

HEOLDDU SOLAR FARM

Environmental Statement

Volume 3, Appendix 4.5: List of Cumulative Developments

**September
2025**

Document Status					
Version	Purpose	Authored	Reviewed	Approved	Date
01	Draft	RPS	Heolddu Solar Park Ltd	RPS	Sept 2025

Approval for issue	
RPS	September 2025

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Prepared by:

RPS

Prepared for:

Heolddu Solar Park Ltd

Contents

1	CUMULATIVE EFFECTS ASSESSMENT ..ERROR! BOOKMARK NOT DEFINED.
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1 LIST OF CUMULATIVE DEVELOPMENTS

1.1 General

- 1.1.1 This document forms Volume 3, Appendix 4.5: List of Cumulative Developments, of the Environmental Statement (ES) prepared for the development of Heolddu Solar Farm (referred to hereafter as ‘the Proposed Development’).
- 1.2 The Applicant submitted a pre-application advice request to Carmarthenshire County Council in December 2024 which included the list of cumulative developments to be agreed.
- 1.3 The following ten cumulative developments have been identified during the EIA process and agreed with Carmarthenshire County Council as appropriate:

Table 1.1: Cumulative Schemes

Cumulative Scheme	Status	Distance (km)	Description
DNS CAS-03094-T7D9G0 – Green GEN Towy Teifi Grid Connection	EIA Scoping Direction issued by PEDW	Approximately 40km north	Overhead Line from the proposed Lan Fawr Energy Park to a proposed new substation near Carmarthen.
DNS CAS-02917-K8D5Z2 – Bryn Cadwgan Energy Park	EIA Scoping Direction issued by PEDW	Approximately 45km north-east	25 wind turbine generators with a maximum tip height of 230 meters, together with associated infrastructure including a new access route, photovoltaic panels and a Battery Energy Storage.
DNS/3260565 – Brynrhyd Solar Farm	Consented but unimplemented	Approximately 20km east	Construction, management, operation and subsequent decommissioning of a ground mounted solar farm with a maximum design capacity of up to 30MWp (megawatts peak).
DNS/3227364 – Tycroes Solar Farm	Consented but unimplemented	Approximately 18km east	Construction, management, operation and subsequent decommissioning of a ground mounted solar farm

Cumulative Scheme	Status	Distance (km)	Description
			with a maximum design capacity of up to 40MW (megawatts), including proposed cable route.
DNS/3213164 – Llangennech Solar Farm	Consented but unimplemented	Approximately 15km south-east	Construction, management, operation and subsequent decommissioning of a ground mounted solar farm with a maximum design capacity of up to 38MWp.
S/36948 – Pentre Awel Wellbeing and Life Sciences Village	Phase 1 under construction	Approximately 15km south-east	Wellness and life science development including: community health hub of up to 16,500 sqm (use classes; D1, B1 (b) and C2). Life science business centre of up to 10,000 sqm (use class B1 (b) and B2). Wellness hub of up to 11,000 sqm (use class D2). Assisted of up to 370 beds/units and 7,500 sqm (use classes; C2, C3 (a) and C3 (b)). Associated outdoor recreation area, leisure and therapy spaces; landscaping and public realm; energy and utilities infrastructure; access and parking.
Nantycaws Circular Economy Park	Pre-Application Stage	Approximately 9.5km north-east	New Resource Recycling Facility (RRF) to process up to 80,000 tons of recyclable materials across Carmarthenshire and South West Wales.
Carmarthen West Strategic Site	Part-implemented adopted LDP allocations and draft RLDP allocation	Approximately 10km north-east	Mix of uses, including employment, community facilities, amenity and an allowance of 700 dwellings.

Cumulative Scheme	Status	Distance (km)	Description
Towy-Usk connection route	Pre-Application Stage	Approximately 3km north-east	New 132kV electricity connection to link Bute Energy's Nant Mithil Energy Park to the national grid near Llandyfaelog, Carmarthenshire.
Llandyfaelog Substation	Pre-Application Stage	Approximately 3km to the north-east	Proposed 400kV substation at Llandyfaelog.

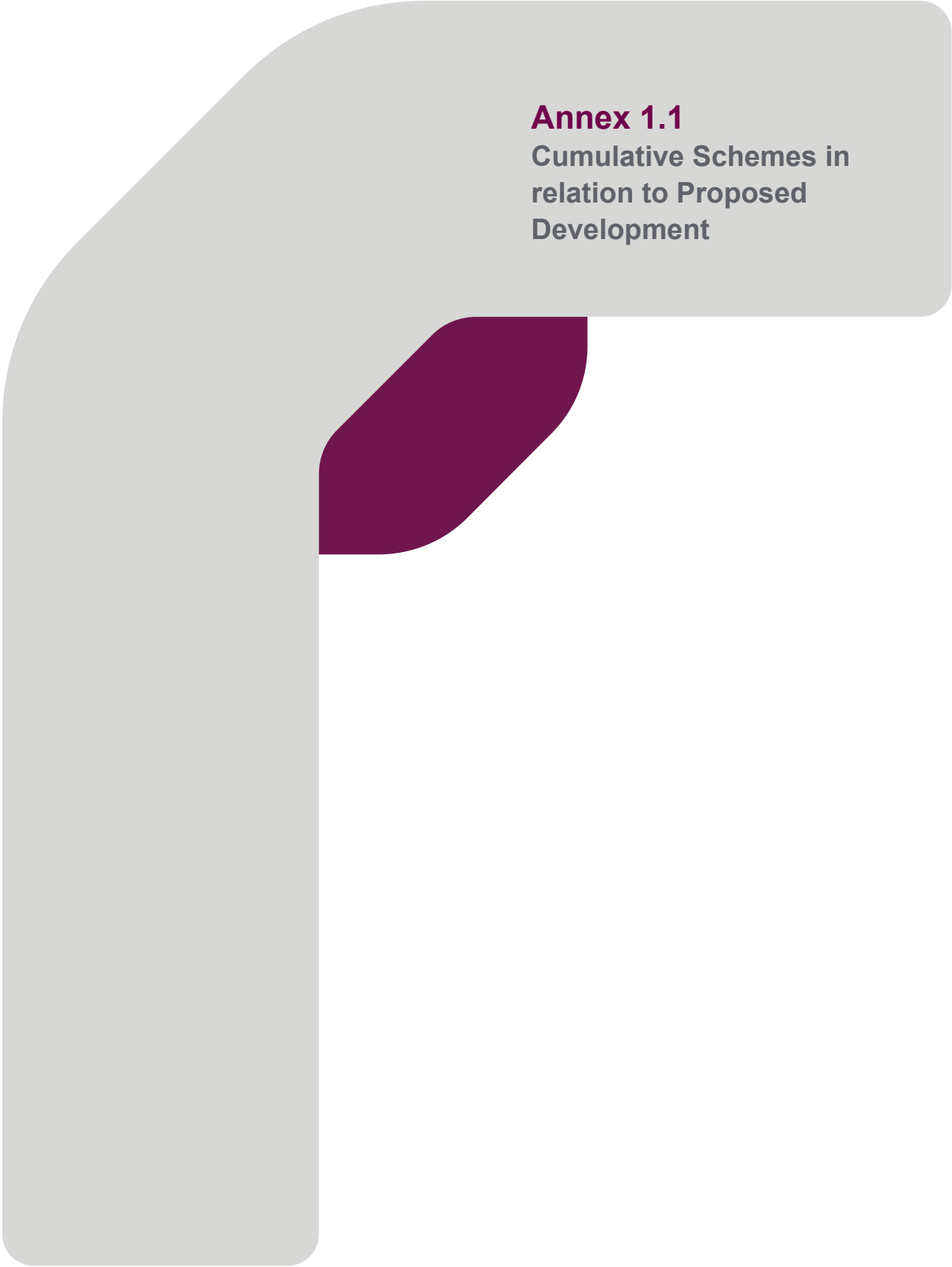
- 1.4 Annex 1.1 illustrates the above schemes in relation to the location of Heolddu Solar Farm.
- 1.5 Annexes 1.2 – 1.11 include relevant site location plans of the cumulative developments listed above.

Timeline

- 1.6 The table below sets out an indicative timeline for the implementation of the identified cumulative schemes based on information available. An assessment of the likely overlap of construction / operation periods of the cumulative developments identified and Heolddu Solar Farm are also set out in the table below.

Project	Timeline for Implementation
Green GEN Towy Teifi Grid Connection	The proposal is currently at scoping stage, with an EIA Scoping Direction issued by PEDW. Green GEN Cymru expect to undergo statutory Pre-Application Consultation in 2026 and submit the application to PEDW later that year.
Bryn Cadwgan Energy Park	EIA Scoping Direction issued by PEDW. The proposal is currently undergoing statutory pre-application consultation which will conclude in late September and the applicant aims to submit the application by the end of 2025.
Brynrhyd Solar Farm	This application was granted permission by Welsh Ministers in November 2022 but currently remains unimplemented.

Tycroes Solar Farm	This application was granted permission by Welsh Ministers in January 2022 but currently remains unimplemented.
Llangennech Solar Farm	This application was granted permission by Welsh Ministers in July 2021 but currently remains unimplemented.
Pentre Awel Wellbeing and Life Sciences Village	<p>Outline planning for the site was granted permission in August 2019 and reserved matters for zone 1 approved in June 2022.</p> <p>Phase 1 of the scheme is currently under construction. There are a further 3 zones to be implemented.</p>
Nantycaws Circular Economy Park	This scheme is currently at Pre-Application stage. It is unclear when a planning application is intended to be submitted.
Carmarthen West Strategic Site	West Carmarthen is an allocated strategic site within the 2006-2021 Local Development Plan (LDP). The site is also currently retained as an allocation within the draft 2018-2033 RLDP. It is therefore likely that this site will continue to be built out within the next plan period.
Towy-Usk connection route	The proposal is currently at Pre-Application Stage. The applicant has scheduled statutory pre-application consultation for late 2025.
Llandyfaelog Substation	The proposal is currently at Pre-Application Stage. National Grid expect to submit the application in February 2026.

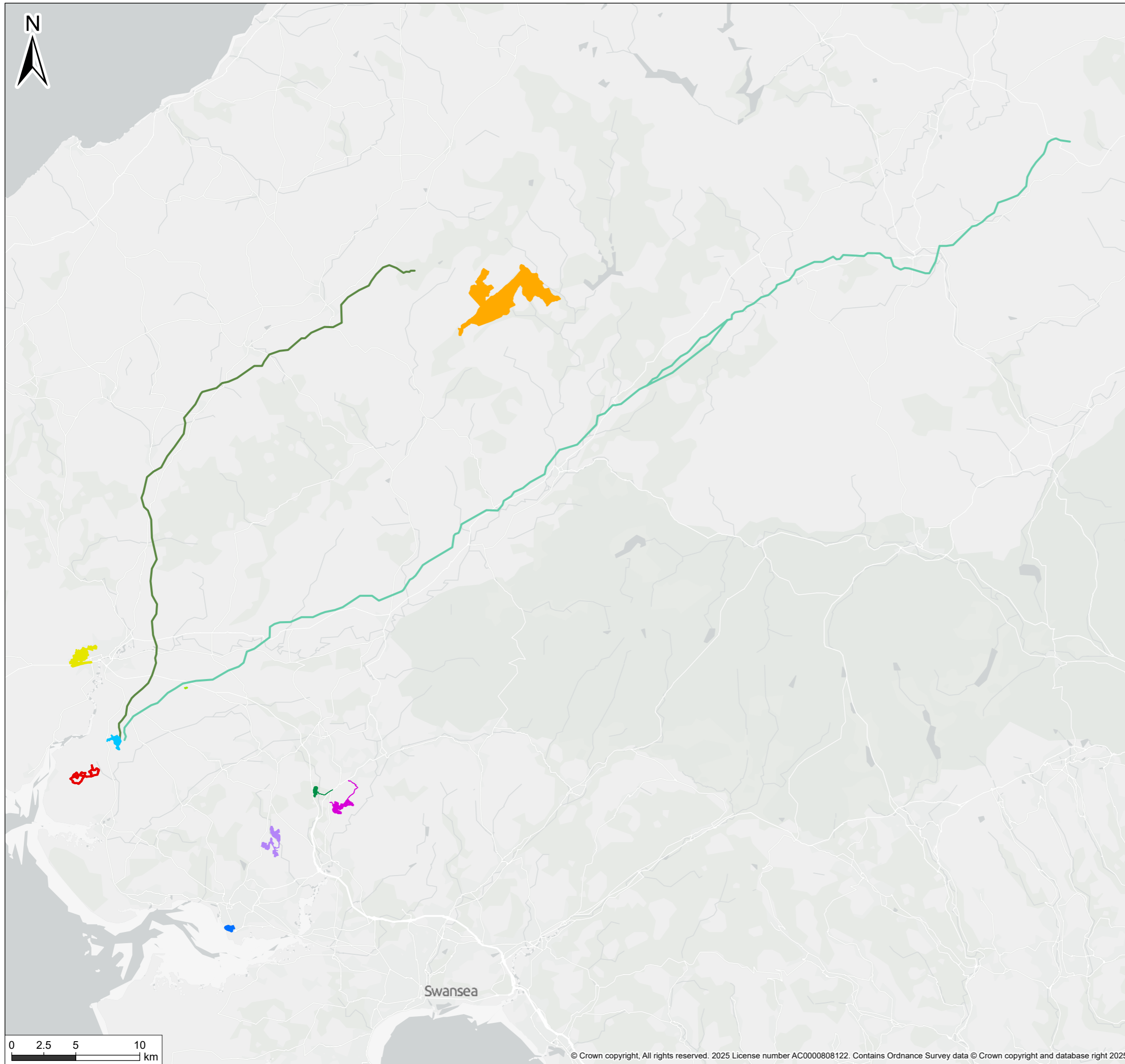


Annex 1.1
Cumulative Schemes in
relation to Proposed
Development



Legend

- Site
- Bryn Cadwgan Energy Park
- Brynrhyd Solar Farm
- Carmarthen West Strategic Site
- Llangennech Solar Farm
- Nantycaws Circular Economy Park
- Pentre Awel Wellbeing and Life Sciences Village
- Tycroes Solar Farm
- Llandyfaelog Substation
- Green Gen Towy Teifi
- Green Gen Towy Usk



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Project Name **Heolddu Solar Farm**

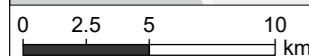
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Figure Number **1**

Drawing Number **NDIP00319-0009-02**

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Rev	Date	Status	By	CB

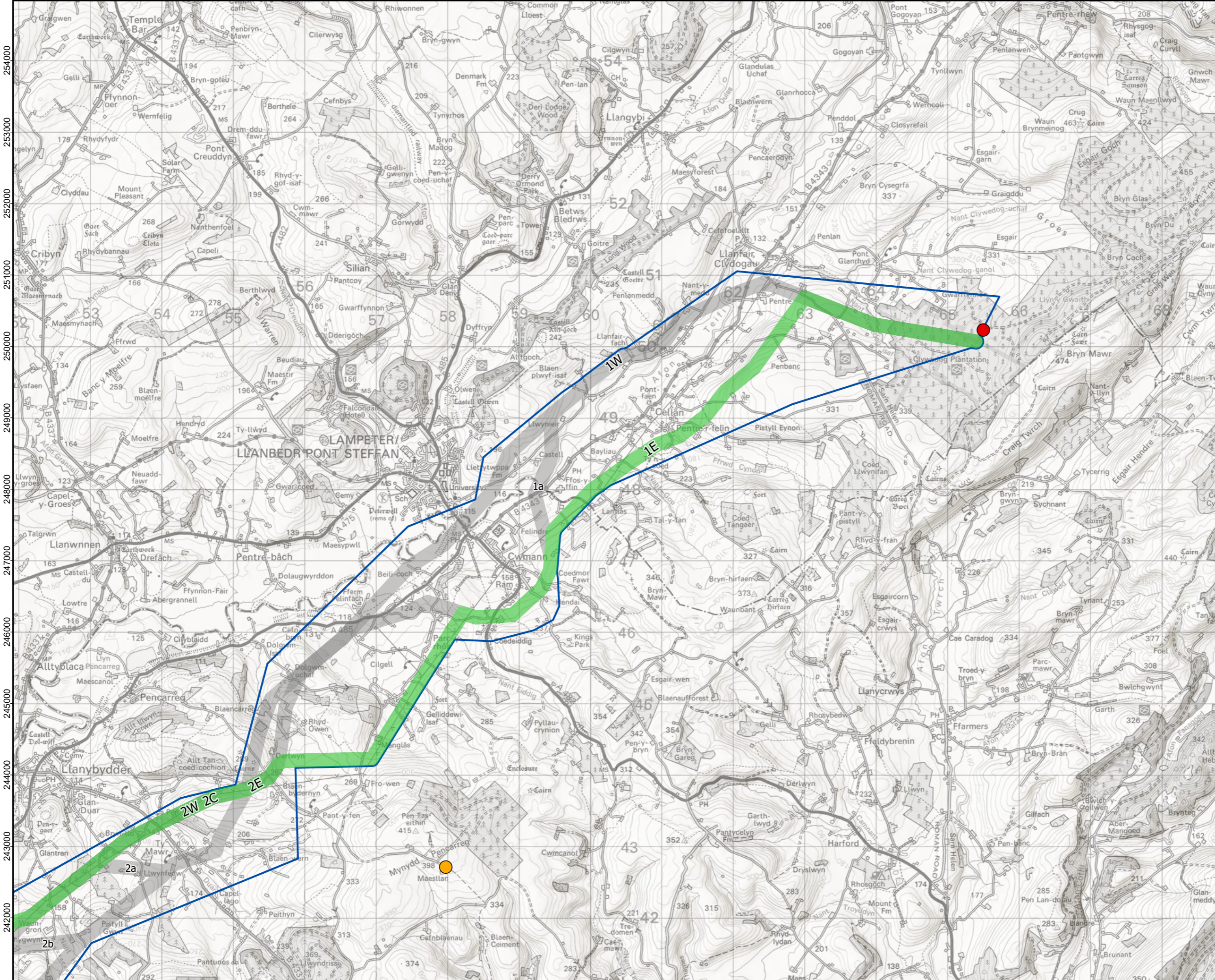
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Annex 1.2
Green GEN Towy Teifi Grid
Connection

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- Legend:**
- Indicative location of grid connection to Lan Fawr Energy Park within the energy park site boundary
 - Nant Ceiment Energy Park
 - Preferred Corridor
 - Preferred Route
 - Other Route Options

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Meter



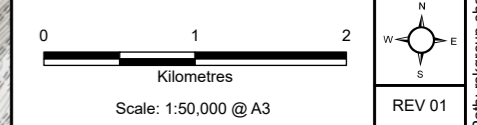
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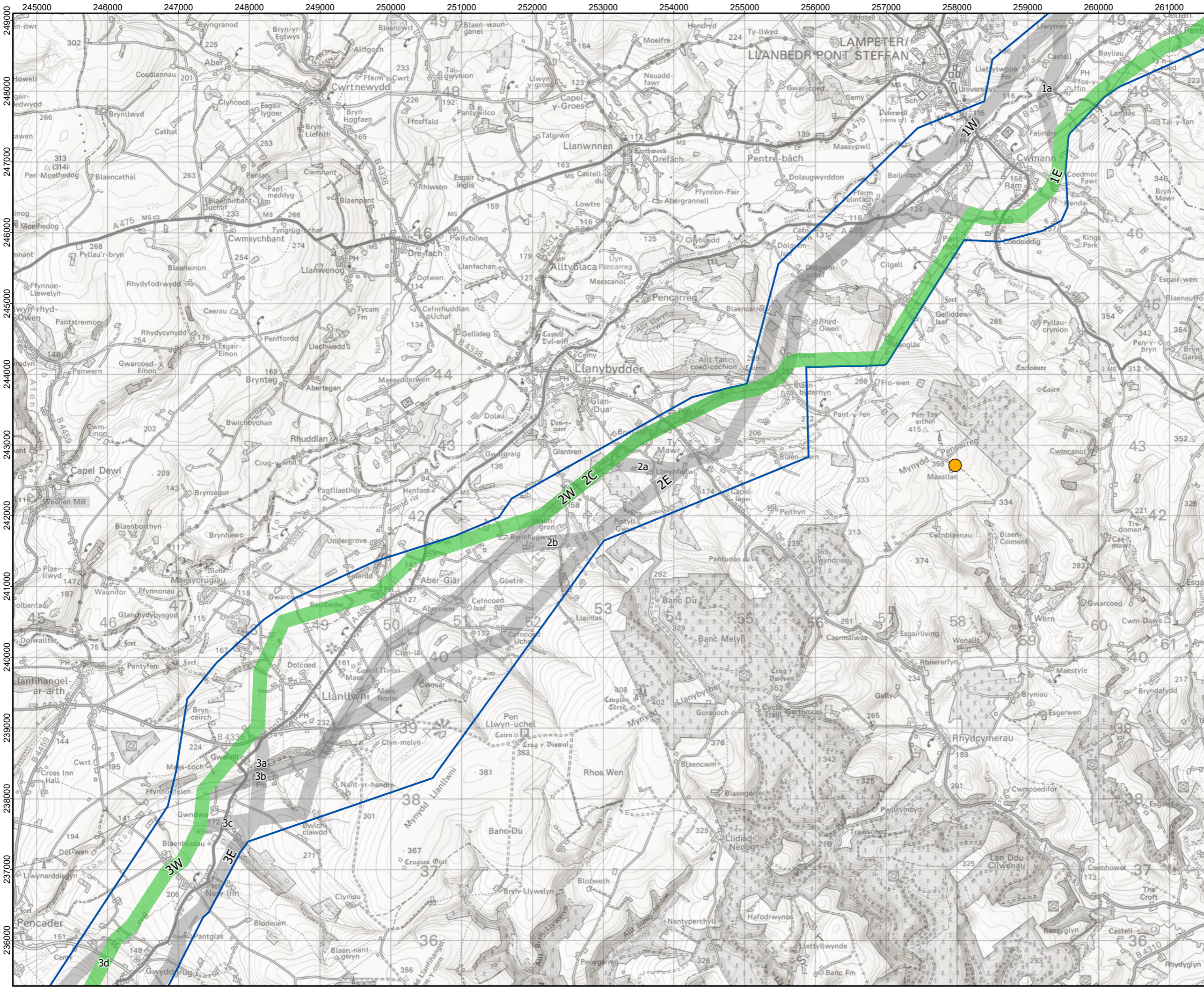
Green GEN Towy Teifi

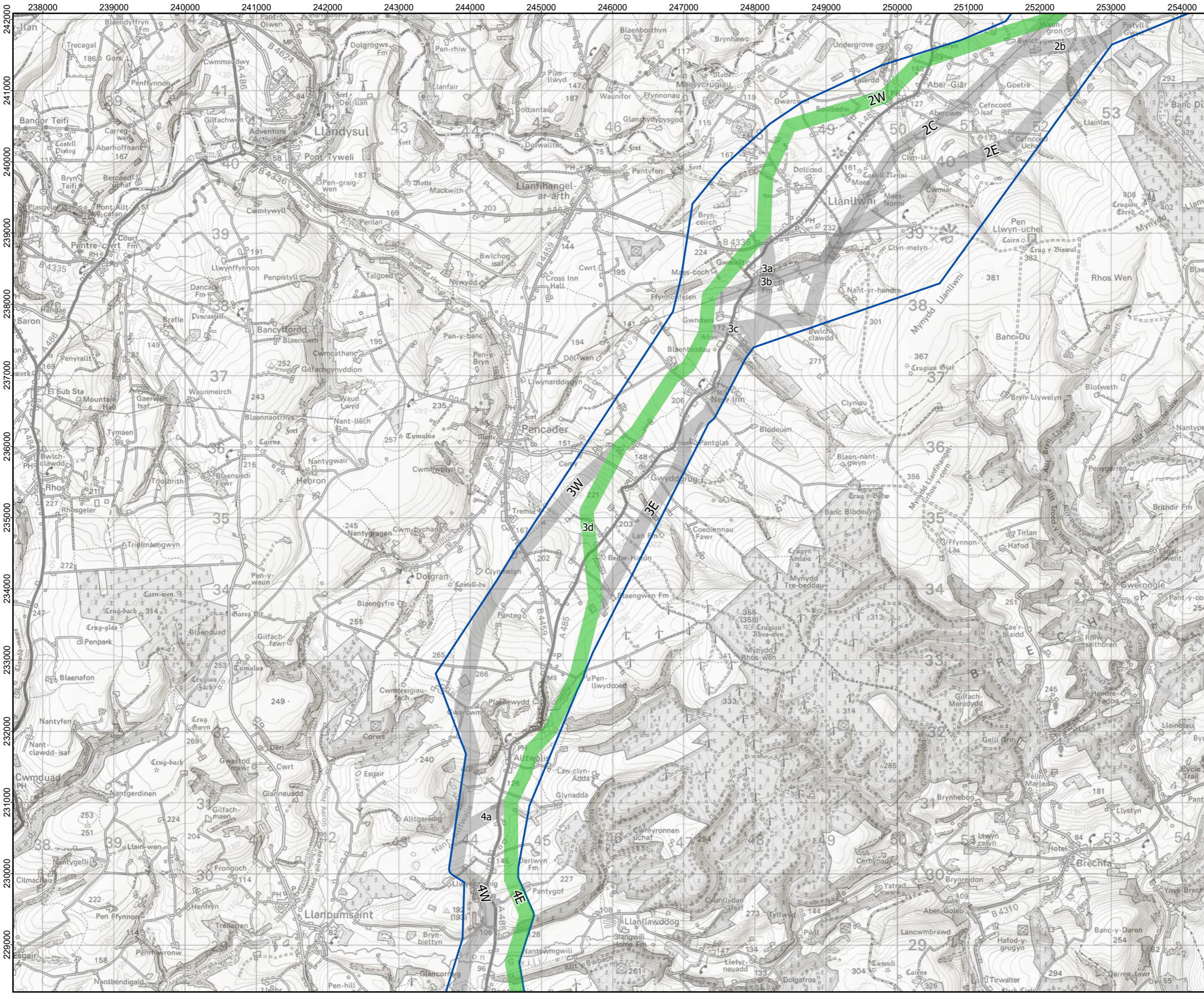


TITLE: Preferred Route Section 1
 (Sheet 1 of 6)

ID:P663927_RCD_Fig_5.11_A3L







Legend:

- ▬ Preferred Corridor
- ▬ Preferred Route
- ▬ Other Route Options

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Meter



Rev	Date	Description	Drn	Chk	App
01	09/01/2024	Second Draft	PS	JR	JR
00	26/10/2023	First Draft	PS	KB	KB

Green GEN Towy Teifi

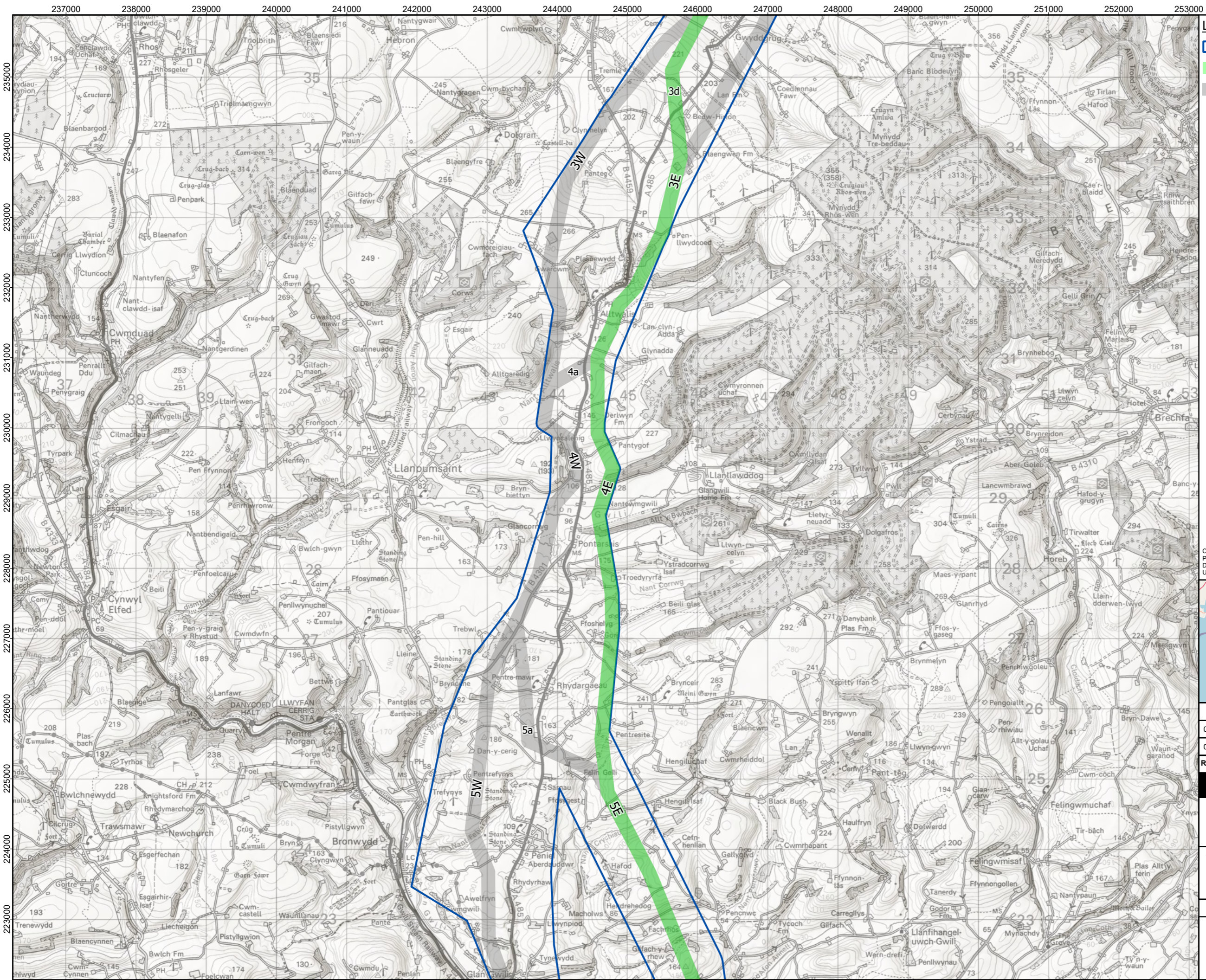
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(Sheet 3 of 6)**

ID:P663927_RCD_Fig_5.11_A3L

Kilometres

Scale: 1:50,000 @ A3

REV 01



- Legend:**
- ▬ Preferred Corridor
 - ▬ Preferred Route
 - Other Route Options

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Meter



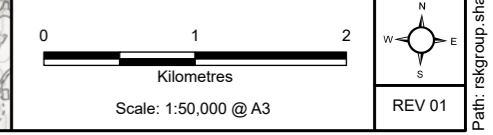
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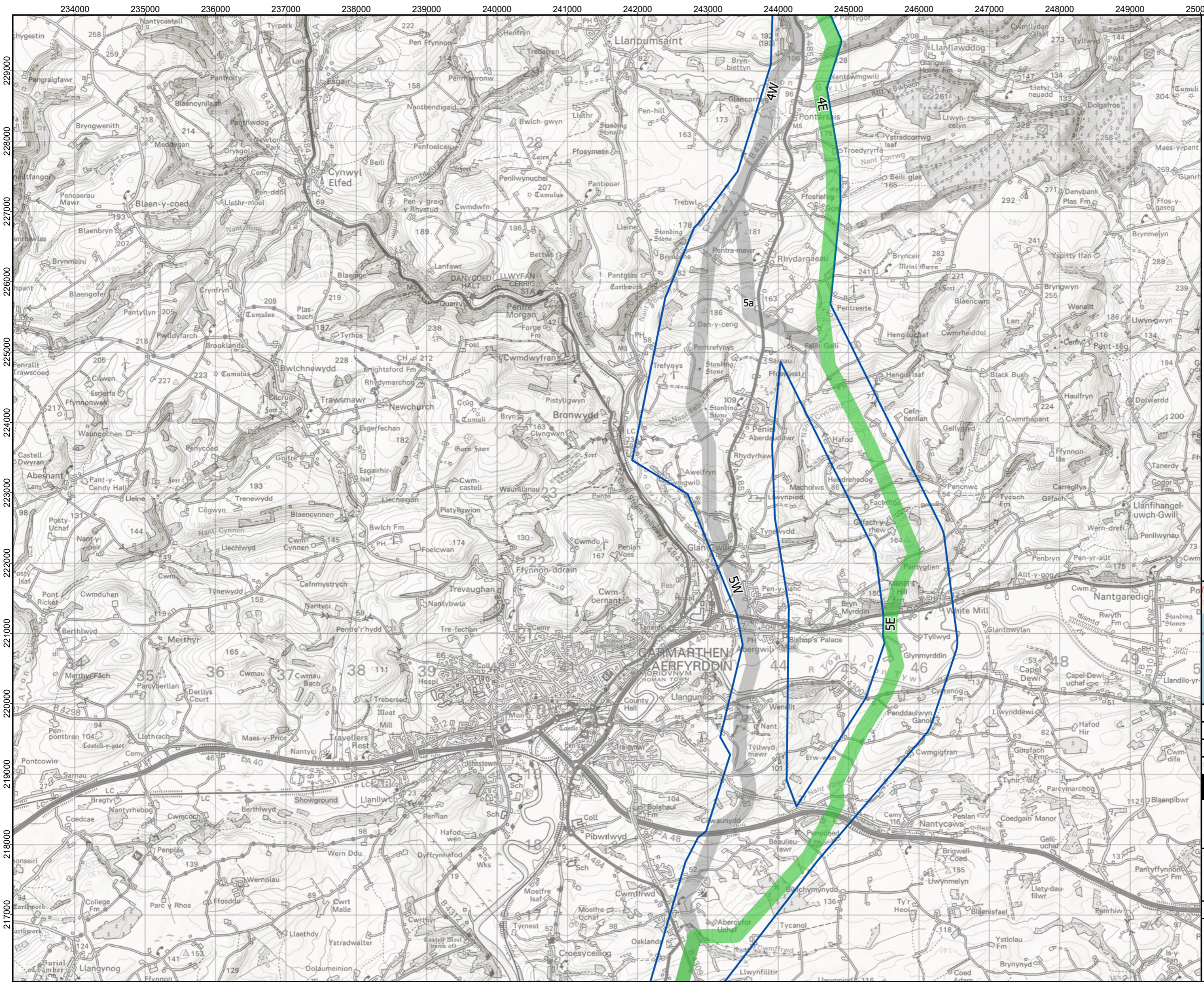
Green GEN Towy Teifi



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 (Sheet 4 of 6)

ID:P663927_RCD_Fig_5.11_A3L





- Legend:**
- Preferred Corridor
 - Preferred Route
 - Other Route Options

Coordinate System: British National Grid
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 Datum: OSGB 1936
 Units: Meter



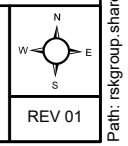
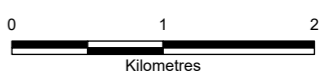
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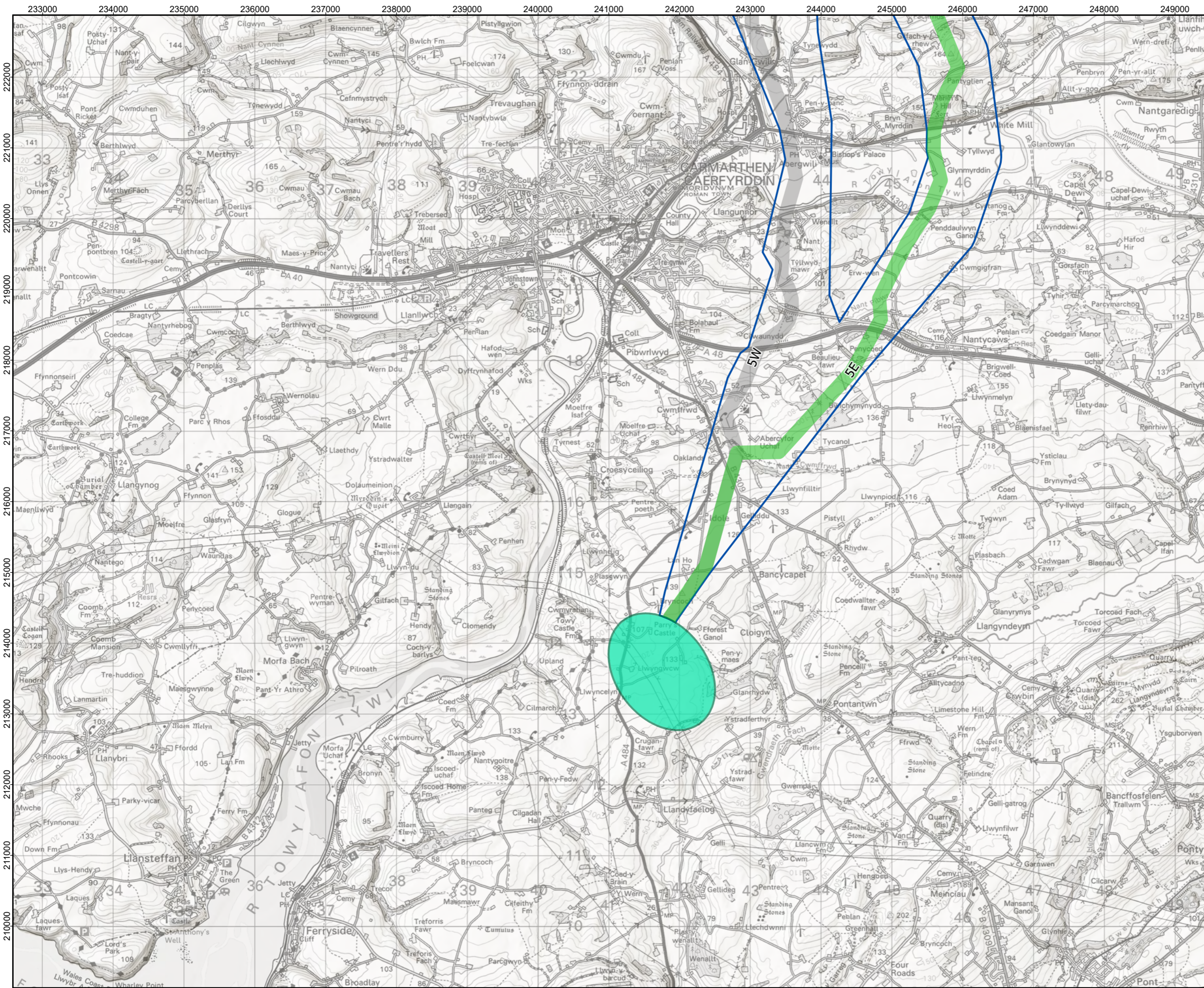
Green GEN Towy Teifi



TITLE: Preferred Route Section 5
(North) (Sheet 5 of 6)

ID:P663927_RCD_Fig_5.11_A3L





- Legend:**
- Substation Siting Area
 - Preferred Corridor
 - Preferred Route
 - Other Route Options

Coordinate System: British National Grid
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 Datum: OSGB 1936
 Units: Meter



Rev	Date	Description	Drn	Chk	App
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Green GEN Towy Teifi

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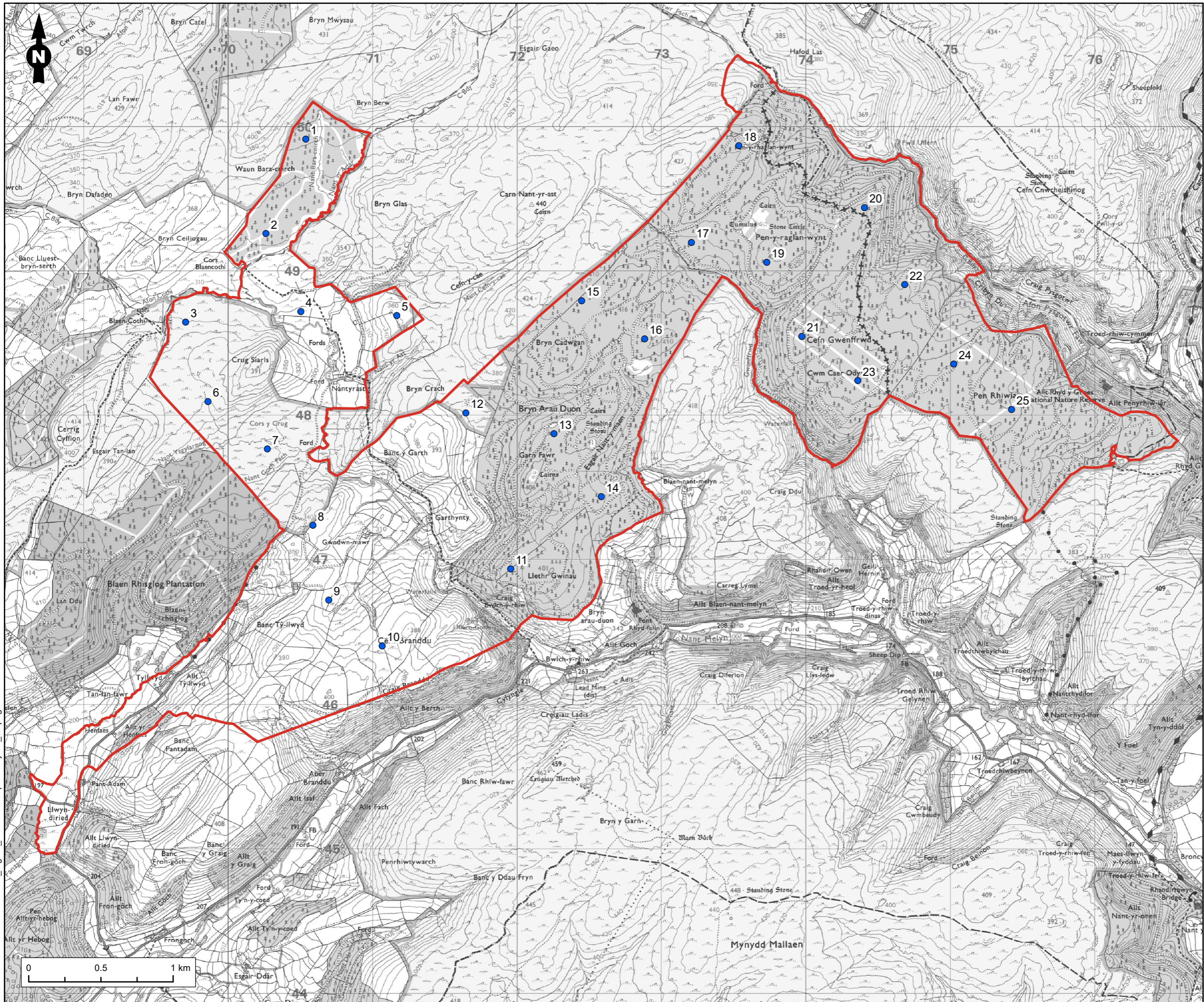
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Annex 1.3
Bryn Cadwgan Energy Park



Legend

- Site Boundary
- Proposed Wind Turbines

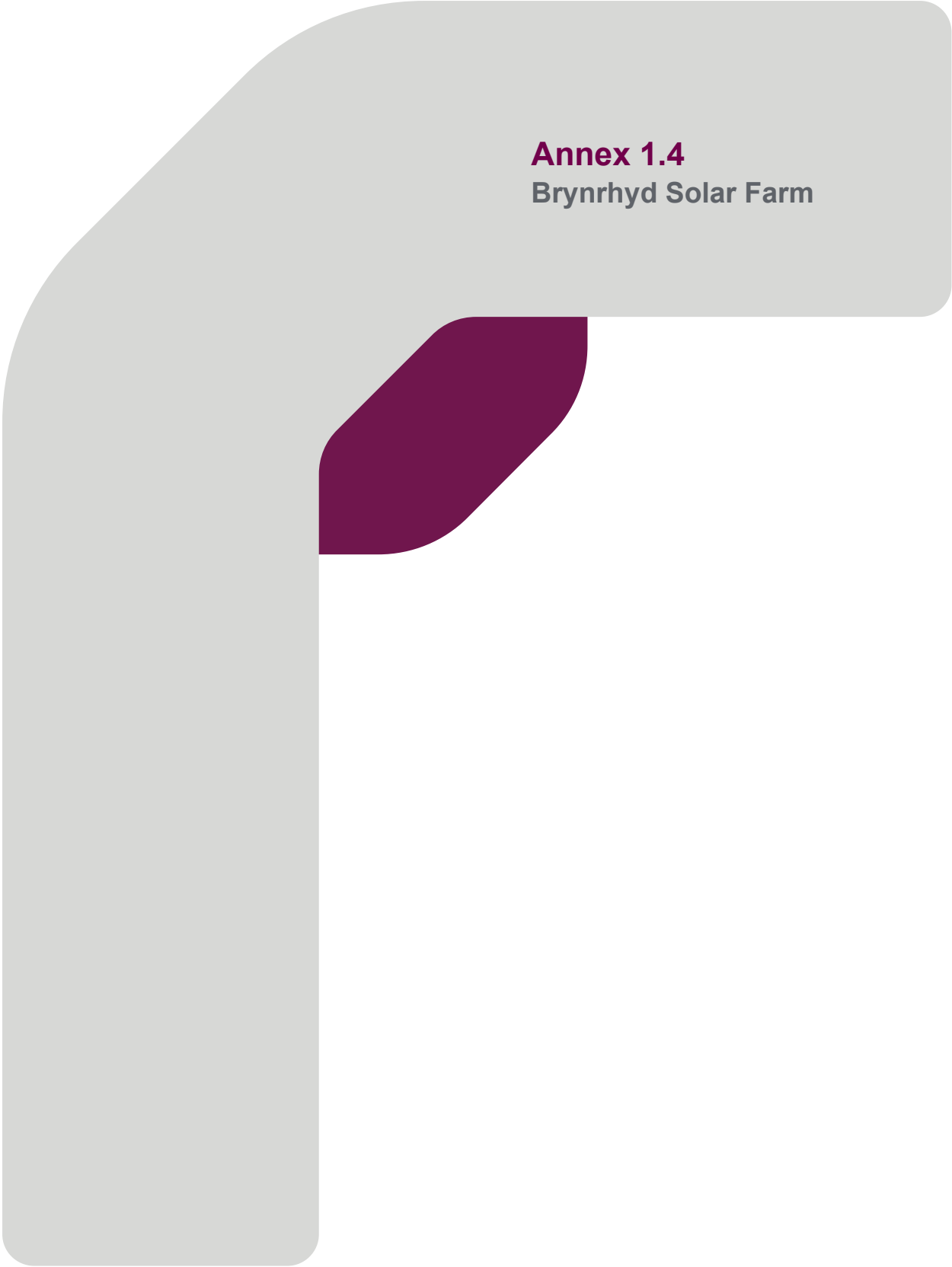
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Figure 1.2: Indicative Proposed Development Layout

Project Name
Bryn Cadwgan Energy Park

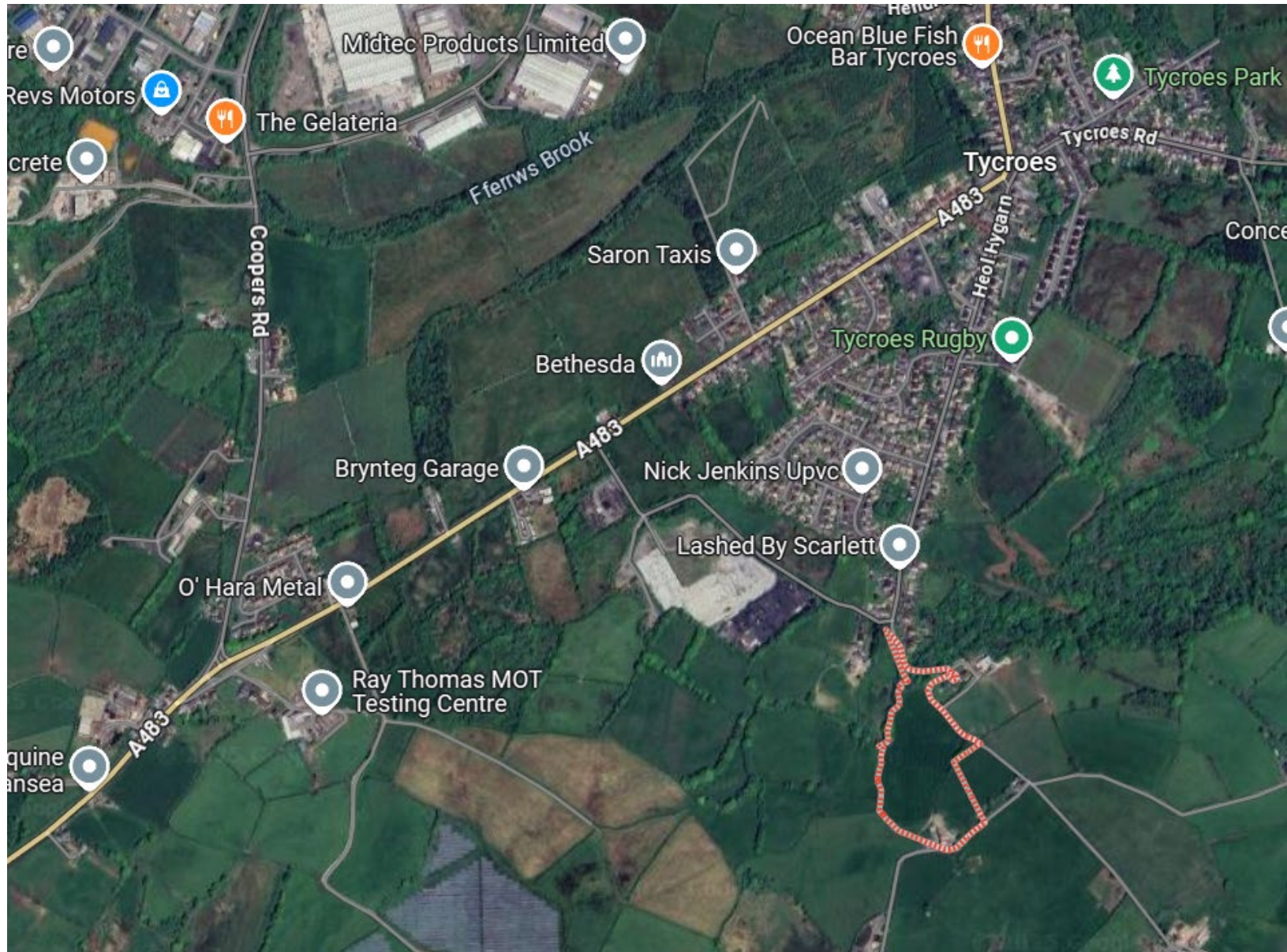
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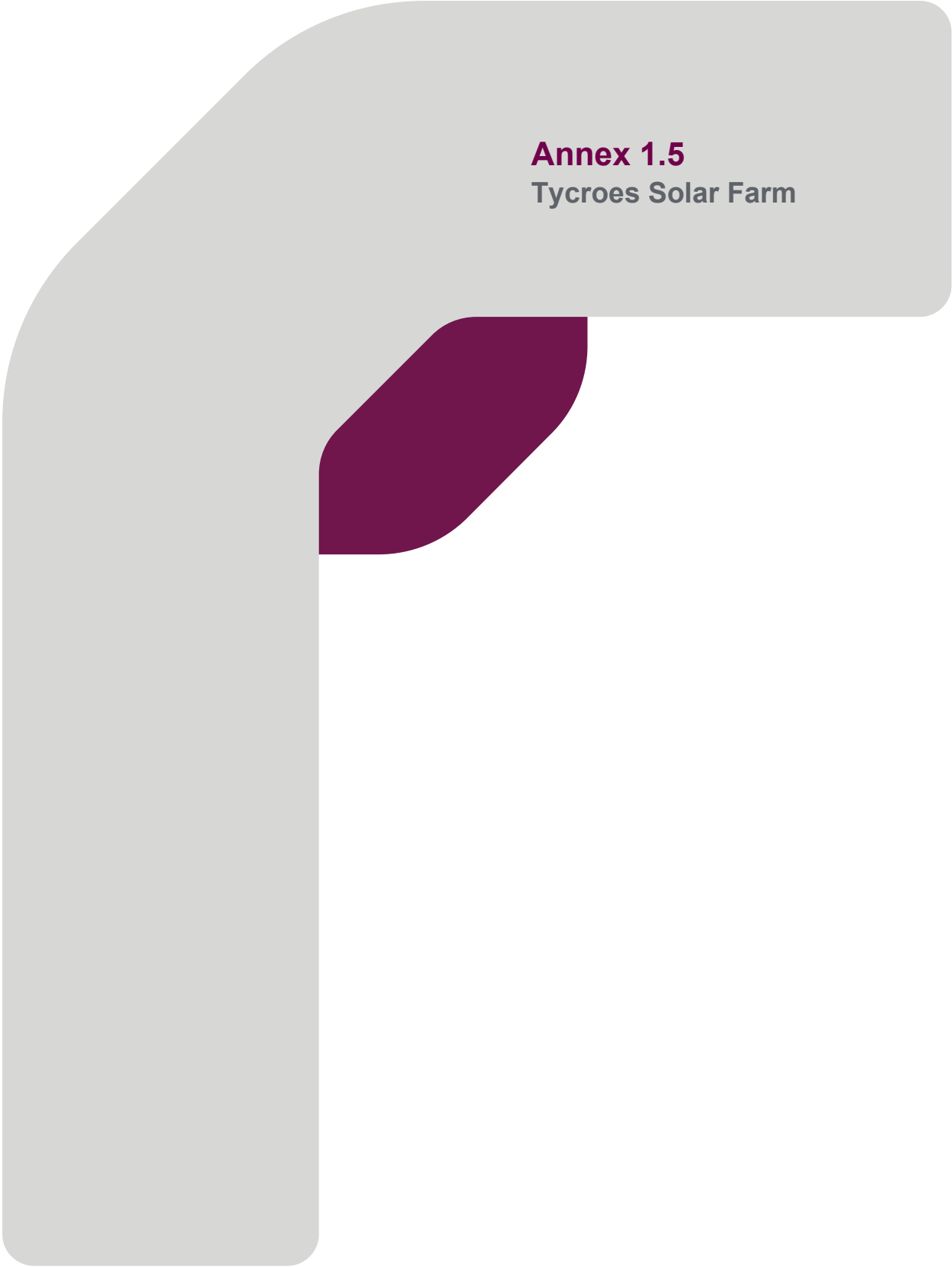
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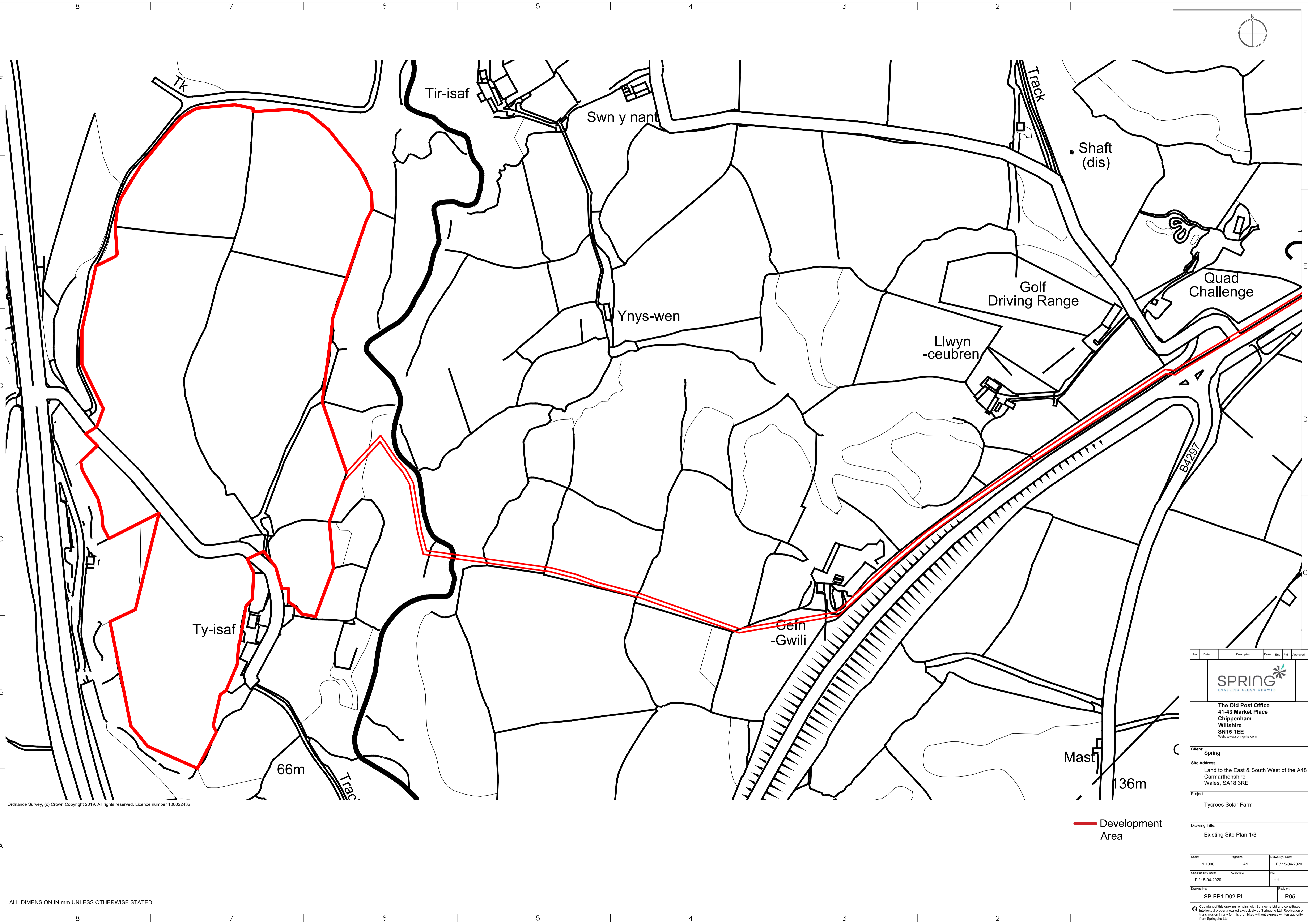


Annex 1.4
Brynryd Solar Farm





Annex 1.5
Tycroes Solar Farm

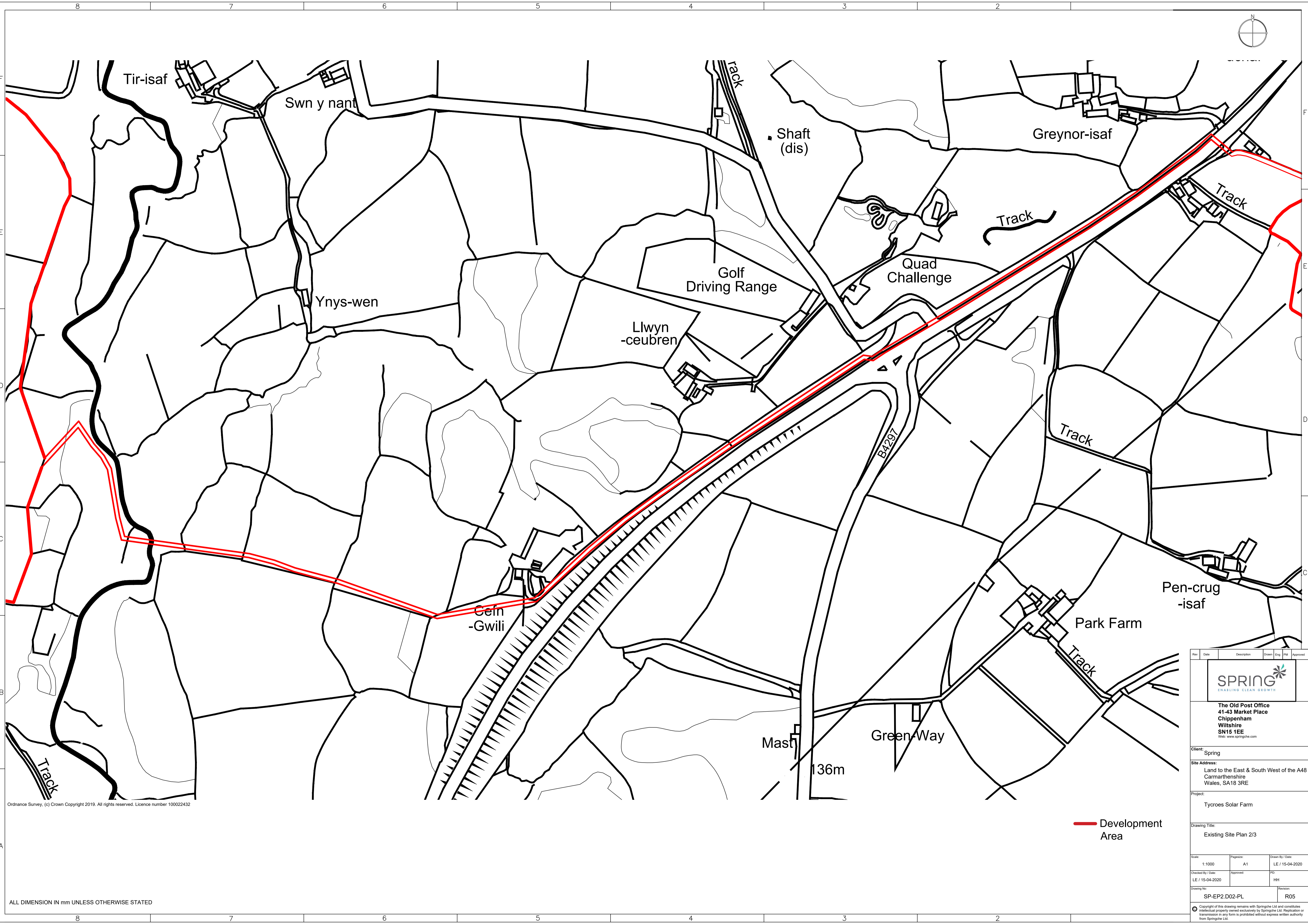


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Client: Spring						
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Project: Tycroes Solar Farm						
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Checked By / Date:	LE / 15-04-2020	Approved:	PD		HH	
Drawing No:	SP-EP1.D02-PL	Revision:	R05			
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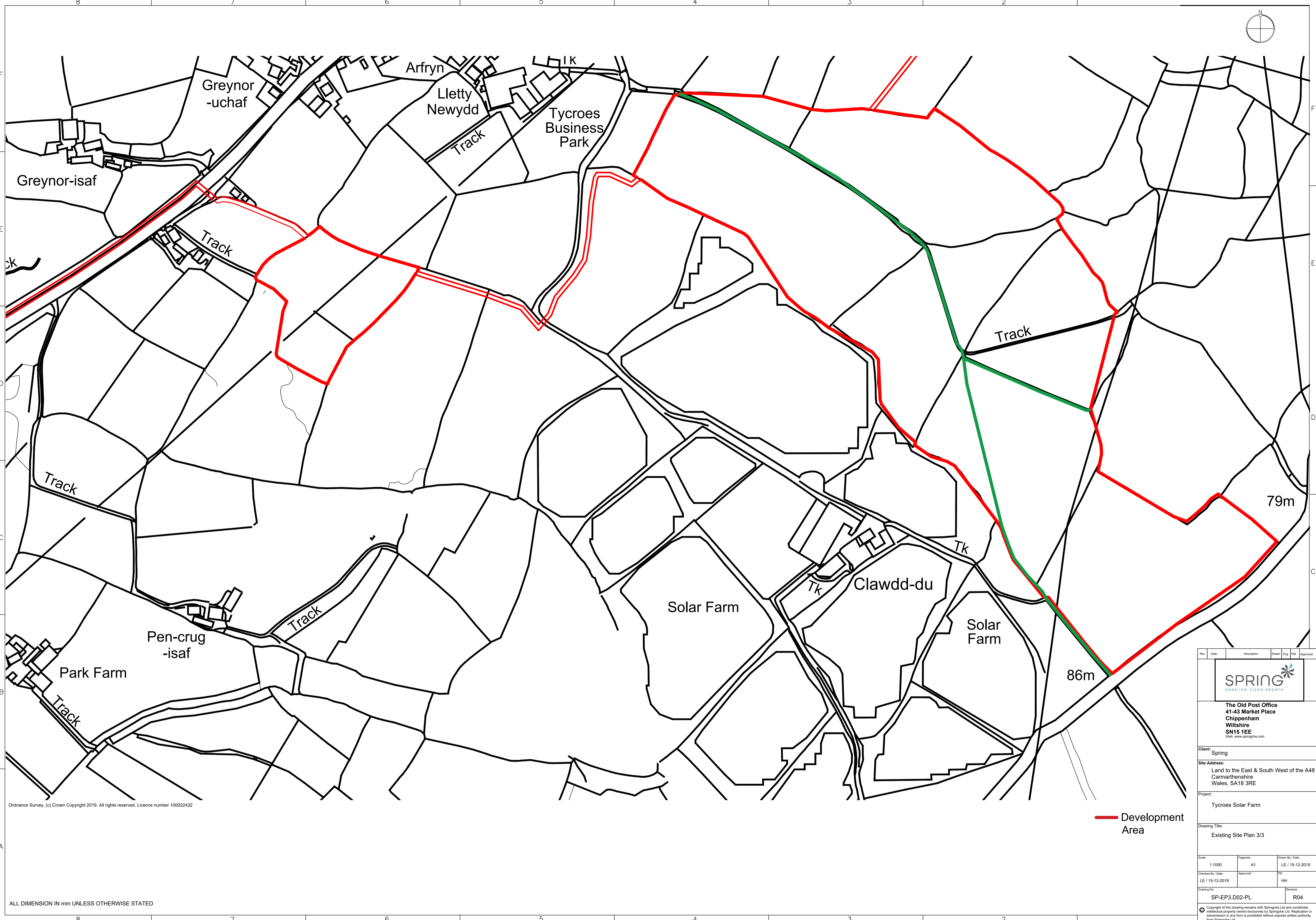
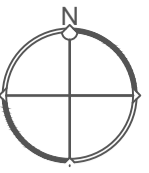


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Project: Tycroes Solar Farm					
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Checked By / Date: LE / 15-04-2020	Approved: HH				
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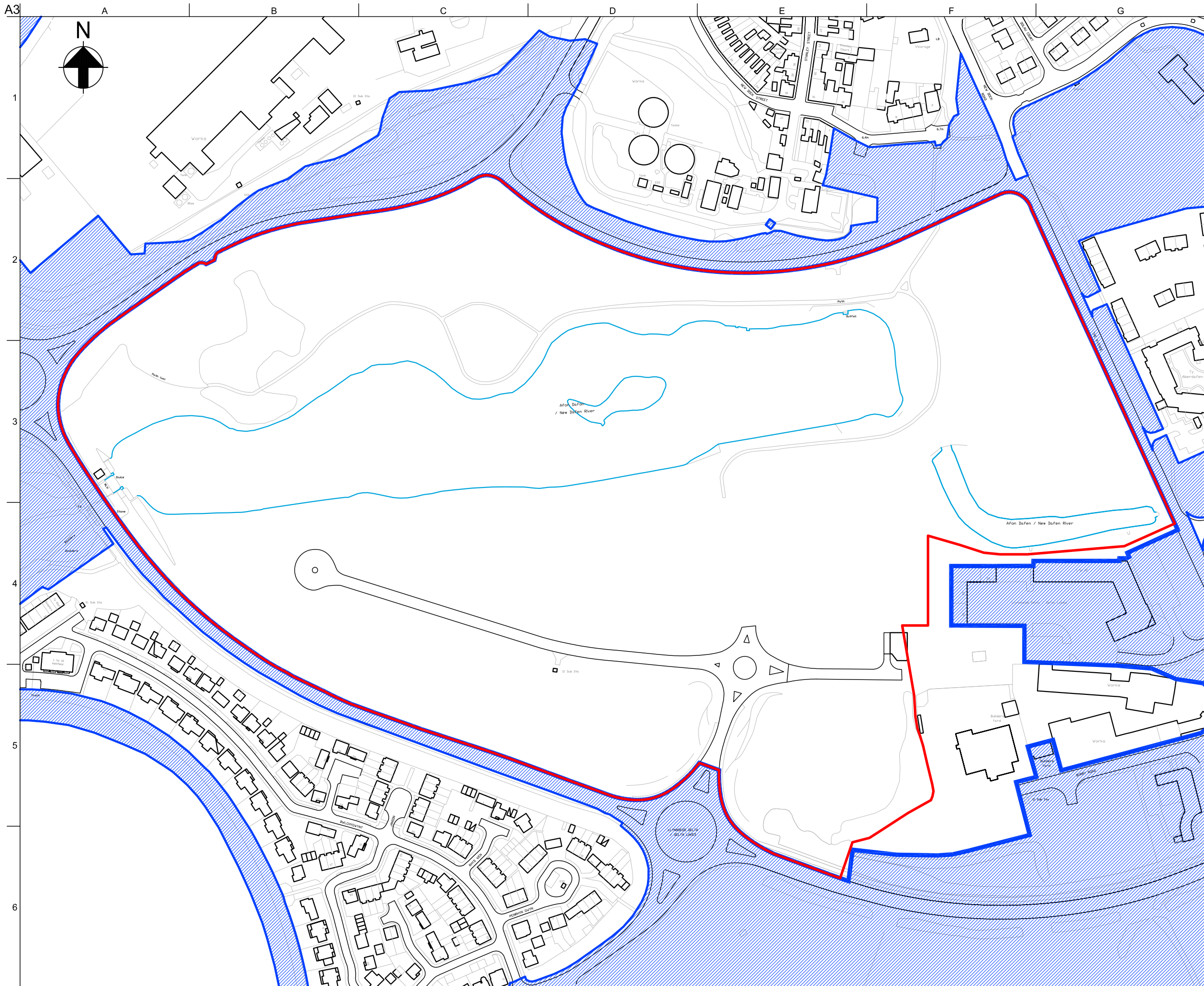
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Annex 1.6
Llangennech Solar Farm



Annex 1.7
Pentre Awel Wellbeing and
Life Sciences Village



- Site boundary
- Other land under the ownership of the applicant

02	24/01/18	EP	LP	DB
Issue	Date	By	Chkd	Appd

ARUP
 4 Pierhead St, Capital Waterside
 Cardiff, CF10 4QP
 T +44(0)29 20473727 F +44(0)29 20472277
 www.arup.com

Client
Carmarthenshire County Council

Job Title
Llanelli Wellness & Lifescience Village


Site Location Plan

Scale at A3 1:2500

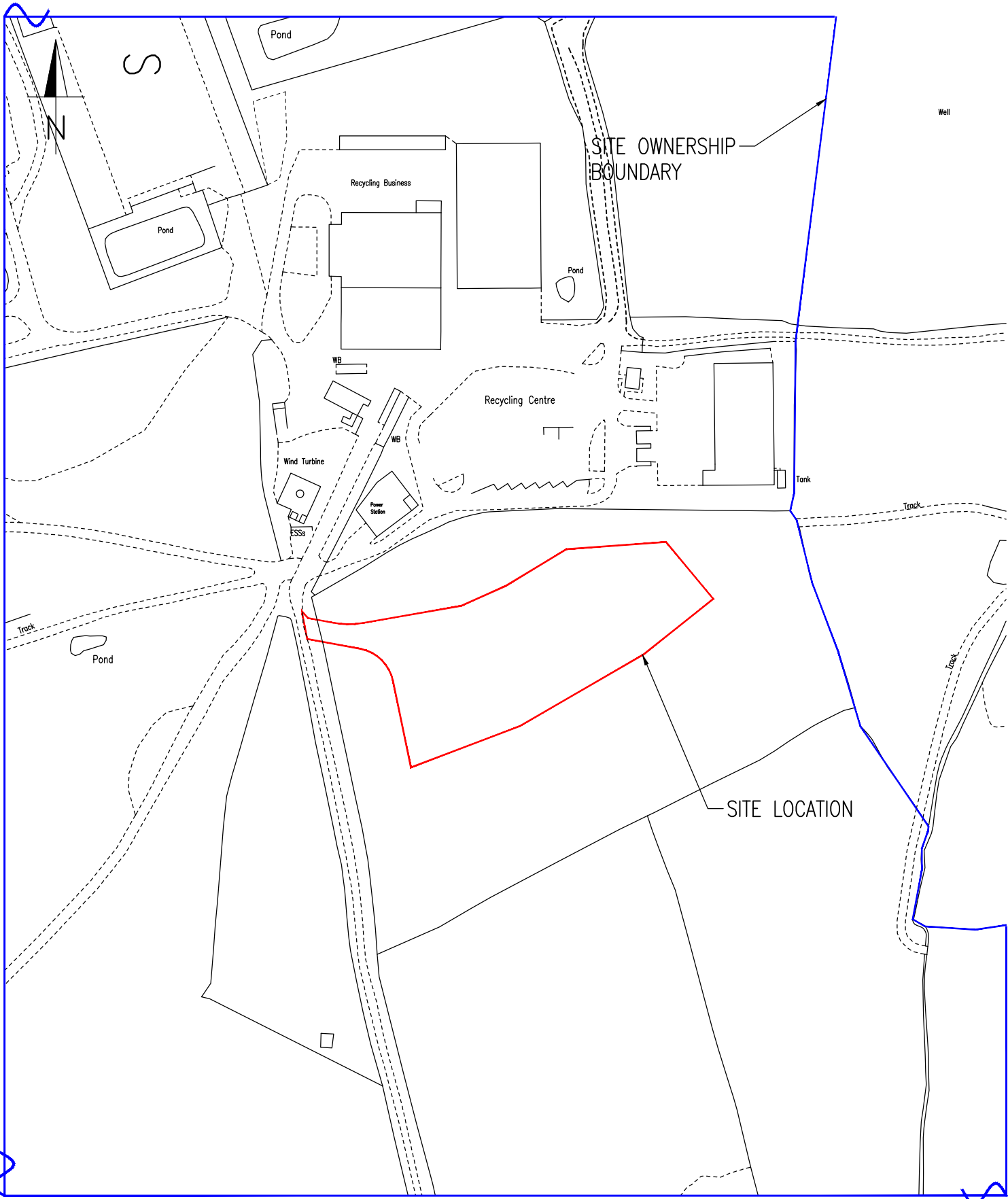
Discipline **Planning**

Job No 248632-00	Drawing Status For Planning
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Drawing No P-01A	Issue 02
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Annex 1.8
Nantycaws Circular
Economy Park



GRID REF: 247344.44, 217423.33



Structural & Civil Engineering Consultants

First Floor
7 St James Crescent
Swansea
SA1 6DZ

Telephone +44 1792 473 182
e-mail admin@cb3consult.co.uk
web www.cb3consult.co.uk

Project
**NANTYCAWS DEPOT
ENABLING WORKS**

Drawing Title
SITE LOCATION PLAN

Client
CWM ENVIROMENTAL

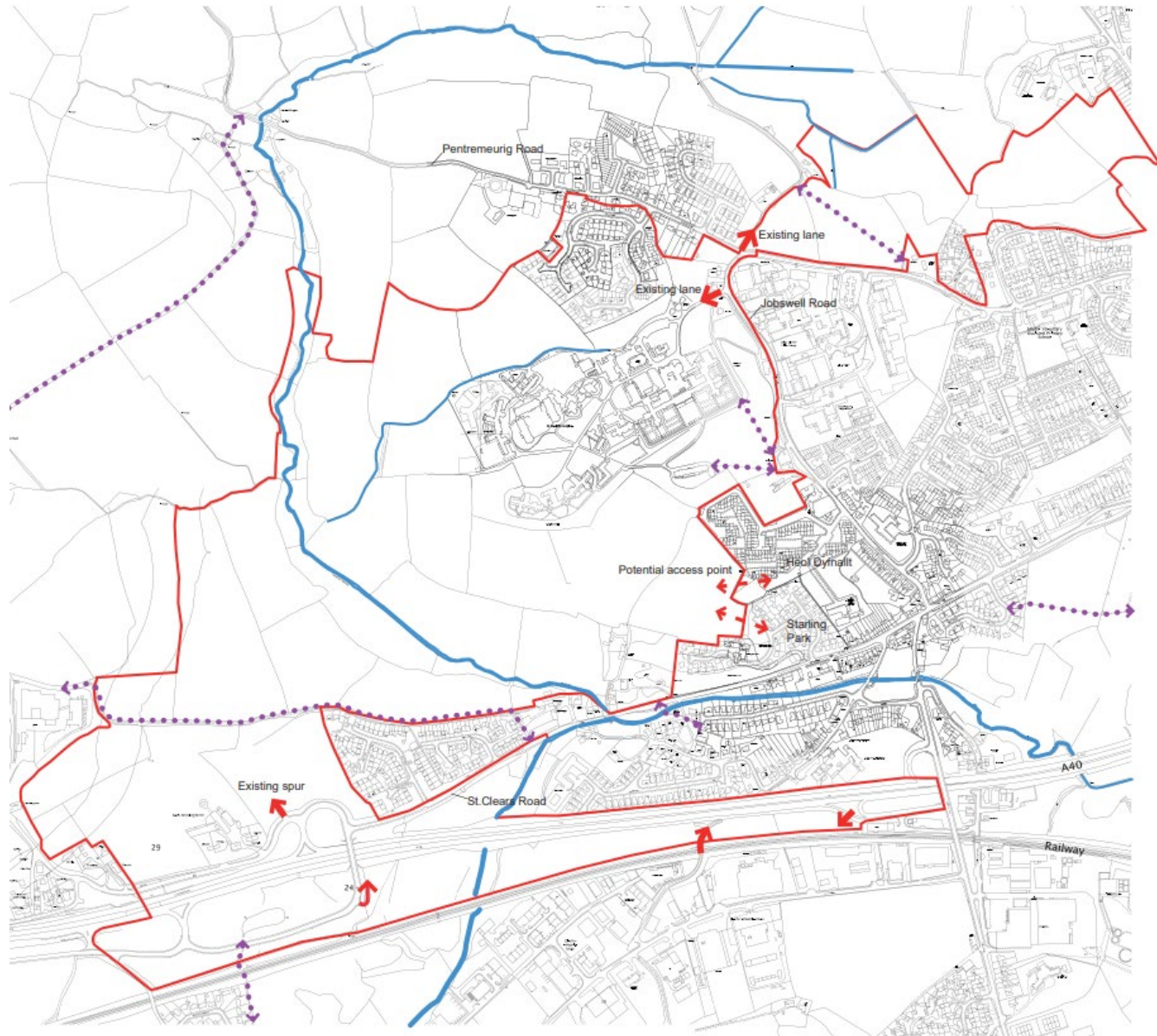
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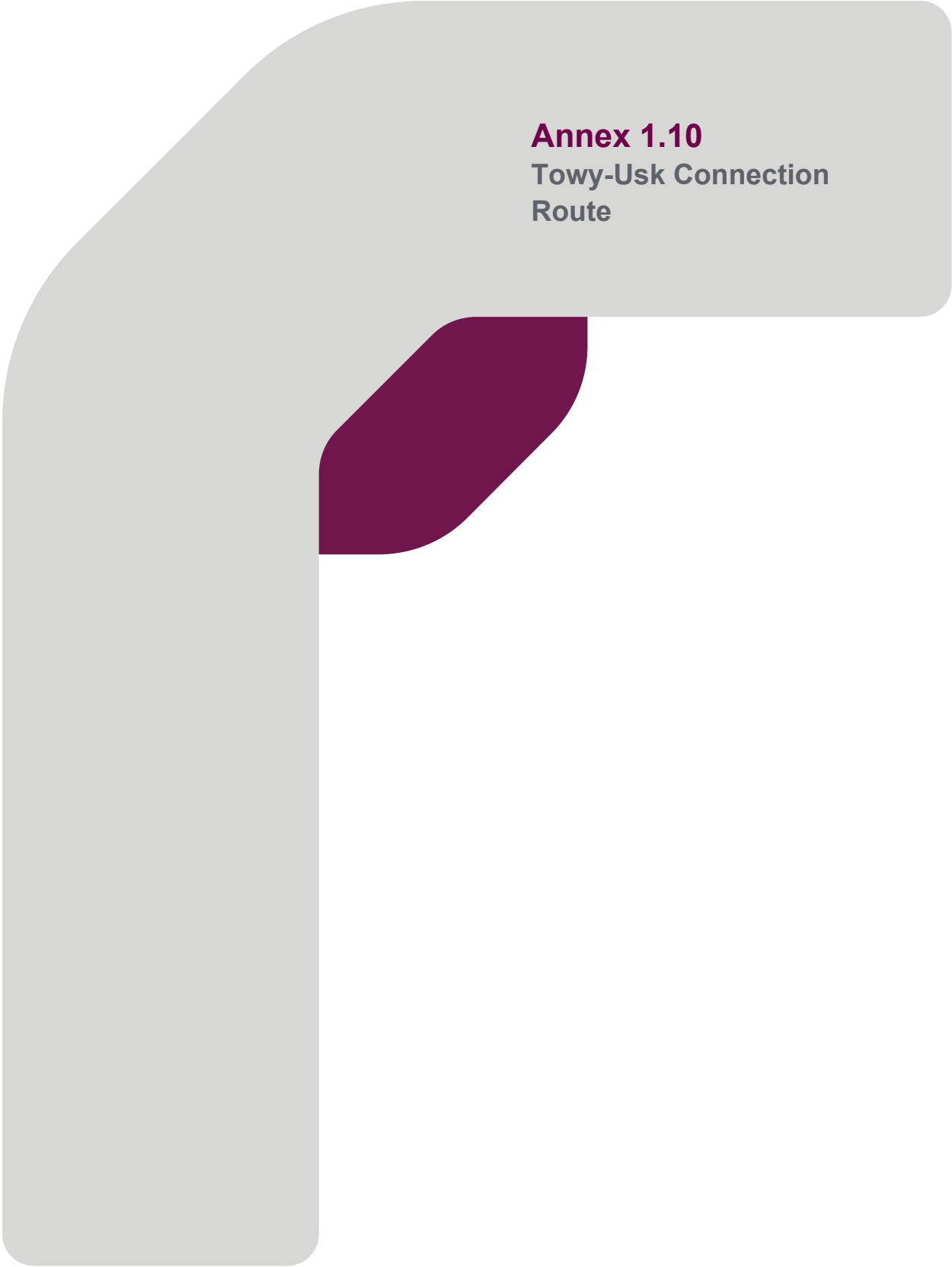
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Annex 1.9
Carmarthen West Strategic
Site





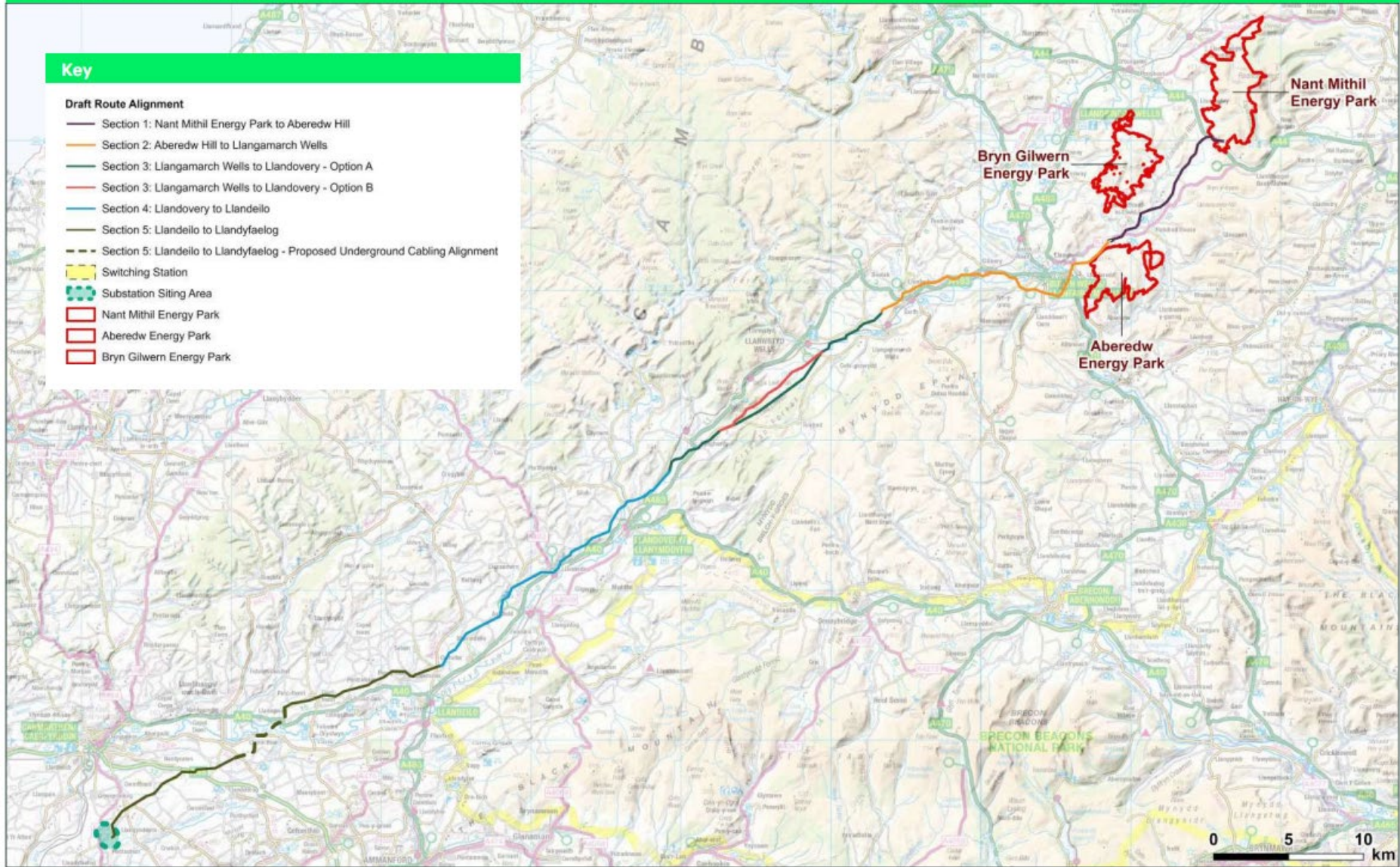
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Towy-Usk Connection
Route


Towy Usk draft route alignment

Key

Draft Route Alignment

- Section 1: Nant Mithil Energy Park to Aberedw Hill
 - Section 2: Aberedw Hill to Llangamarch Wells
 - Section 3: Llangamarch Wells to Llandovery - Option A
 - Section 3: Llangamarch Wells to Llandovery - Option B
 - Section 4: Llandovery to Llandello
 - Section 5: Llandello to Llandyfaelog
 - Section 5: Llandello to Llandyfaelog - Proposed Underground Cabling Alignment
- Switching Station
- Substation Siting Area
- Nant Mithil Energy Park
- Aberedw Energy Park
- Bryn Gilwern Energy Park

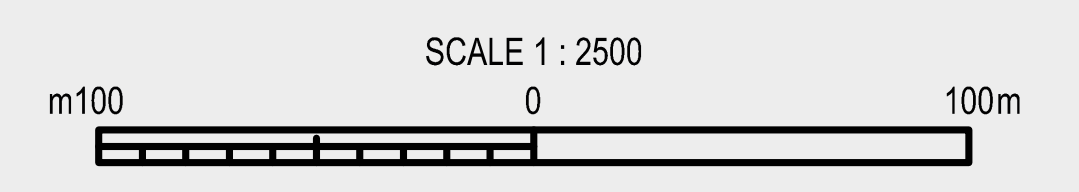




Annex 1.11
Llandyfaelog Substation

Key

- Planning application site boundary
- 400 kV substation
- ▭ 132 kV substation platforms
- 400 kV overhead line (existing)
- Pylons (existing)
- Proposed species rich grassland
- Proposed landscaping
- Proposed access road
- - Proposed hedgerow reinforcement



Allwedd

- Ffin safle'r cais cynllunio
- Is-orsaf 400 kV
- Platformau is-orsaf 132 kV
- 400 kV llinell uwchben (presennol)
- Peilonau (presennol)
- Glaswelltir cyfoethog eu rhywogaethau arfaethedig
- Tirlunio arfaethedig
- Heol mynediad arfaethedig
- - - Atgyfnerthiad gwrychoedd arfaethedig



**Is-orsaf
Llandyfaelog**

A484

A484

SCALE 1 : 2500
m100 0 100m