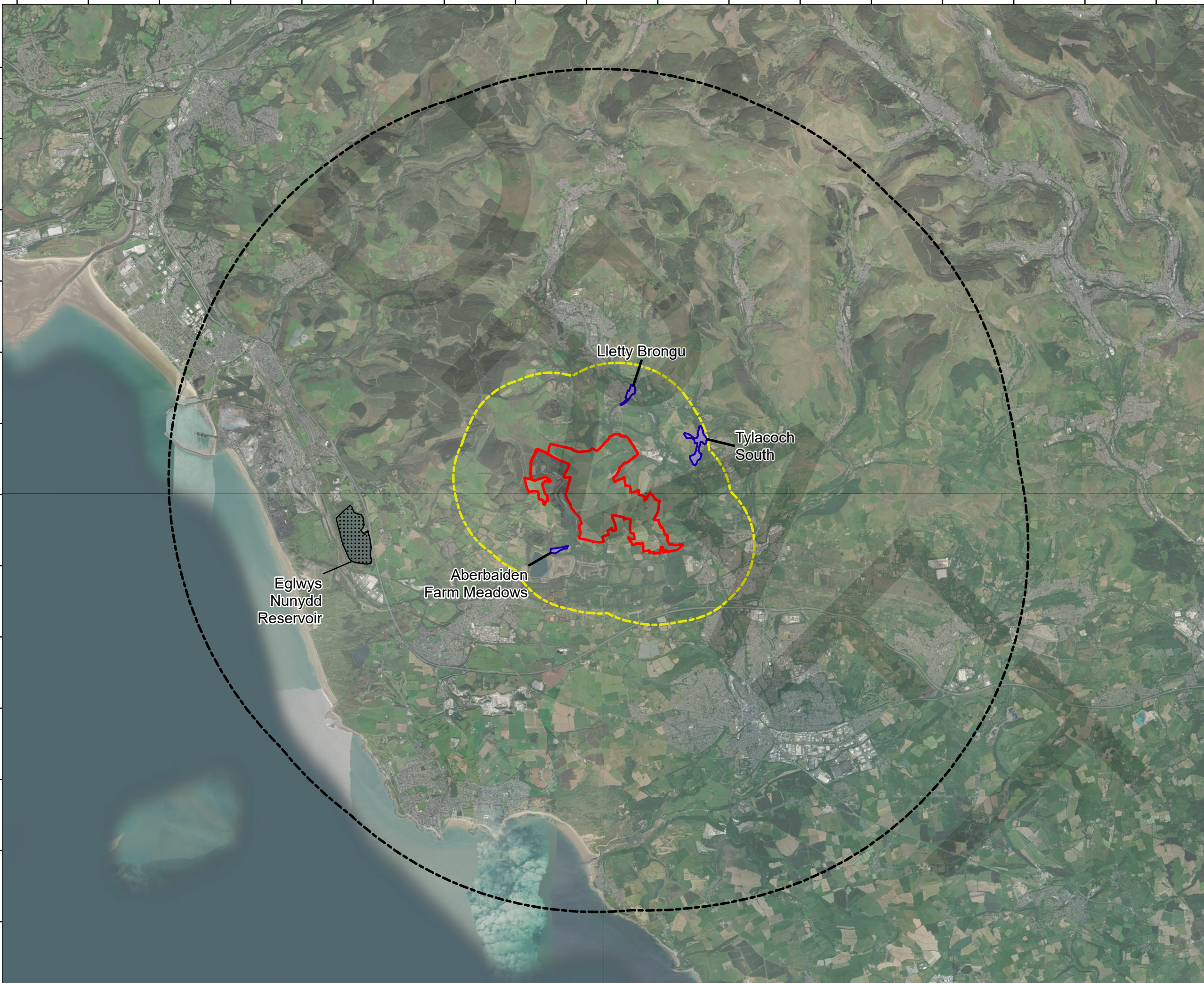


270000 272000 274000 276000 278000 280000 282000 284000 286000 288000 290000 292000 294000 296000 298000 300000 302000

198000
196000
194000
192000
190000
188000
186000
184000
182000
180000
178000
176000
174000



- Legend:**
- Site boundary
 - 2km site buffer
 - 10km site buffer
 - SSSIs identified of relevance to ornithology
 - SINCs identified of relevance to ornithology

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



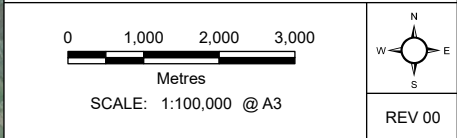
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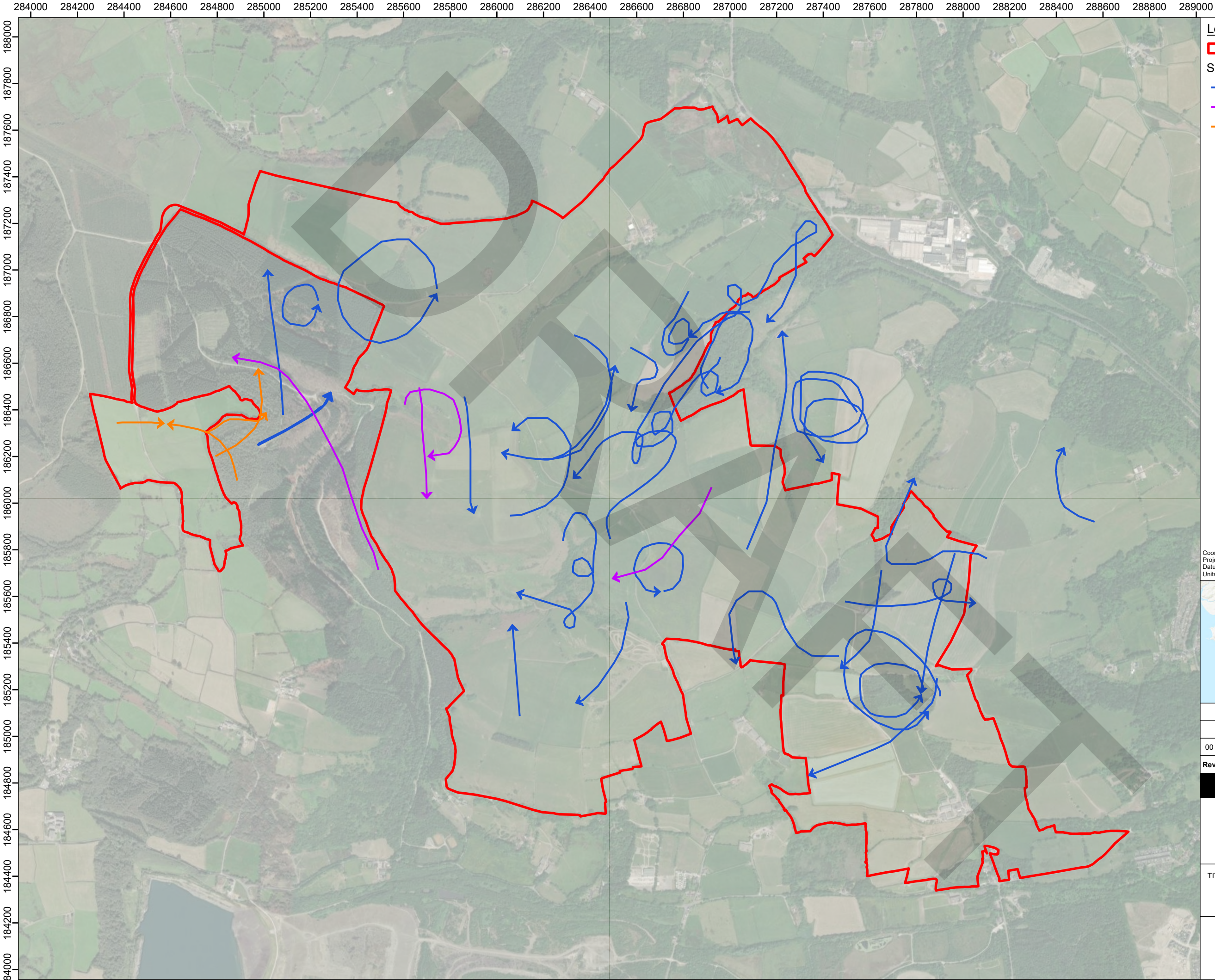
Mynydd Ty-talwyn Energy Park



TITLE: Figure 11.1:

Key Ornithological Features
Designated Sites





- Legend:**
- Site boundary
 - Species Flight Lines
 - Red kite
 - Lapwing
 - Merlin

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

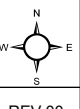
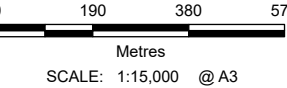


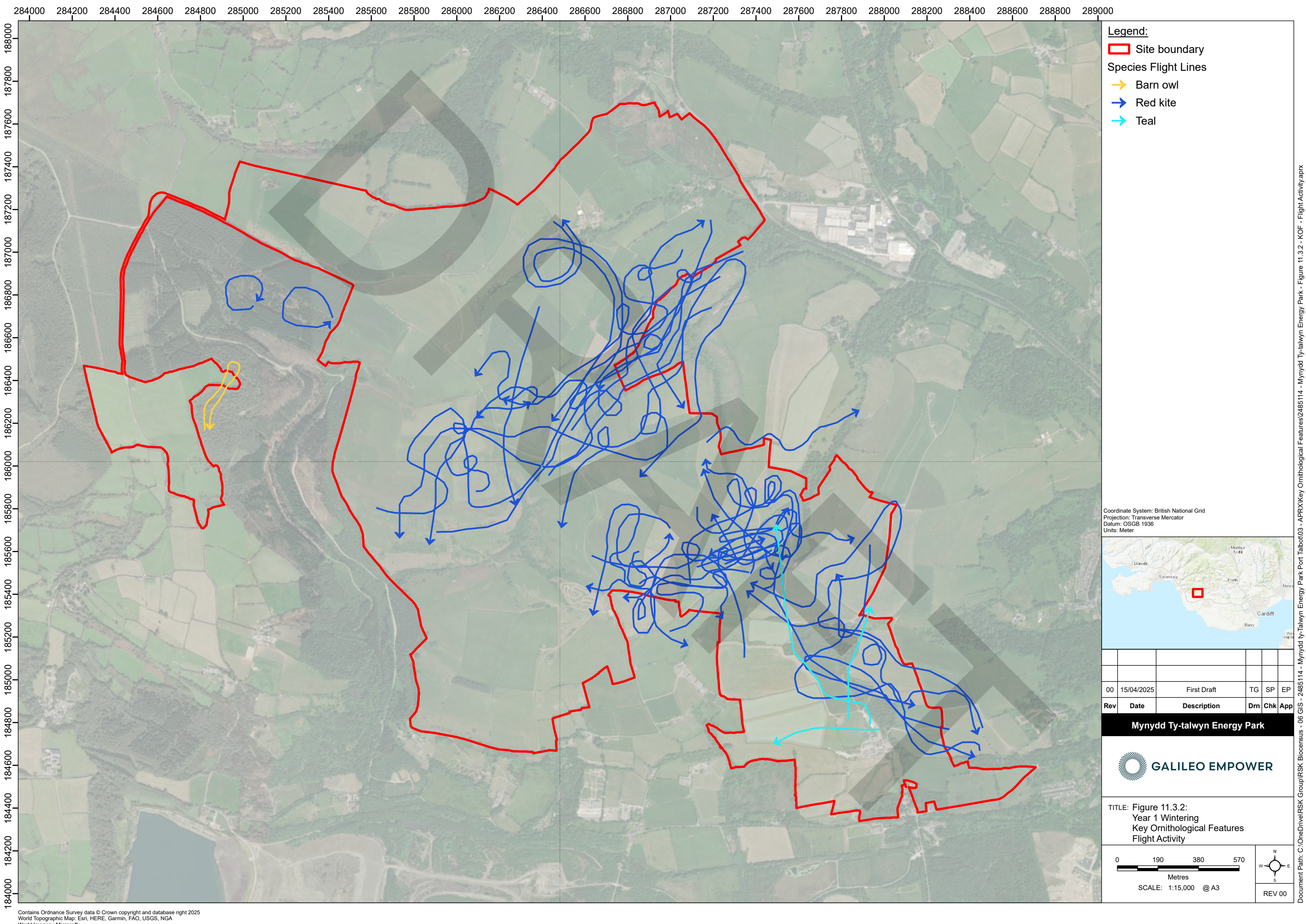
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TITLE: Figure 11.3.1:
Year 1 Breeding
Key Ornithological Features
Flight Activity





- Legend:**
- Site boundary
 - Species Flight Lines**
 - Barn owl
 - Red kite
 - Teal

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



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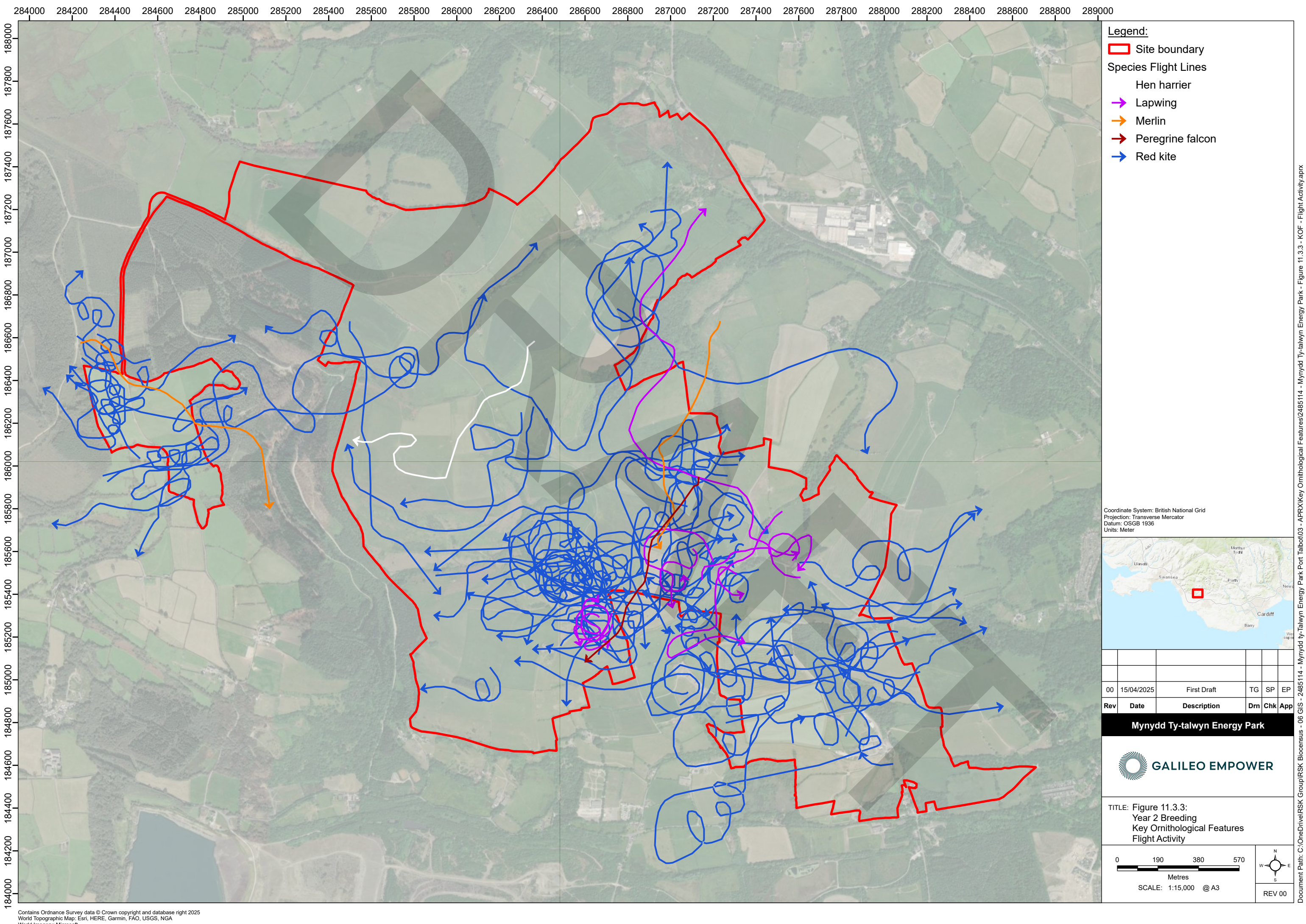


TITLE: Figure 11.3.2:
Year 1 Wintering
Key Ornithological Features
Flight Activity

0 190 380 570
Metres
SCALE: 1:15,000 @ A3

N
W E
S

REV 00



- Legend:**
- Site boundary
 - Species Flight Lines
 - Hen harrier
 - Lapwing
 - Merlin
 - Peregrine falcon
 - Red kite

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

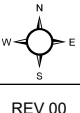
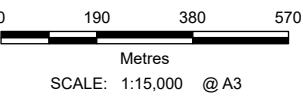


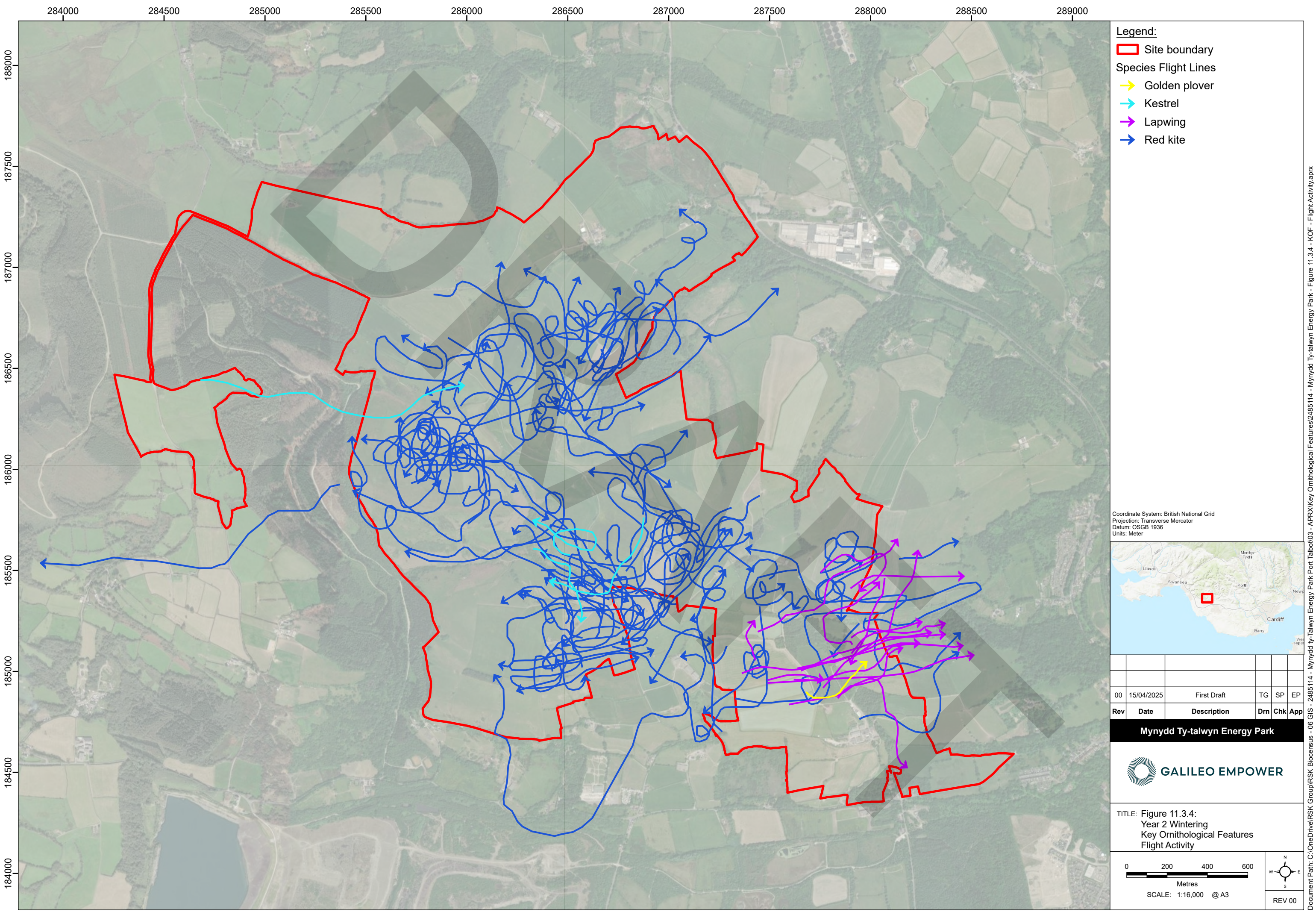
00	15/04/2025	First Draft	TG	SP	EP
Rev	Date	Description	Drm	Chk	App

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TITLE: Figure 11.3.3:
Year 2 Breeding
Key Ornithological Features
Flight Activity





- Legend:**
- Site boundary
 - Species Flight Lines**
 - Golden plover
 - Kestrel
 - Lapwing
 - Red kite

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

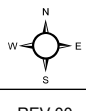
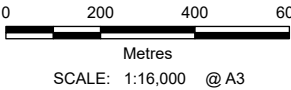


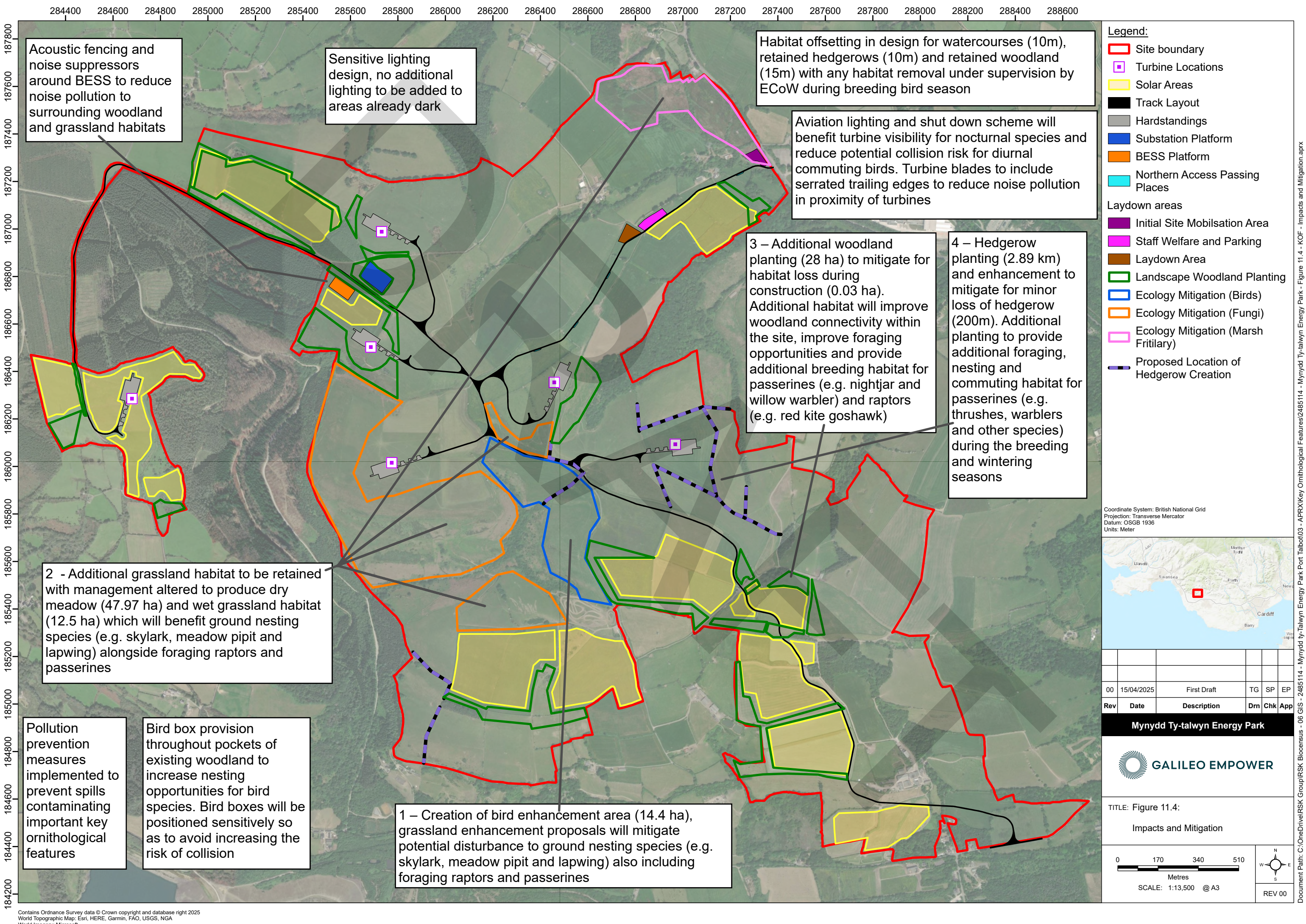
00	15/04/2025	First Draft	TG	SP	EP
Rev	Date	Description	Drm	Chk	App

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TITLE: Figure 11.3.4:
Year 2 Wintering
Key Ornithological Features
Flight Activity





Acoustic fencing and noise suppressors around BESS to reduce noise pollution to surrounding woodland and grassland habitats

Sensitive lighting design, no additional lighting to be added to areas already dark

Habitat offsetting in design for watercourses (10m), retained hedgerows (10m) and retained woodland (15m) with any habitat removal under supervision by ECoW during breeding bird season

Aviation lighting and shut down scheme will benefit turbine visibility for nocturnal species and reduce potential collision risk for diurnal commuting birds. Turbine blades to include serrated trailing edges to reduce noise pollution in proximity of turbines

3 – Additional woodland planting (28 ha) to mitigate for habitat loss during construction (0.03 ha). Additional habitat will improve woodland connectivity within the site, improve foraging opportunities and provide additional breeding habitat for passerines (e.g. nightjar and willow warbler) and raptors (e.g. red kite goshawk)

4 – Hedgerow planting (2.89 km) and enhancement to mitigate for minor loss of hedgerow (200m). Additional planting to provide additional foraging, nesting and commuting habitat for passerines (e.g. thrushes, warblers and other species) during the breeding and wintering seasons

2 - Additional grassland habitat to be retained with management altered to produce dry meadow (47.97 ha) and wet grassland habitat (12.5 ha) which will benefit ground nesting species (e.g. skylark, meadow pipit and lapwing) alongside foraging raptors and passerines

Pollution prevention measures implemented to prevent spills contaminating important key ornithological features

Bird box provision throughout pockets of existing woodland to increase nesting opportunities for bird species. Bird boxes will be positioned sensitively so as to avoid increasing the risk of collision

1 – Creation of bird enhancement area (14.4 ha), grassland enhancement proposals will mitigate potential disturbance to ground nesting species (e.g. skylark, meadow pipit and lapwing) also including foraging raptors and passerines

- Legend:
- Site boundary
 - Turbine Locations
 - Solar Areas
 - Track Layout
 - Hardstandings
 - Substation Platform
 - BESS Platform
 - Northern Access Passing Places
- Laydown areas
- Initial Site Mobilisation Area
 - Staff Welfare and Parking
 - Laydown Area
 - Landscape Woodland Planting
 - Ecology Mitigation (Birds)
 - Ecology Mitigation (Fungi)
 - Ecology Mitigation (Marsh Fritillary)
 - Proposed Location of Hedgerow Creation

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



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GALILEO EMPOWER

TITLE: Figure 11.4:
Impacts and Mitigation

0 170 340 510
Metres
SCALE: 1:13,500 @ A3

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