

MONA OFFSHORE WIND PROJECT

Preliminary Environmental Information Report

Volume 7, annex 19.1: Historic environment desk based assessment



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Final

Image of an offshore wind farm

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Glossary

Term	Meaning
Archaeology and Heritage Engagement Forum	A consultation group comprising Cadw, Clwyd Powys Archaeological Trust and Royal Commission on the Ancient and Historical Monuments of Wales
Designated historic asset	A World Heritage Site, Scheduled Monument, Listed Building, Protected Wreck Site, Registered Park and Garden, Registered Battlefield, Registered Historic Landscape or Conservation Area designated under the relevant legislation.
Historic asset	An identifiable component of the historic environment. It may consist or be a combination of an archaeological site, a historic building or area, historic park and garden or a parcel of historic landscape. Nationally important historic assets will normally be designated
Historic environment	All aspects of the environment resulting from the interaction between people and places through time, including all surviving physical remains of past human activity, whether visible, buried or submerged, and landscaped and planted or managed flora.
Mona Proposed Onshore Development Area	The area of land to be temporarily or permanently occupied during the construction, operation and maintenance and decommissioning of the Mona Offshore Wind Project.
Setting of a historic asset	The setting of an historic asset includes the surroundings in which it is understood, experienced and appreciated embracing present and past relationships to the surrounding landscape. Its extent is not fixed and may change as the asset and its surroundings evolve. Elements of a setting may make a positive or negative contribution to the significance of an asset, may affect the ability to appreciate that significance or may be neutral.
Significant view	Significant views are identified in the Register of Parks and Gardens of Special Historic Interest as part of the registration process.

Acronyms

Acronym	Description
ADS	Archaeology Data Service
aOD	above Ordnance Datum
BGS	British Geological Survey
CPAT	Clwyd-Powys Archaeological Trust
DBA	(Historic Environment) Desk-based Assessment
HER	Historic Environment Record
NG	National Grid
NLW	National Library of Wales
NRS	Natural Resources Wales
OS	Ordnance Survey
RCAHMW	Royal Commission on the Ancient and Historical Monuments of Wales

Acronym	Description
ZTV	Zone of Theoretical Visibility

Units

Unit	Description
ha	Hectares
km	Kilometres
kV	Kilovolts
m	Metres

1 Historic environment desk-based assessment

1.1 Introduction

1.1.1.1 This historic environment technical report sets out the results of a historic environment Desk Based Assessment (DBA) that has been undertaken with regards to the onshore elements of the proposed Mona Offshore Wind Project.

1.1.1.2 The onshore elements of the proposed scheme are located in Conwy and Denbighshire, North Wales and comprise:

- Mona Landfall to the west of Abergele
- Two potential Onshore Substation option sites to the southwest of St Asaph
- An Onshore Cable Corridor approximately 18km in length, that links the Landfall to the Onshore Substation
- A 400kV Grid Connection Cable Corridor, approximately 3km in length linking the scheme substation to the National Grid (NG) substation at Bodelwyddan.

1.1.1.3 These elements are included in the Mona Proposed Onshore Development Area together with the construction compounds, accesses and other land that will be temporarily or permanently occupied during the construction, operations and maintenance, and decommissioning of the Mona Offshore Wind Project.

1.1.1.4 The DBA has examined data from a number of sources in order to identify known historic environment resources and also to identify the potential for the presence of such resources within the Mona Proposed Onshore Development Area.

1.1.1.5 This report presents the results of the DBA and is accompanied by gazetteers of known historic environment resources (Appendix D) and supporting graphical data (see Figure 2a and Figure 2b).

1.1.1.6 A summary of the information presented in this DBA, supplemented by information gained from a phased programme of archaeological fieldwork, will be used to describe the historic environment baseline in volume 3, chapter 19: Historic environment of the Preliminary Environmental Information Report (PEIR). The programme of archaeological fieldwork is described in paragraphs 1.3.1.7 to 1.3.1.9.

1.2 Study area

1.2.1.1 The historic environment study area comprises the Mona Proposed Onshore Development Area and the following and is shown on Figure 1 **Error! Reference source not found.**

- Designated historic assets of the highest significance (e.g. Scheduled Monuments, Grade I and II* listed buildings, Grade I and II* Registered Parks, Landscape of Special Historic Interest, and Gardens of Special Historic Interest) – 1km from the Mona Proposed Onshore Development Area (i.e. a 2km wide corridor) and a 5km radius centred on the Mona Onshore Substation option sites
- Other designated heritage assets (e.g. Grade II listed buildings, Grade II Registered Parks and Gardens of Special Historic Interest, Conservation

Areas) – 1 km from the Mona Proposed Onshore Development Area (i.e. a 2km wide corridor) and a 1km radius centred on the Mona Onshore Substation option sites

- Buried archaeology (as recorded on the HER data) with a focus on 250m from the Mona Proposed Onshore Development Area and a 1km radius centred on the Mona Onshore Substation option sites.

1.3 Methodology

1.3.1.1 The DBA has been prepared with reference to appropriate guidance and 'good practice' advice including that presented in the Chartered Institute for Archaeologists' *Standard and Guidance for Archaeological Desk Based Assessment* (CIfA 2020).

1.3.1.2 The DBA has been prepared in accordance with a written specification that was submitted to, and agreed by, the Clwyd-Powys Archaeological Trust (CPAT) (see Appendix B).

1.3.1.3 The historic environment study area (see section 1.2) was used for the purposes of data collection and, where appropriate, material beyond the historic environment study area has also been examined.

1.3.1.4 The following sources have been reviewed thus far:

- Cadw website (Cof Cymru) for information on Scheduled Monuments, Listed Buildings, and Registered Parks and Gardens and Landscapes of Special Historic Interest
- The regional Historic Environment Record (HER) maintained by CPAT
- 19th Century Tithe mapping and 1st Edition Ordnance Survey (OS) 1:10,560 mapping within the historic environment study area
- Welsh Government Air Photos Online <http://aerialphotos.wales.gov.uk/>.
- British Geological Survey (BGS) data
- ArchSearch (data held by the Archaeology Data Service (ADS)).

1.3.1.5 Following the refinement of the Onshore Cable Corridor (likely to be post PEIR), the following sources will also be consulted where appropriate:

- Documents held by Conwy and Denbighshire Archives (where relevant records additional to those held by CPAT are identified)
- National Library of Wales (NLW)
- Royal Commission on the Ancient and Historical Monuments of Wales (RCAHMW)
- Natural Resources Wales (NRW) Lidar data
- Portable Antiquities Scheme (PAS).

- 1.3.1.6 The NRW LANDMAP database will also be reviewed following the refinement of the Mona Proposed Onshore Development Area with specific reference to the historic landscape dataset.
- 1.3.1.7 The appraisal of desk based information has been augmented by a site walkover in June 2022. The purpose of the site walkover was to assess existing ground conditions, topography, and land use, which may influence the heritage assessment and fieldwork surveys. The walk-over also aimed to establish the presence of any non-designated historic buildings, potential earthwork features, and any above ground features of archaeological interest within the proposed cable route. No unrecorded historic buildings or archaeological features were observed. The observations from the site walkover were used to inform the scope of archaeological fieldwork described below and are reported in volume 3, chapter 19: Historic environment, of the PEIR. A further site walkover will be undertaken following the selection of the Mona Onshore Substation option and refinement of the Mona Onshore Cable Corridor. Results from this walkover will be reported in the Environmental Statement.
- 1.3.1.8 An archaeological survey of the intertidal zone was undertaken in October 2022, with the survey not identifying any features on the exposed ground surface that are of palaeoenvironmental or geoarchaeological interest (volume 7, annex 19.4: Intertidal survey report of the PEIR).
- 1.3.1.9 An archaeological geophysical survey commenced on 31 October 2022 and is ongoing. Preliminary survey results indicate that only a small number of anomalies of reasonable archaeological interest have been identified so far, with the majority of anomalies identified either related to Post Medieval or Modern farming practices or considered natural in origin. The interim results of the geophysical survey are presented in annex 19.3: Geophysical survey (interim report) of the PEIR. The full results of the survey and a targeted programme of trial trenching will be reported in the Environmental Statement.
- 1.4 Baseline environment**
- 1.4.1 Summary of geology and topography**
- 1.4.1.1 The Mona Landfall is proposed to the north of the Gwrych Castle Estate. The basal geology at the Landfall site is Carboniferous limestone of the Clwyd Limestone Group, overlain by tidal clays, sands and silts of Holocene date.
- 1.4.1.2 From the Mona Landfall site, the Mona Proposed Onshore Development Area is aligned south to cross the North Wales Main Line railway and the A55 Trunk Road (also known as the North Wales Expressway). The Mona Proposed Onshore Development Area then travels across rising ground associated with the Gwrych Castle Estate with the Mona Proposed Onshore Development Area running approximately 250m to the west of the Gwrych Castle.
- 1.4.1.3 The Mona Proposed Onshore Development Area continues on a generally southerly alignment, crossing open, yet undulating ground associated with a series of smaller river valleys issuing from the boundary between the Clwyd Limestone Group and the Ffernant Mudstone Formation, before continuing south towards Pen-y-bryn where the undulating landscape transitions into a more level topography.
- 1.4.1.4 It progresses across level farmland further to the south associated with basal Silurian mudstones, siltstones and sandstones of the Elwy Formation overlain by superficial Devensian till before turning east to cross the A548 road. The Mona Proposed Onshore Development Area then splits for a distance of approximately 1.25km. The southern route occupies the northern slope of Moelfre Isaf which is a localised high point (peak at 317m above Ordnance Datum (aOD)), passing through increasingly hilly terrain. The northern route is to the northeast, crossing the B5381 Glascoed Road before turning southeast once it has passed Tan-y-mynydd.
- 1.4.1.5 The Mona Proposed Onshore Development Area then continues on an easterly alignment occupying an approximately 900m wide transect of rolling farmland south of the B5381 Glascoed Road, cutting across the landscape gradient rising to the north in addition to crossing several north south aligned minor roads. The Mona Proposed Onshore Development Area undulates between approximately 100m and 150m aOD in this area, and the basal geology reverts back to the Clwyd Limestone Group, although the superficial till is still present.
- 1.4.1.6 In the area to the south of the St Asaph Business Park, the topography opens out into a flatter terrain, where the floodplain of the River Elwy meets the North Wales coastal plain, and decreases in height to between 40-50m aOD. The geology in this area is associated with the Warwickshire Group (mudstone, siltstone and sandstone deposits) overlain by further areas of superficial till.
- 1.4.2 Designated historic assets**
- Mona Proposed Onshore Development Area**
- 1.4.2.1 Identified historic environment sites/features are shown in Appendix A - Figures 2a to 2b and 3a to b as Sites 1-215. Further information on these is provided in the gazetteer presented in Appendix C.
- 1.4.2.2 The locations of Grade II listed buildings within the identified historic environment study area are shown on Figures 2a to 2b but have not been allocated individual numbers. Further information is presented in Appendix D.
- 1.4.2.3 Only one designated historic asset would be physically impacted by any part of the proposed works required for the onshore elements of the Mona Offshore Wind Project. Effects on other designated assets would be represented by loss of significance as a result of change within the setting of the asset.
- 1.4.2.4 Examination of appropriate sources indicates that there are no World Heritage Sites within the defined historic environment study area.
- 1.4.2.5 There are five Scheduled Monuments within the historic environment study area: the earliest of these is the Neolithic burial chamber at Tyddyn Bleiddyn (Site 1), near Cefnmeiriadog which is located approximately 280m south of the Mona Proposed Onshore Development Area. It represents the remains of a chambered cairn consisting of a stony oval mound 0.8m high, with a 26m by 12m passage in the western end and with two chambers leading off the passage.
- 1.4.2.6 Three of the Scheduled Monuments are hillforts dated to the Iron Age period. Castell Cawr Hillfort near Abergele (Site 2) is located at the highest point of Coed y Gopa, with univallate defences to the west and south defining an internal area of approximately 2ha. Castell Cawr Hillfort is located approximately 700m to the east of the Mona Proposed Onshore Development Area. The second hillfort, Pen-y-Corrdyn-

- Mawr Hillfort (Site 3) is also near Abergele. It is located approximately 200m to the west of the Mona Proposed Onshore Development Area and is defined by its bivallate defences defining an internal area of 9.7ha. Bedd-y-Cawr Hillfort (Site 26) is located approximately 550m to the south of the Mona Proposed Onshore Development Area and forms the remains of a defend enclosure constructed on an inland promontory at the end of the ridge of Bryn Meriadog,
- 1.4.2.7 The fifth Scheduled Monument located within the historic environment study area comprises an area of WWI practice trenches and associated command post within Bodelwyddan Park (Site 4). This is located approximately 500m to the north of the Mona Proposed Onshore Development Area although the extent of the scheduling is currently under review by Cadw and may well be extended in due course. The monument is represented by a series of practice trenches used during training in tWWI. There are two firing trenches, the front one sharply traversed, connected by communication trenches dug zig zag. To the west is an earthwork which might be the position of the command post, sited uphill from the trenches.
- 1.4.2.8 The Registered Lower Elwy Valley Landscape of Special Historic Interest (Site 29) is located approximately 500m to the south of the Proposed Onshore Development Area. The well-contained landscape is closely defined by the gorge of the River Elwy as it rounds Cefn Meiriadog. Several sheer limestone cliffs occur along the northeast side of the valley and the area around Cefn includes one of the most important groups of Palaeolithic and later caves and rock shelters in Britain, containing Quaternary geological and archaeological deposits of international significance.
- 1.4.2.9 The Grade II* Registered Historic Park and Garden of Gwrych Castle near Abergele (Site 5) is centred around the prominent 19th century Gothic castle within a landscape which was designed for visual impact and to provide outstanding views. There are defined Significant Views to the northwest, north and northeast, and from the east, northeast and northwest. The Mona Proposed Onshore Development Area passes through the Registered Historic Park and Garden. The Grade I Listed Gwrych Castle (Site 13) itself is a large castellated mansion in local grey limestone and is located approximately 175m east of the Mona Proposed Onshore Development Area.
- 1.4.2.10 A second Grade II* Registered Historic Park and Garden at Kinmel Park near Bodelwyddan (Site 6) is located immediately to the north of the Mona Proposed Onshore Development Area. The formal garden, probably by W.E. Nesfield and dating to the late 19th century, shares important group value with the Grade I Listed Kinmel Hall (Site 15) and its associated estate buildings together with parkland and garden structures. Grade II* Listed structures associated within the Kinmel Hall complex consist of a 19th century iron screen and gates (Site 16), and contemporary single-storey coach house and stable (Site 17). The Listed Buildings are located approximately 800m north of the Mona Proposed Onshore Development Area. The defined Significant Views associated with the Historic Park and Garden are all to or from the north, northeast and northwest.
- 1.4.2.11 The nearby Grade II Registered Historic Park and Garden at Bodelwyddan Castle (Site 7) is an 18th and 19th century landscape park, with later Arts and Crafts garden by the well-known garden designer Thomas Hayton Mawson. The asset shares important group value with Bodelwyddan Castle, for which it provides the setting, and the numerous estate buildings of contemporary date. The Historic Park and Garden is located immediately to the north and east of the Mona Proposed Onshore Development Area. The Grade II* Listed Bodelwyddan Castle (Site 19) and associated ice house (Site 20) lie at the centre of the estate, and reflect substantial works undertaken on the estate during the 19th century. These structures lie between 1km and 1.25km north and west of the Mona Proposed Onshore Development Area. There is a defined Significant View to the southeast from Bodelwyddan Castle along with ones to the east and northeast.
- 1.4.2.12 Immediately to the west of the of the Mona Proposed Onshore Development Area is a group of three Grade II* Listed Buildings. Two gate lodges, Tan-yr-Ogof Lodge (Site 8) and Plas Tan-yr-Ogof (Site 9), in addition to Tan-yr-Ogof Farmhouse (Site 10), were all built during the 19th century as part of the wider Gwrych Castle estate. Further contemporary Grade II* gate lodges for the Gwrych Castle estate comprise Hen Wrych Lodge (Site 11) located approximately 150m east of the Mona Proposed Onshore Development Area, and King's Lodge (Site 12) located approximately 900m to the east of the Mona Proposed Onshore Development Area.
- 1.4.2.13 The Grade II* Listed Dinorben Hall (14) near Kinmel, is Medieval in origin, re-partitioned and extended in the 17th century, built of rendered stone with slated roof, and located approximately 650m north of the Mona Proposed Onshore Development Area.
- 1.4.2.14 Pen-isa'r-Glascoed Farmhouse (Site 18), located approximately 100m west of the Mona Proposed Onshore Development Area, is a Grade II* Listed one to two storey farmhouse of local limestone, dated by inscription to 1540.
- 1.4.2.15 The 16th century Elizabethan storeyed gentry house, Plas Newydd (Site 21), is encircled by the Mona Proposed Onshore Development Area which is approximately 100m to the north and south. The house is Grade II* Listed and constructed of squared local limestone blocks with finely tooled quoins, built on rock foundations. A second example of a Grade II* Listed Elizabethan storeyed house is Faerdre (Site 38), located approximately 700m to the northeast of the Mona Proposed Onshore Development Area. The house is a good example of a fine quality dwelling and bears similarities with Plas Newydd.
- 1.4.2.16 The Grade II* Listed Parish Church of St Cynbryd (Site 32) was originally constructed in 1732, prior to demolition and replacement by the present building in 1868-69. It was conceived in a style drawing upon both curvilinear and geometric elements. The church is located approximately 700m to the west of the Mona Proposed Onshore Development Area.
- 1.4.2.17 Three Conservation Areas are located within the historic environment study area. Abergele Conservation Area (Site 22) is located approximately 700m to the south of the Mona Proposed Onshore Development Area and notably contains the Grade II* Listed Church of St. Michael (Site 33). The building dates to the late 12th to early 13th century, although was largely rebuilt in approximately 1400.
- 1.4.2.18 The Bodelwyddan Conservation Area (Site 23) is located 450m northeast of the Mona Proposed Onshore Development Area, and it too contains a Grade II* Listed church, that of the Church of St Margaret (Site 39). The foundation stone of the church was laid 24 July 1856. It is a large church consisting of a nave and north and south aisles, chancel and porch under a massive tower.
- 1.4.2.19 The St Asaph Conservation Area (Site 24) is located approximately 525m to the northeast of the Mona Proposed Onshore Development Area. As a historic town of reasonable size, the Conservation Area at St Asaph contains a notable group of Grade II* and Grade I Listed Buildings. The Grade I Listed Cathedral Church of St Asaph

(Site 44) was originally built in 1143, with significant rebuilding taking place in the 13th century. A central tower was added in 1391-2 but this was blown down in 1714. Further changes to the building were made in the 18th and 19th centuries. The Grade II* Listed buildings here consist of: The Old Palace (45) built in 1791 by Bishop Bagot; Esgobty Farmhouse (Site 46) which is a T-plan farmhouse with 16th/17th timber frame origins and early to mid-18th century brick encasing; and the St Asaph Foot Bridge (Site 49) built in 1770 by Joseph Turner of Chester.

Onshore Substations

- 1.4.2.20 Appendix A -Figure 2c and Figure 2d depict the location of designated historic assets within a 5km radius of the Mona Onshore Substation option 7 and 2 respectively. The Zone of Theoretical Visibility (ZTV) for each option has been overlaid onto these figures in order to establish which of these designated historic assets within the historic environment study area is theoretically intervisible with each substation option. Only those designated assets which fall within the ZTV have been selected for discussion below or listed in Appendix E and Appendix F.
- 1.4.2.21 Multiple designated historic assets have some level of intervisibility with both the eastern and western substation option locations. There is a limited degree of intervisibility with the Grade II* Registered Historic Park and Garden of Gwrych Castle (Site 6), located approximately 2.2km and 3.5km from the eastern and western substations, respectively; while there is increased intervisibility with the neighbouring Grade II Registered Historic Park and Garden at Bodelwyddan Castle (Site 7) approximately 1km and 2.1km from the eastern and western substations, respectively. Both The Bodelwyddan WWI practice trenches Scheduled Monument (Site 4) and the Grade II* Listed Bodelwyddan Castle (Site 19), located within the Bodelwyddan Registered Historic Park and Garden, are also likely to be intervisible with both substation options.
- 1.4.2.22 The St Asaph Conservation Area (Site 24) and the historic assets comprising the Grade I Listed Cathedral Church of St Asaph (44), the Grade II* Listed buildings of The Old Palace (Site 45), and Esgobty Farmhouse (Site 46), are also potentially intervisible at a distance of approximately 2.25km from the Mona Onshore Substation option 7, and 900m from Mona Onshore Substation option 2.
- 1.4.2.23 There is some limited intervisibility with the northern areas of the Lower Elwy Valley Registered Historic Landscape (Site 29), approximately 500m from the Mona Onshore Substation option 7 and 1.3km from the Mona Onshore Substation option 2.
- 1.4.2.24 The collective group of designated historic assets at Rhuddlan which form the medieval core of the town consisting of Rhuddlan Castle Scheduled Monument and Grade I Listed building (Site 226), the Norman Borough Scheduled Monument (Site 227), Twthill Motte and Baily Castle Scheduled Monument (Site 228), and the Rhuddlan Town Banks Scheduled Monument (Site 229), are potentially intervisible at an extended distance from both Mona Onshore Substation options. In general, the assets in question are located between 3.5km and 4.25km away from option 7, and between 4.25km and 4.8km away from option 2.
- 1.4.2.25 The Grade II Registered Historic Park and Garden of Plas Heaton (Site 231) is potentially partially intervisible with both substation options. The park is sighted on the western edge of the Vale of Clwyd and was probably laid out in the early 19th century. Two drives approach the house from the north and south, each with an entrance flanked by gate piers and an entrance lodge. Plas Heaton lies approximately 3.3km and 3.5km from the Mona Onshore Substation option 7 and 2, respectively.
- 1.4.2.26 The Grade II* Listed Bodeugan Farmhouse (Site 236) and associated Grade II * Listed Dovecote (Site 237), are located approximated 2.75km and 4.25km from the eastern and western substation options, respectively. The Bodeugan Farmhouse is thought to be late 17th century in date, consisting of three storeys and of brick construction, partly rendered. The Dovecote is also of red brick construction.
- 1.4.2.27 The Criccin Cross Scheduled Monument (Site 230) is a medieval stone cross shaft located on the top of a small hill, and potentially intervisible with both substation options. The Mona Onshore Substation option 7 is located at a distance of approximately 3.7km, while the Mona Onshore Substation option 2 is located at a distance of approximately 4.7km.
- 1.4.2.28 Due to the topographical position of the Mona Onshore Substation option 7, the ZTV indicates that a substation here would have a greater level of intervisibility with historic assets, especially within the northern and eastern parts of the historic environment study area. Rhuddlan Bridge Scheduled Monument and Grade II* Listed Building (Site 225), dating to 1595, is of stone construction with two unequal arches, and is located approximately 4.4km from the Mona Onshore Substation option 7.
- 1.4.2.29 There are partial extended views of the Grade II St. Beuno's College Registered Historic Park and Garden (Site 232) located approximately 4.75km from the Mona Onshore Substation option 7. St Beuno's College was founded in 1848, with further substantive building works taking place in 1873-74. Located within the Registered Historic Park and Garden, and potentially sharing intervisibility, is the Grade II* Listed St Beuno's College (Site 238). The complex is an irregular suite of buildings around a quadrangle, designed by Hansom as a Jesuit college for training for the priesthood.
- 1.4.2.30 The Grade II Brynbella Registered Historic Park and Garden (Site 233) is also located in proximity to St. Beuno's College Registered Historic Park and Garden, with intervisibility possible from the Mona Onshore Substation option 7 which is located approximately 4.3km to the west. Brynbella has been designated for its historic interest as a small late 18th century park and informal garden with later overlays, which provides the setting to Brynbella Hall and its associated estate buildings.
- 1.4.2.31 Immediately to the north of Brynbella Registered Historic Park and Garden is the Tremeirchion Conservation Area (Site 234), approximately 5km to the east of the Mona Onshore Substation option 7, with some limited intervisibility possible.
- 1.4.2.32 The Grade II* Plas-is-Ilan Listed Building (Site 235) is located approximately 4.3km from the Mona Onshore Substation option 7. The house is dated 1765 and appears to be planned as a formal unity with its two barns, with a single storey link between house and barns probably added later.
- 1.4.2.33 Potentially visible approximately 1.8km to the south of the Mona Onshore Substation option 7 is the Grade II* Listed Wigfair Hall (Site 240), consisting of a large irregularly planned country house in Tudorbethan style of red brick construction on a snecked limestone plinth.
- 1.4.2.34 The Grade II* Listed Gwernigron Dovecote (Site 241) potentially shares intervisibility with the Mona Onshore Substation option 2, lying approximately 2.2km to the north. The dovecote features the style of stepped gable often found on high status buildings in this region in the late 16th or early 17th century.

1.4.3 Archaeological and historical baseline

Palaeolithic-Mesolithic-Neolithic-Bronze Age-Iron Age (900,000 BC – AD 43)

- 1.4.3.1 The general area of the Vale of Clwyd has a long history of human occupation. Excavation in several of the caves has produced evidence of early prehistoric habitation, in some cases dating as far back as the Lower Palaeolithic. At Pontnewydd Cave the early Neanderthal material represent the oldest hominin remains in Wales (recently dated to c. 230,000BP), whilst other important material has been recovered from the Brasgyll, Galltfaenan, Cefn and Cae Gronw caves (*cf. Aldhouse-Green et al 1996*).
- 1.4.3.2 This very early material has survived within the caves and rock shelters in the higher parts of the limestone uplands. Subsequent advances and retreats of ice sheets have changed the lower lying parts of the landscape on numerous occasions through to the ending of the most recent glacial episode at about 12,000BP. As the ice sheet diminished, sea levels in the area started to rise quickly and much of what is currently dry land would have been inundated. Studies in the Liverpool Bay area indicate that the sea level reached a high stand (maximum peak) at about 2,300BP before beginning to fall back again (Tooley 1978; 1985).
- 1.4.3.3 This process of sea level rise and fall was not a constant process; there would have been many periods of marine transgression and regression. During more stable times, land surfaces would have developed, only to be inundated and covered (and possibly eroded through subsequent regressive stages). Evidence for these sequences is in the form of Holocene peat deposits that have been found at depths of 10m and 13m below current ground level close to the mouth of the River Clwyd.
- 1.4.3.4 Most of the material found on the foreshore is broadly attributable to the Neolithic and Bronze Age periods. However, an antler mattock from here has been recently dated to c. 4,560BC and it is increasingly clear that there was a considerable amount of activity in the area during the Mesolithic period (c. 8,500-4,000BC) (Murphy 2002). The higher ground at Abergele is set on a ridge of Clwyd Limestone and would have remained above the sea level high stands; it probably represents the most seaward habitable land at such times.
- 1.4.3.5 Shell middens have been identified at Prestatyn, where consumption of mussels in the Mesolithic period suggest a rocky coastline and a subsequent change to a largely cockle-based consumption in the Neolithic indicates the development of sandy beaches.
- 1.4.3.6 Neolithic material in the form of worked flint has also been recorded at Rhuddlan, associated with small pits. Isolated finds of this period (c. 4,000 – 2,400BC) have been recorded from a number of locations in the upper Vale of Clwyd (and on the foreshore), mostly implements of stone (including flint) and also some sherds of pottery.
- 1.4.3.7 Within the study area the earliest evidence for human activity derives from the possible site of a Bronze Age round barrow or burial monument (Site 25), indicated by both place name evidence and a record of a concentration of stones, located on the boundary of the Mona Proposed Onshore Development Area in its mid-section. A possible Bronze Age barrow cemetery (Site 216) formed of six mounds is recorded approximately 175m to the south of the Mona Proposed Onshore Development Area.

- 1.4.3.8 Iron Age activity in the general area is demonstrated by the presence of settlements including hillforts on the higher ground such as those at Castell Cawr (Site 2) and Pen-y-Corrdyn-Mawr (Site 3) mentioned previously. The HER records a possible prehistoric field system (Site 27) on the alignment of the Mona Proposed Onshore Development Area, whilst two possible prehistoric enclosures have been recorded at a distance of approximately 500m from the Mona Proposed Onshore Development Area in separate locations. One of these enclosures (Site 28) is located within the western section of the Mona Proposed Onshore Development Area, while the second one (Site 30) is located approximately 150m north of the Mona Proposed Onshore Development Area. These features could date to the Iron Age period, but without further investigation a later date cannot be precluded.

- 1.4.3.9 The Tan-yr-Ogof Caves (Sites 85 and 86) are located approximately 350m to the west of the Mona Proposed Onshore Development Area near the coast at Abergele. It is suspected, but yet to be proven, that the caves were utilised during the Prehistoric period.

Roman (c. AD 43 - 410)

- 1.4.3.10 Activity during the Roman period is clearly linked to the military conquest and occupation of the area. The major Roman road leading west from the legionary fortress of *Deva* or *Deva Vetrrix* (Chester) to the forts at *Canovium* (Conway) and *Segontium* (Caernarvon) passes through the historic environment study area primarily along the line of Glascoed Road (Site 31). A possible Roman fort may be located at St Asaph, approximately 200 m to the northeast of the Mona Proposed Onshore Development Area (Site 87). At Gwreiddyn the proposed alignment of the Roman road heading west departs from the modern road alignment, continuing on a robust east to west alignment crossing the River Gele at Sirior Hir, and departing the historic environment study area in the vicinity of Bryn-ffanigl Uchaf. The postulated route of the Roman road has the potential to cross the Mona Proposed Onshore Development Area in up to four different locations. St Asaph may be the site of the documented Roman fort of *Varae* (Silvester 2003).

Medieval (c. AD 410 - 1500)

- 1.4.3.11 St Asaph appear to have continued to develop as the pre-eminent centre of activity within the historic environment study area. Documentary sources refer to King Offa's victory over the Welsh at Rhuddlan (*Bellum Rudglann*) in AD 796, although the actual location of any battle remains conjectural at this stage.
- 1.4.3.12 At St Asaph documentary evidence suggests that a monastery and episcopal see (Site 120) may have been founded here as early as AD 560 by the exiled Cyndeyrn (St Kentigern), with St Asaph succeeding Kentigern as bishop following the latter's return to Scotland. In Domesday the settlement here is referred to as *Llanuile* (Llanelwy) and this was changed to St Asaph around the middle of the 12th century. Construction of the cathedral had started by 1239 but the building was burned by troops of Edward I in 1282.
- 1.4.3.13 Outside of the main centre at St Asaph, settlement in the area would mainly have been in the form of small hamlets and isolated farms, as shown in the Domesday survey.

1.4.3.14 Field name evidence may suggest the former presence of a medieval stone cross (Site 34) located within the mid-section of the Mona Proposed Onshore Development Area. A cross in the parish called Croes Rhuddlan (Site 115), probably erected to mark a boundary during the medieval period, is located approximately 200m to the east of the Mona Proposed Onshore Development Area.

1.4.3.15 Analysis of aerial survey data has identified a potential concentration of medieval ridge and furrow earthworks in the vicinity of Groesffordd Marli to the west of St Asaph (Site 35), which would lie across the Mona Proposed Onshore Development Area. Further ridge and furrow earthworks have been recorded at Hendy Farm (Site 161) located a short distance south of the Mona Onshore Substation option 2.

1.4.3.16 Archaeological investigations at St Asaph, approximately 150m northeast of the Mona Proposed Onshore Development Area, have recorded several medieval pits among other later remains (Site 121).

Post-medieval and modern (c. 1500 - present)

1.4.3.17 During the post-medieval period the settlement pattern within the Vale of Clwyd continued to evolve, with hamlets growing or coalescing into villages. Some isolated farms disappeared, whilst some hamlets declined to become single farmsteads or occasionally were totally deserted.

1.4.3.18 Sites of this period recorded on the HER include farmsteads (Sites 36-37, 40-43, 47-48, 50-84, 88, 169-185, 217-220); existing buildings of interest or the former locations of such buildings (Sites 89-114, 163-168, 221-222) including two chapels, sheepfolds, and an icehouse; milestones (Sites 116-118, 200-201); mines and mine shafts (Sites 119, 122, 129, 190-198); limekilns (Sites 130-137, 187-189); quarries (Sites 138-143, 199); field systems (Sites 144 and 145); enclosures (Site 146); an orchard (Site 147); wells (Sites 148-155, 223); ponds (Sites 156-157, 202-208); trackways (Site 224); coastal wrecks (Site 158); settlements (162); aircraft crash sites (Sites 159-160); and war memorials (Site 215). There is a concentration of features dating to WWI and WWII within 100m of the Mona Proposed Onshore Development Area located in both Kinmel and Bodelwyddan Parks (Sites 209-213). A WWII lookout position is recorded approximately 150m to the west of the Mona Proposed Onshore Development Area (Site 214).

1.4.3.19 A number of these sites lie within the Mona Proposed Onshore Development Area, including twenty-one farmsteads/buildings (Sites 53, 54-56, 66, 68, 75, 89, 92-96, 98-100, 104, 106, 107, and 109), four mines/mineshafts (Sites 118, 119, 122, and 125), three milestones (Sites 125-127), three lime kilns (Sites 131, 132, and 136), four quarries (Sites 138, 139, 142, and 143), one post medieval field system (Site 144), four wells (Sites 150-152, and 155), one post medieval wreck (Site 158), and one aircraft crash site.

1.4.3.20 A review of the mid-19th century Tithe mapping for the region (**Error! Reference source not found.** to Figure 4j) confirms the presence of two structures within the Mona Proposed Onshore Development Area, namely Cerrig Goch and Serrior, that are not present on the later historic mapping and are presumed to have been demolished by the late 19th century. The other buildings depicted on the Tithe mapping are represented by structures sited in the same locations as shown on the 1st edition OS 6^{''} mapping, representing a continuity of occupation. Otherwise, the Tithe mapping confirms the agricultural character of the land along the Mona Proposed Onshore

Development Area at this time. This is supported by a review of the 1st edition OS 6^{''} (to the mile) mapping (Figure 5a to Figure 5j), the landscape features of which have been comprehensively logged as HER records (see above).

1.4.3.21 The major 20th century changes in the area have been the expansion of established settlements, the establishment of residential development and holiday camps in the land between the North Wales Main Line railway and the sea, and also the construction of new roads cutting across the landscape, which includes the A55 trunk road.

Aerial photography

1.4.3.22 The material held on the Welsh Government Air Photos Unit online has been reviewed as part of this assessment. Aerial photographs of the historic environment study area held are limited to those dated 2013. A review of these photographs has not identified any additional heritage features of interest. Following the refinement of the Onshore Cable Corridor a search will be undertaken with RCAHMW to see if they hold any aerial photographs of the area.

Important hedgerows

1.4.3.23 Examination of the available historic mapping shows that many of the currently existing field and roadside boundaries are shown on the early 19th century Tithe maps of the area. Under the historic criteria identified in the *Hedgerow Regulations 1997*, these boundaries could be classed as 'important'. Following the refinement of the Onshore Cable Corridor further examination will be made regarding the location of any 'important' hedgerows that could be impacted during construction.

1.5 Conclusion

1.5.1.1 The proposed onshore elements of the Mona Offshore Wind Project would not result in physical impacts on any designated historic assets, with the single exception of the section of the Mona Proposed Onshore Development Area that passes through the central part of the Grade II* Registered Park and Garden of Special Historic Interest at Gwrych Castle.

1.5.1.2 There is potential for impacts arising from change within the settings of designated historic assets, although with regard to most of the proposed elements this change would be temporary (during construction) and fully reversible. The exception would be in respect of the Mona Onshore Substation, where the change would be permanent.

1.5.1.3 The proposed Mona Proposed Onshore Development Area and Onshore Substation option sites are located within a landscape that has the potential to contain archaeological sites and features from all periods. Examination of appropriate sources has identified that the greatest potential is probably in the area in proximity to the Glascoed Road where the alignment of a postulated Roman Road is thought to traverse the local landscape, but the whole of the landscape crossed by the Mona Proposed Onshore Development Area should be considered as having some potential.

1.5.1.4 The proposed onshore elements of the project are not located in areas that contain designated historic landscape elements. However, there are historic field boundaries that may be affected.

1.6 Next steps

- 1.6.1.1 Following the refinement of the Mona Proposed Onshore Development Area, the information presented in this DBA will be further supplemented by examination of additional data sources and by information gained from a staged programme of archaeological fieldwork (see paragraphs 1.3.1.7 to 1.3.1.9) undertaken ahead of any application for consent for the proposed onshore works. A more detailed description of the historical maps will also be undertaken once the Onshore Cable Corridor and Onshore Substation have been confirmed.
- 1.6.1.2 Some of the potential additional data sources are listed below:
- Documents held by Conwy and Denbighshire Archives (where relevant records additional to those held by CPAT are identified)
 - National Library of Wales (NLW)
 - Royal Commission on the Ancient and Historical Monuments of Wales (RCAHMW)
 - Natural Resources Wales (NRW) Lidar data
 - Portable Antiquities Scheme (PAS).
- 1.6.1.3 In addition to the above sources, the historic landscape dataset within the NRW LANDMAP database will be reviewed. Estate maps will also be examined and will be supplemented with engagement with the estates in the area where appropriate. Other appropriate sources may also be identified through the consultation process, e.g. the ongoing consultation with the Archaeological and Heritage Engagement Forum. The examination of these additional data sources, along with the review of the results of the programme of archaeological fieldwork, will enable the preparation of an updated DBA which will then form an annex to the Environmental Statement submitted as part of the DCO application.
- 1.6.1.4 Following selection of the preferred location for the Onshore Substation and the development of preliminary designs for that facility, the preparation of a revised ZTV will allow the identification of designated historic assets whose setting may be affected by its construction and operation. Further site visits will then be undertaken to such historic assets and visualisations may need to be produced to assist with the assessment of impacts and effects

Silvester, R, (2003) *The Roman Roads of East and North-East Wales: A Second Report*, Clwyd Powys Archaeological Trust Report 621.

Tooley, M J, (1978) *Sea-level changes in north-west England during the Flandrian stage*, Oxford.

Tooley, M J, (1985) 'Sea-level changes and coastal morphology in North-West England' in R H Johnson (ed.), *The Geomorphology of North-West England*, Manchester, 94-121.

1.7 References

Aldhouse-Green, S, Pettit, P and Stringer, S, (1996) 'Holocene humans at Pontnewydd and Cae Gronw caves', *Antiquity* 70, 444-7.

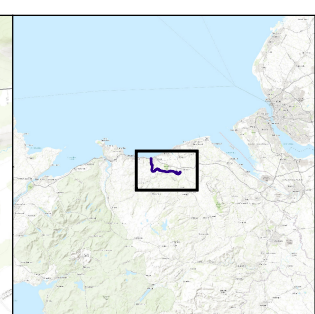
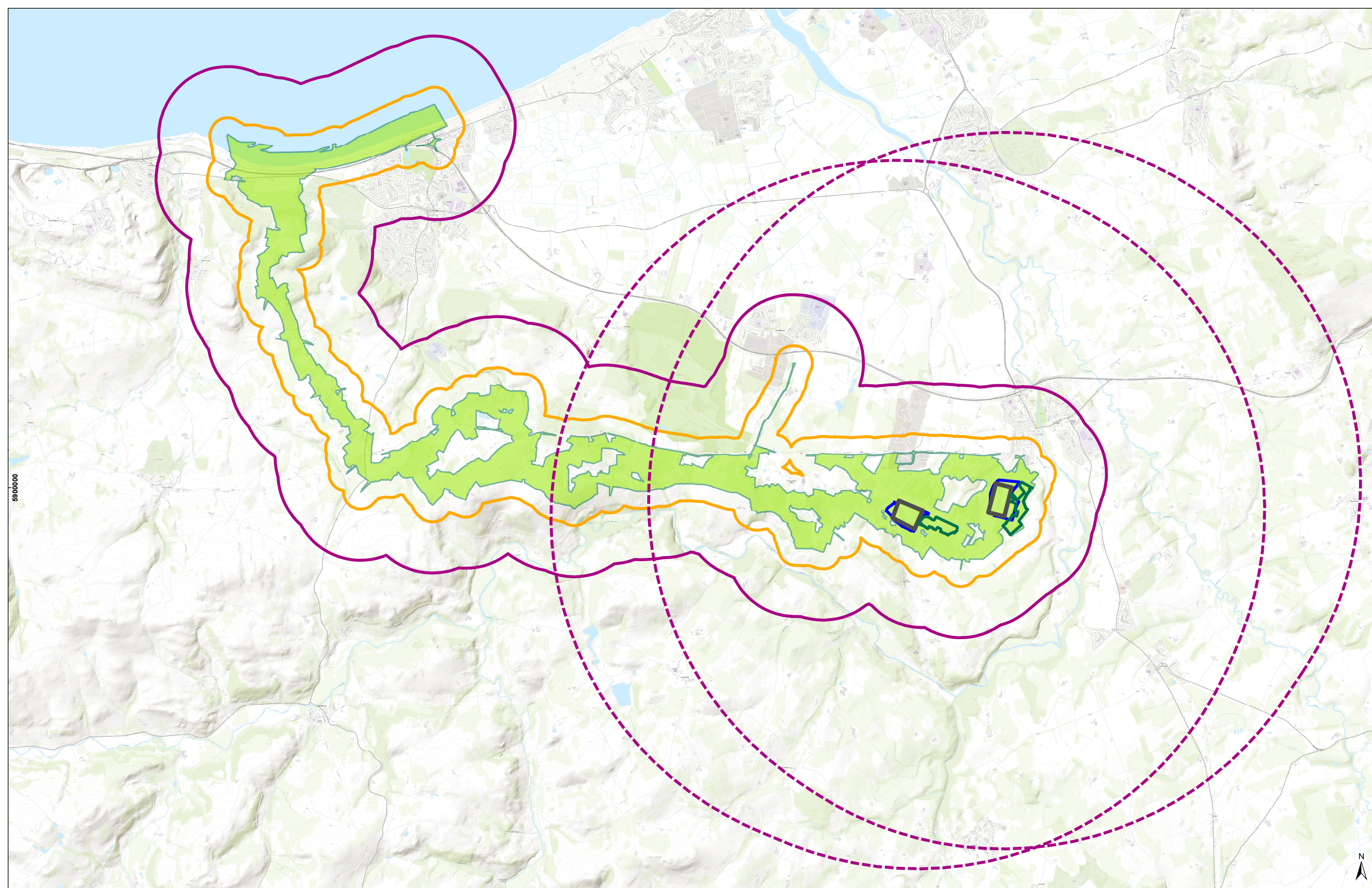
Annon. (1997) The Hedgerow Regulations 1997. Available: <https://www.legislation.gov.uk/ukxi/1997/1160/contents/made>. Accessed January 2023.

Chartered Institute for Archaeologists (CIfA) (2014 updated 2020) Standard and Guidance for Historic Environment Desk Based Assessment. Available: CIfAS&GDBA_2.pdf (archaeologists.net). Accessed January 2023.

Murphy, K, (2002) 'The archaeological resource: chronological overview', in A Davidson (ed.), *The Coastal Archaeology of Wales*, CBA Research Report 131, 45-64.

Appendix A: Figures

A.1 Figure 1: Historic environment study area



- LEGEND**
- Monahans Proposed Onshore Development Area BP-GBR-MONA-DAT-0079
 - 1km Buffer Study Area
 - 5km Buffer Study Area
 - 250m Buffer Study Area
 - Onshore Substation Construction Compound Search Area BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone BP-GBR-MONA-DAT-0079

Drawing Number:

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 1
HISTORIC ENVIRONMENT STUDY AREA

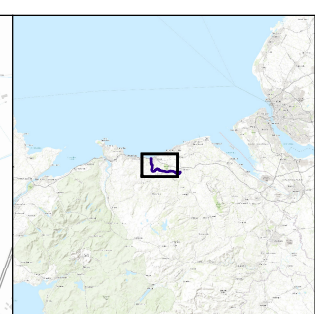
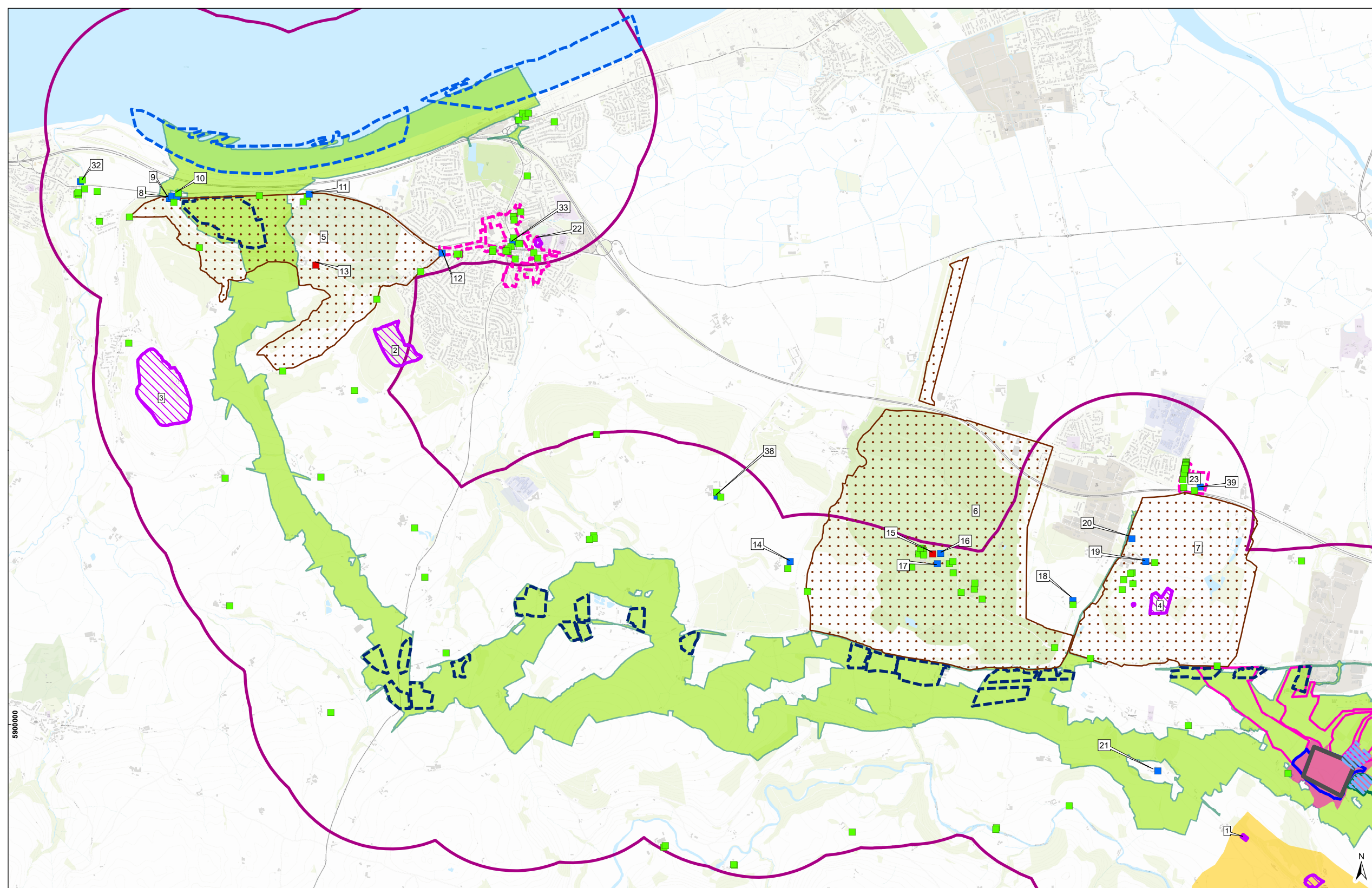
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Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:60,000

Data Sources: Client, **References for all data shown in the map to be added here**

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

VER	DATE	DETAILS	BY	CHECK

A.2 Figure 2a-d: Designated heritage assets



LEGEND

- Mona Proposed Onshore Development Area BP-GBR-MONA-DAT-0079
 - 1000m Site Buffer
 - Attenuation Basin Area of Search BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area BP-GBR-MONA-DAT-0079
 - Onshore Substation Construction Compound Search Area BP-GBR-MONA-DAT-0079
 - Intertidal Area
 - Historic Parks and Gardens
 - Scheduled Monuments
 - Conservation Areas
- Listed Buildings**
- Grade I Listed Building
 - Grade II Listed Building
 - Grade II* Listed Building
- Registered Landscapes of Outstanding and Special Interest**
- HLW (C) 4 Lower Elwy Valley

Drawing Number:
 RPSE-MN-TEM-003-03

Project Name:
MONA OFFSHORE WIND PROJECT

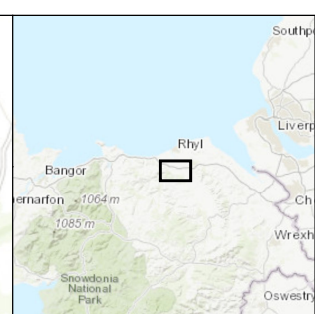
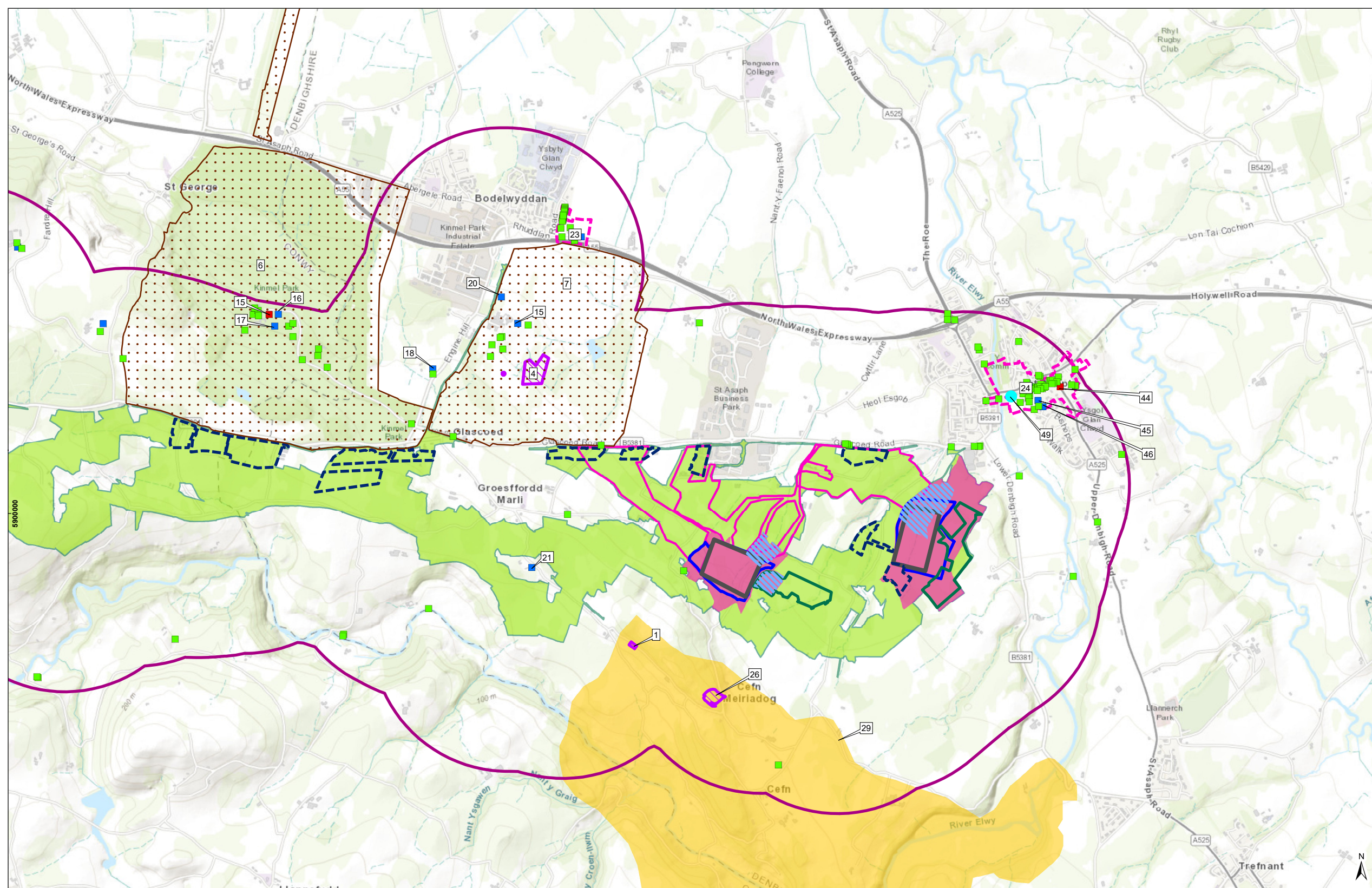
Drawing Title:
FIGURE 2A
DESIGNATED HERITAGE ASSETS 1KM BUFFER

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Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:35,000

Data Sources: Client, **References for all data shown in the map to be added here**

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VER	DATE	DETAILS	BY	CHECK



LEGEND

- Mona Proposed Onshore Development Area BP-GBR-MONA-DAT-0079
- 1000m Site Buffer
- Attenuation Basin Area of Search BP-GBR-MONA-DAT-0079
- Onshore Substation Indicative Footprint BP-GBR-MONA-DAT-0079
- Onshore Substation Zone BP-GBR-MONA-DAT-0079
- Onshore Substation Landscape Planting Search Area BP-GBR-MONA-DAT-0079
- Onshore Substation Access Road Search Area BP-GBR-MONA-DAT-0079
- Temporary Construction Compound Search Area BP-GBR-MONA-DAT-0079
- Onshore Substation Construction Compound Search Area BP-GBR-MONA-DAT-0079
- Listed Buildings**
- Grade I Listed Building
- Grade II Listed Building
- Grade II* Listed Building
- Historic Parks and Gardens
- Conservation Areas
- Scheduled Monuments
- Registered Landscapes of Outstanding and Special Interest**
- HLW (C) 4 Lower Elwy Valley

Drawing Number:
 RPSE-MN-TEM-003-03

Project Name:
MONA OFFSHORE WIND PROJECT

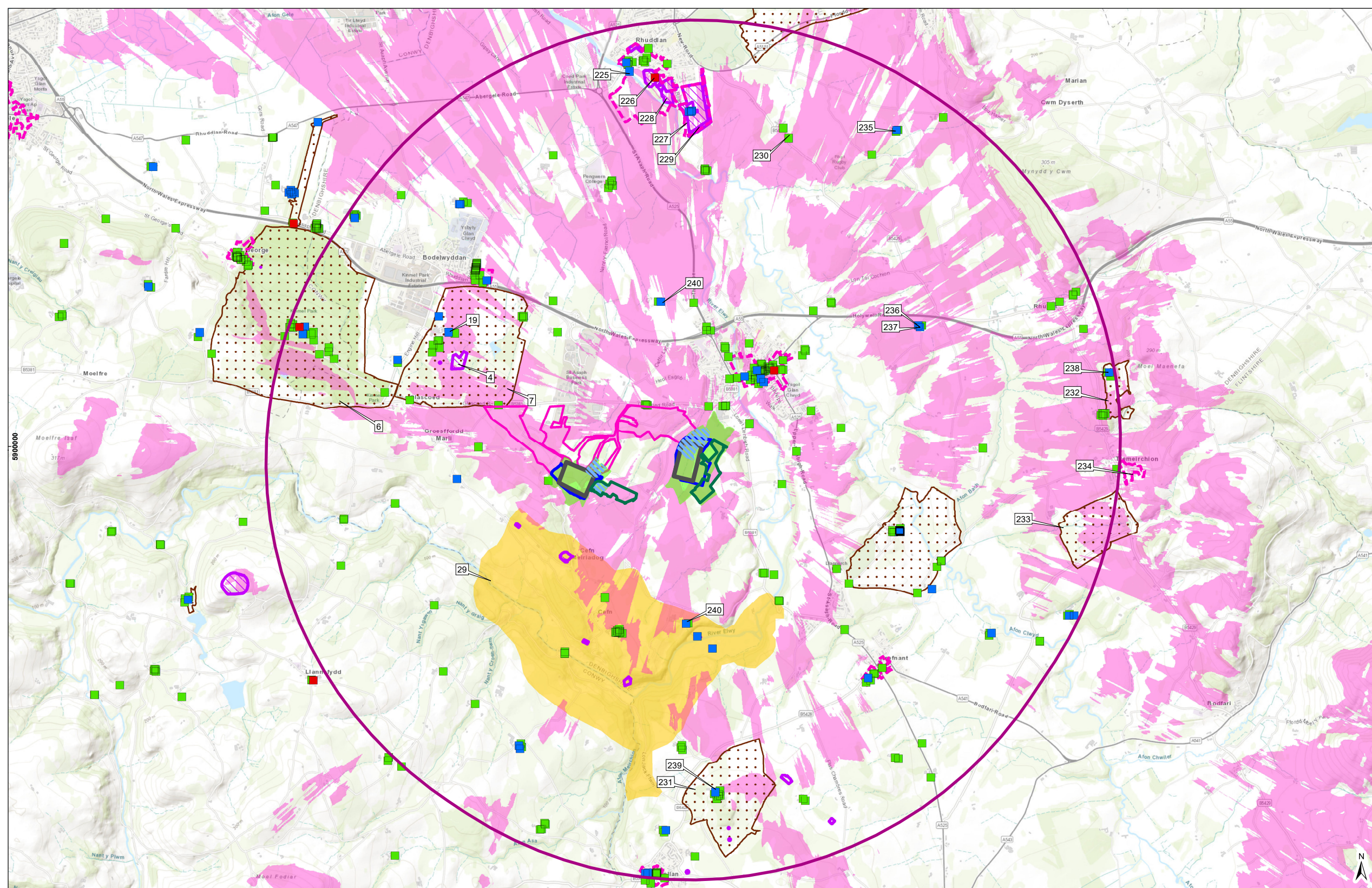
Drawing Title:
FIGURE 2B
DESIGNATED HERITAGE ASSETS 1KM BUFFER

Geodetic Information:
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Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:30,000
















Data Sources: Client, **References for all data shown in the map to be added here**

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

VER	DATE	DETAILS	BY	CHECK



LEGEND

-  Onshore Substation
-  Indicative Footprint BP-GBR-MONA-DAT-0079
-  Onshore Substation Zone BP-GBR-MONA-DAT-0079
-  Onshore Substation Landscape Planting Search Area BP-GBR-MONA-DAT-0079
-  Onshore Substation Access Road Search Area BP-GBR-MONA-DAT-0079
-  Attenuation Basin Area of Search BP-GBR-MONA-DAT-0079
-  5km Buffer
-  Onshore Substation Construction Compound Search Area BP-GBR-MONA-DAT-0079
-  Conservation Areas
-  Scheduled Monuments
-  Registered Parks and Gardens
- Listed Buildings**
-  Grade I
-  Grade II
-  Grade II*
- Registered Landscapes of Outstanding and Special Interest**
-  HLW (C) 4 Lower Elwy Valley



Drawing Number:

RPSE-MN-TEM-003-03

VER	DATE	DETAILS	BY	CHECK

Project Name:
MONA OFFSHORE WIND PROJECT

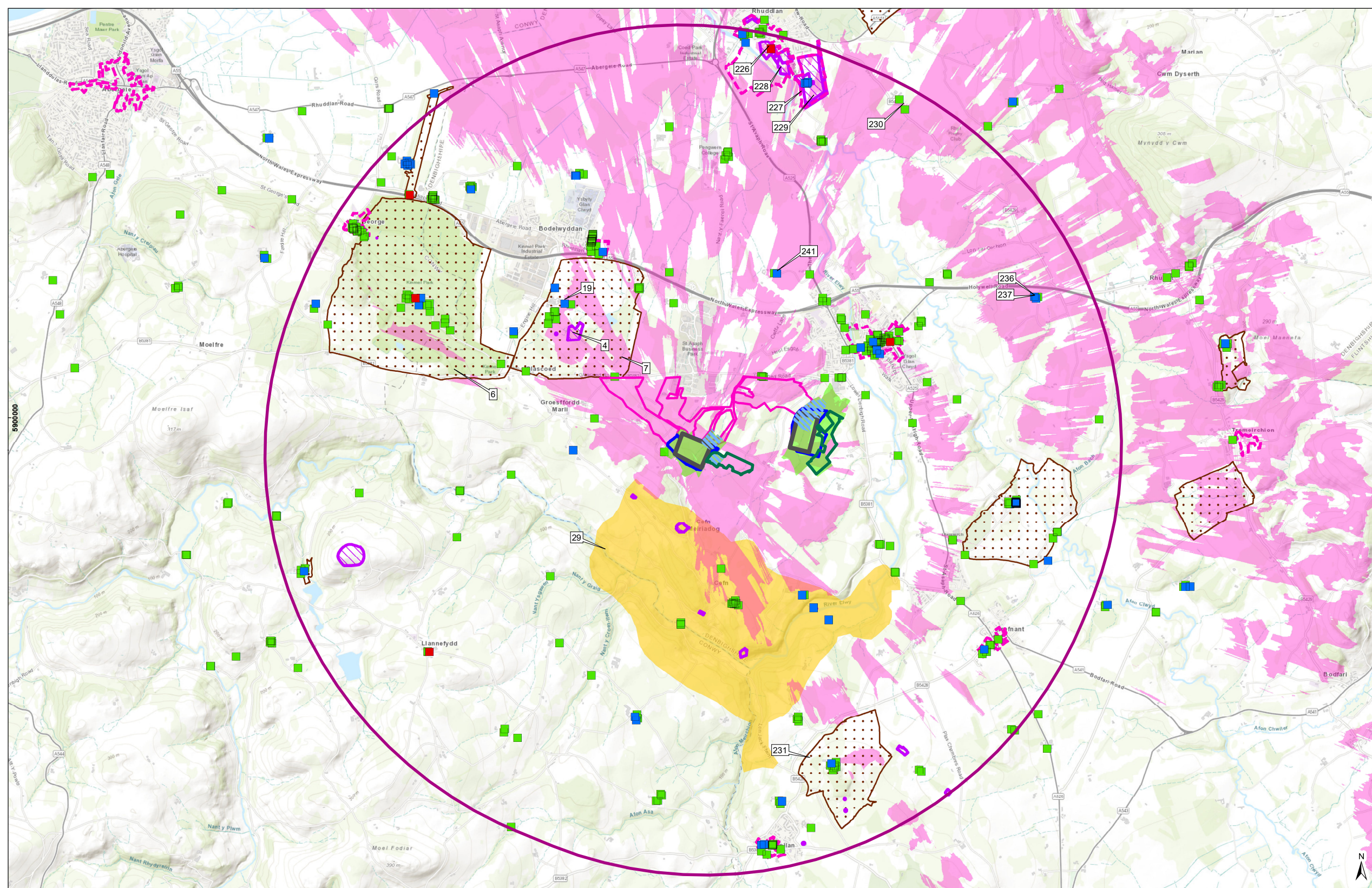
Drawing Title:
FIGURE 2C
SUBSTATION OPTION 7 LOCATION DESIGNATED HERITAGE ASSETS 5KM BUFFER

Geodetic Information:
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Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:50,000

Data Sources: Client, **References for all data shown in the map to be added here**

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LEGEND

- 5km Buffer
- Indicative Footprint BP-GBR-MONA-DAT-0079
- Onshore Substation Zone BP-GBR-MONA-DAT-0079
- Onshore Substation Landscape Planting Search Area BP-GBR-MONA-DAT-0079
- Onshore Substation Access Road Search Area BP-GBR-MONA-DAT-0079
- Attenuation Basin Area of Search BP-GBR-MONA-DAT-0079
- Onshore Substation Construction Compound Search Area BP-GBR-MONA-DAT-0079
- Conservation Areas
- Scheduled Monuments
- Registered Parks and Gardens

Listed Buildings

- Grade I
- Grade II
- Grade II*

Registered Landscapes of Outstanding and Special Interest

- HLW (C) 4 Lower Elwy Valley



Drawing Number:
RPSE-MN-TEM-003-03

VER	DATE	DETAILS	BY	CHECK

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
**FIGURE 2D
 SUBSTATION OPTION 2 LOCATION DESIGNATED HERITAGE
 ASSETS 5KM BUFFER**

Geodetic Information:
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 Projection: ETRS 1989 UTM Zone 30N
 Scale@379mmx231mm: 1:50,000

Data Sources: Client, **References for all data shown in the map to be added here**

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

A.3 Figure 3a-b: Non-designated heritage assets 250m buffer

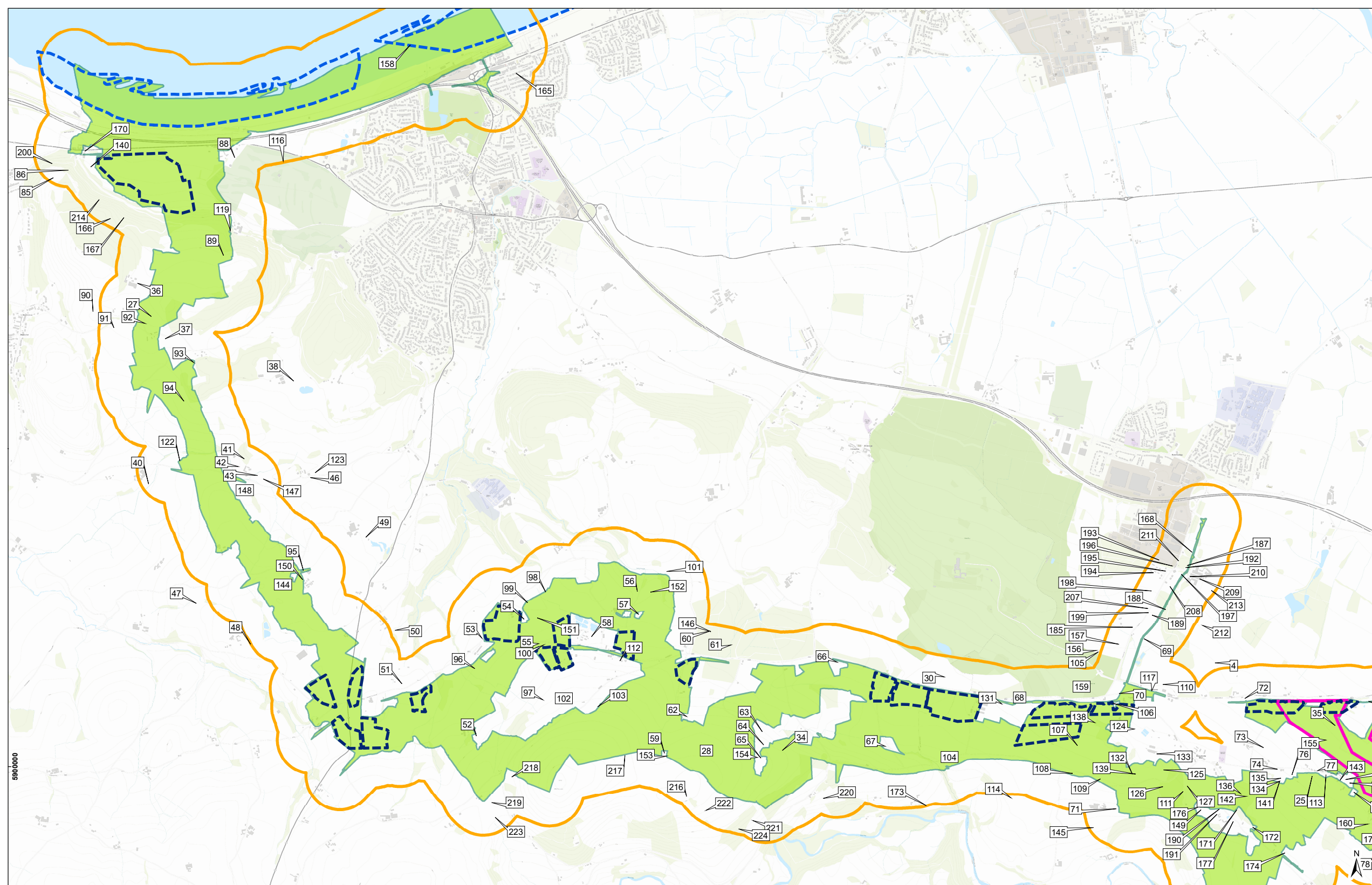
LEGEND

- Mona Proposed Onshore Development Area BP-GBR-MONA-DAT-0079
- Onshore Substation Access Road Search Area BP-GBR-MONA-DAT-0079
- Temporary Construction Compound Search Area BP-GBR-MONA-DAT-0079
- 250m Site Buffer
- Intertidal Area



Drawing Number:
RPSE-MN-TEM-003-03

VER	DATE	DETAILS	BY	CHECK



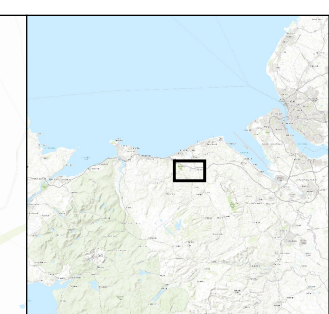
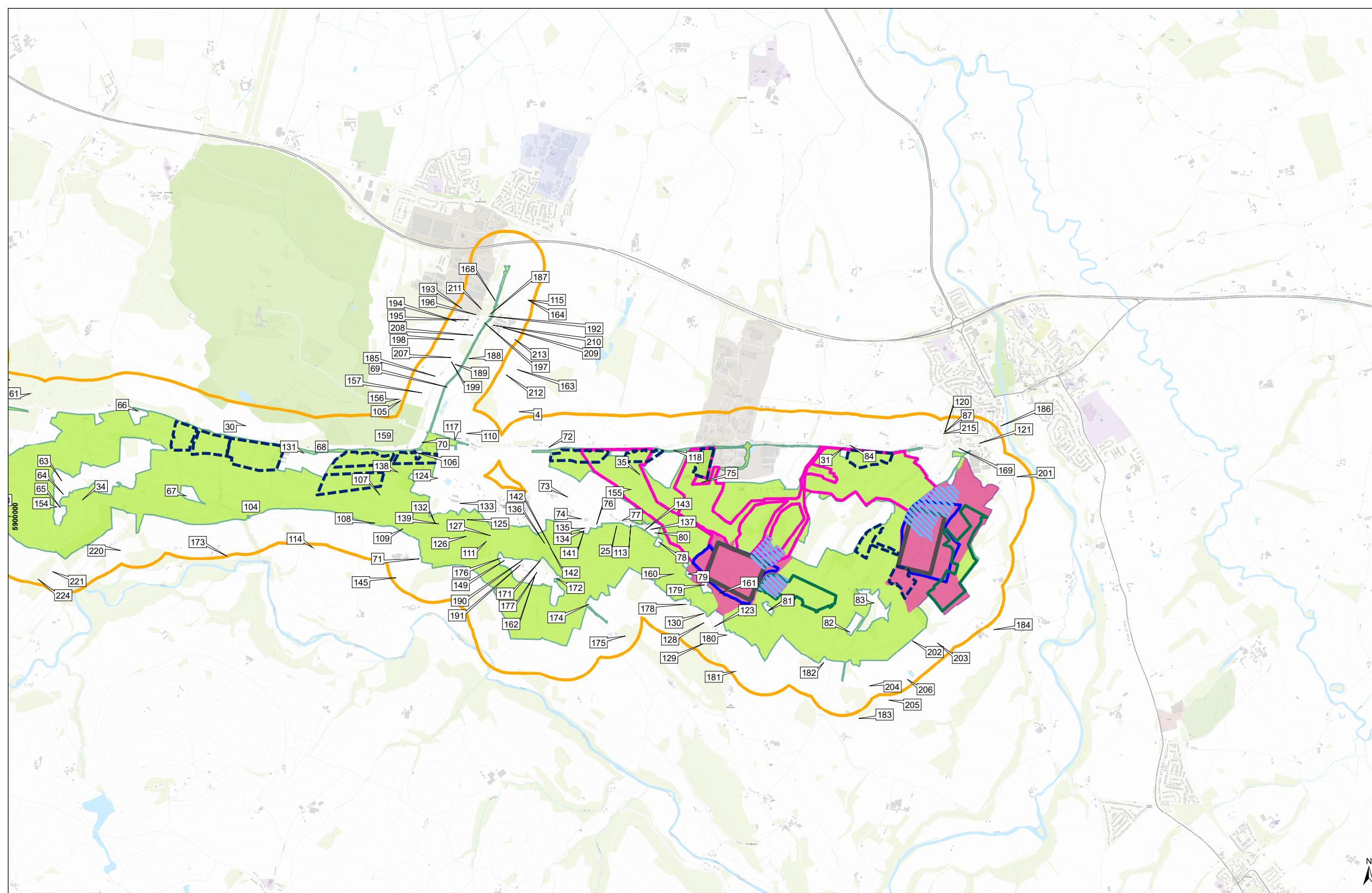
Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 3A
NON-DESIGNATED HERITAGE ASSETS 250M BUFFER

Geodetic Information:
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Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:30,000

Data Sources: Client, **References for all data shown in the map to be added here**

Service Layer Credits:



- LEGEND**
- Mona Proposed Onshore Development Area BP-GBR-MONA-DAT-0079
 - Attenuation Basin Area of Search BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area BP-GBR-MONA-DAT-0079
 - Onshore Substation Construction Compound Search Area BP-GBR-MONA-DAT-0079
 - 250m Site Buffer

Partners in UK offshore wind

Drawing Number:
RPSE-MN-TEM-003-03

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 3B
NON-DESIGNATED HERITAGE ASSETS 250M BUFFER

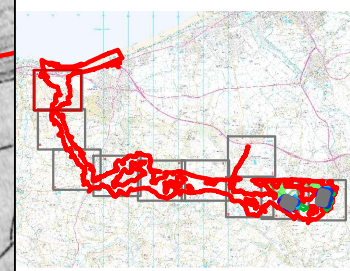
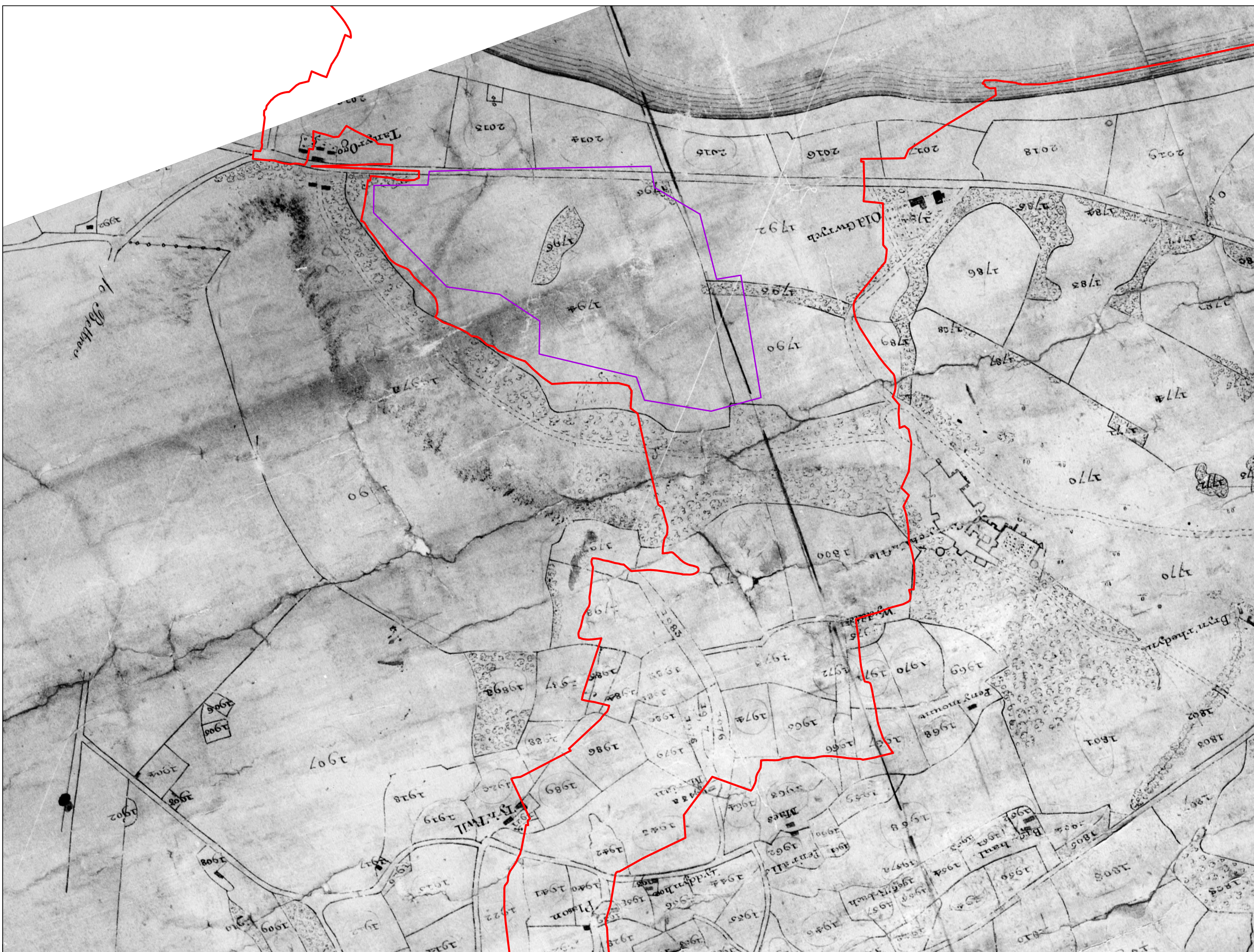
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Data Sources: Client, **References for all data shown in the map to be added here**

Service Layer Credits:

VER	DATE	DETAILS	BY	CHECK

A.4 Figure 4a-j: Tithe map of the Mona Proposed Onshore Development Area



- LEGEND**
- Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



Drawing Number:

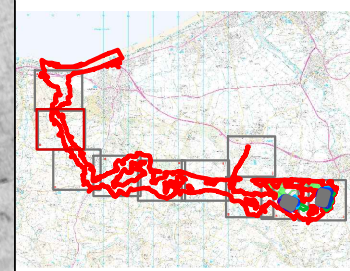
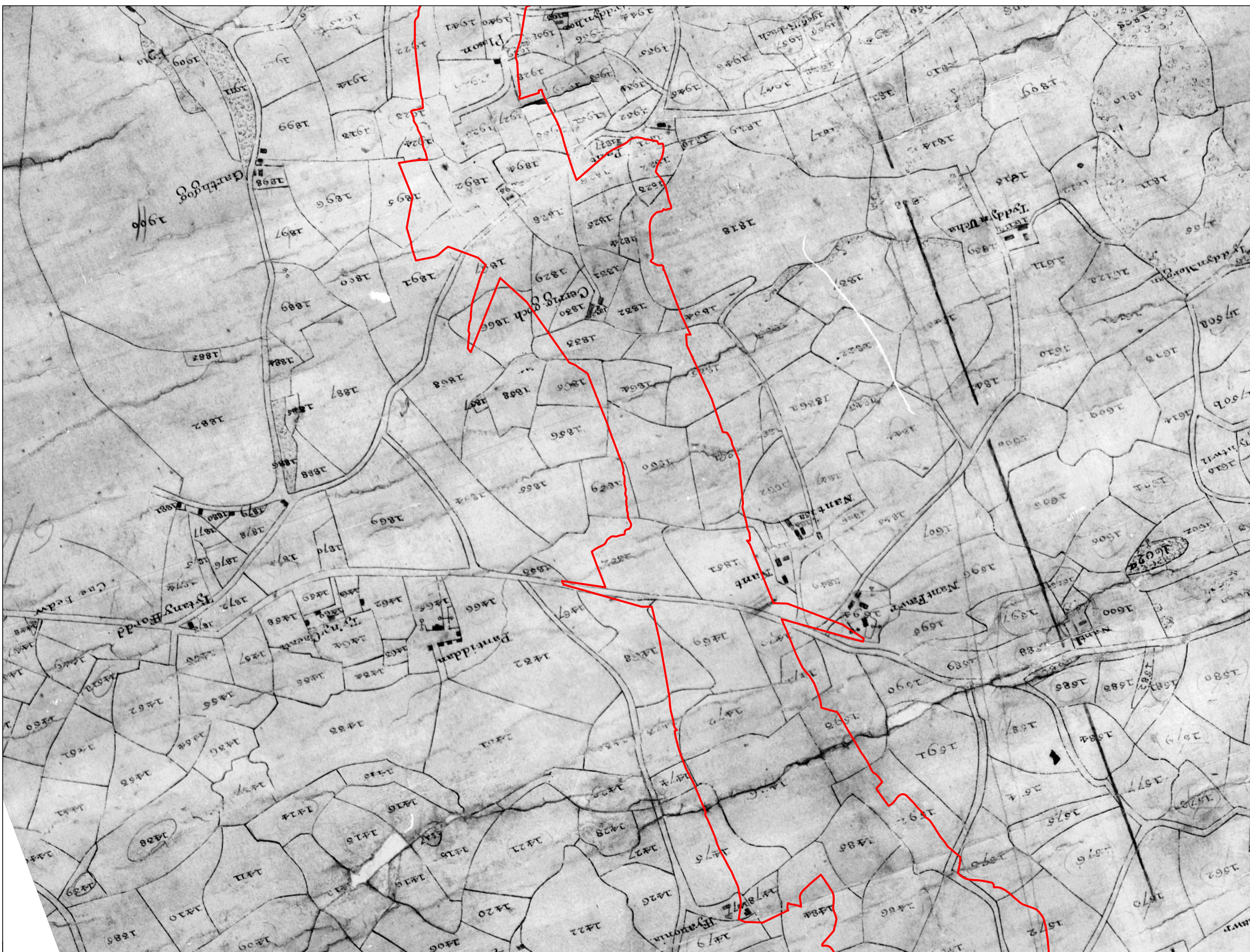
Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 4A
TITHE MAP COMPOSITE

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- LEGEND**
- Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



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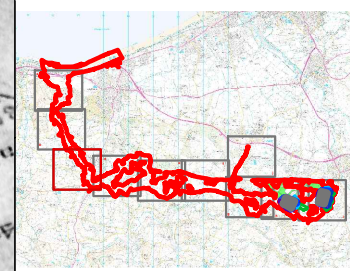
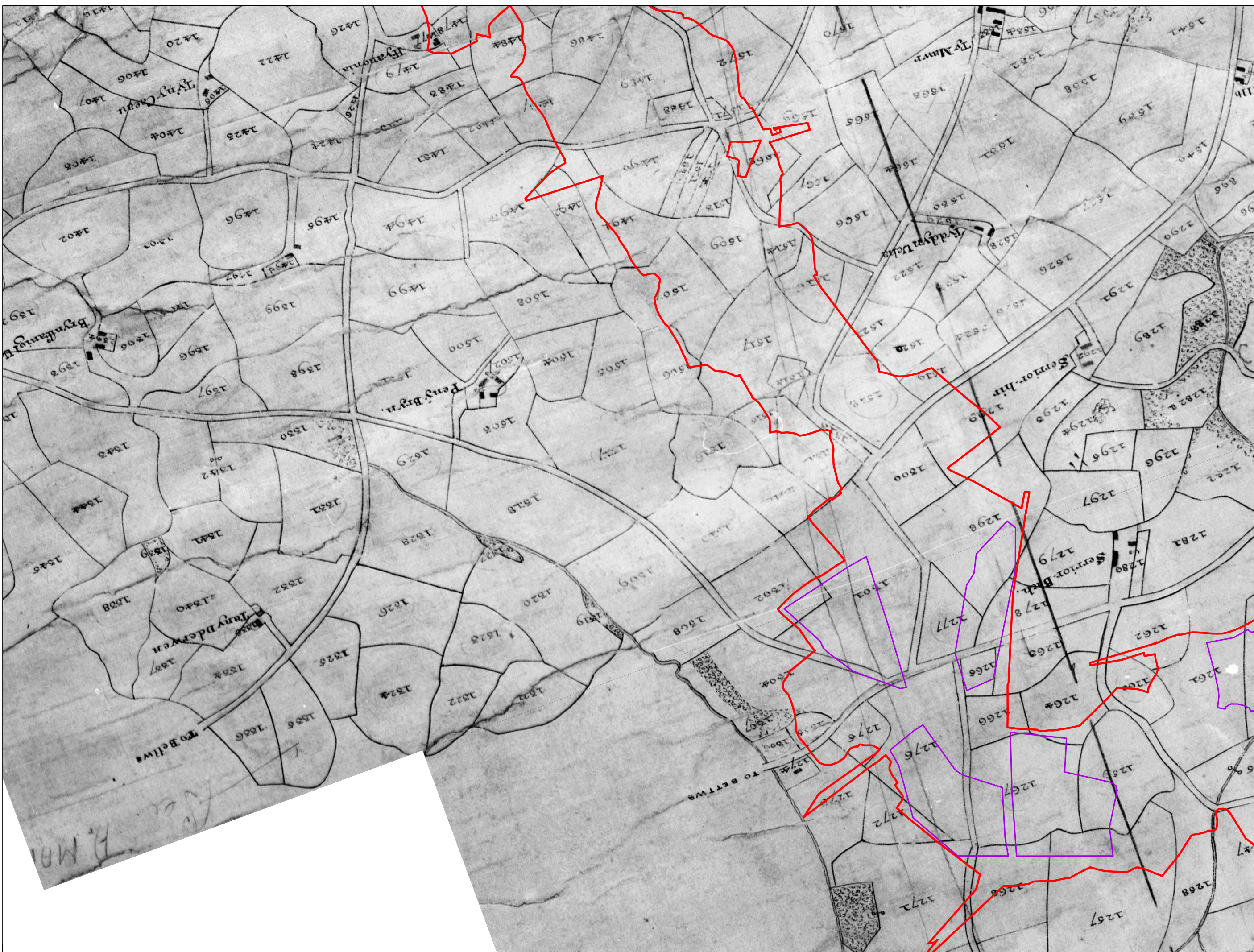
Project Name:
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Drawing Title:
FIGURE 4B
TITHE MAP COMPOSITE

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- LEGEND**
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BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



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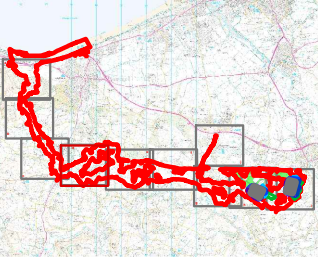
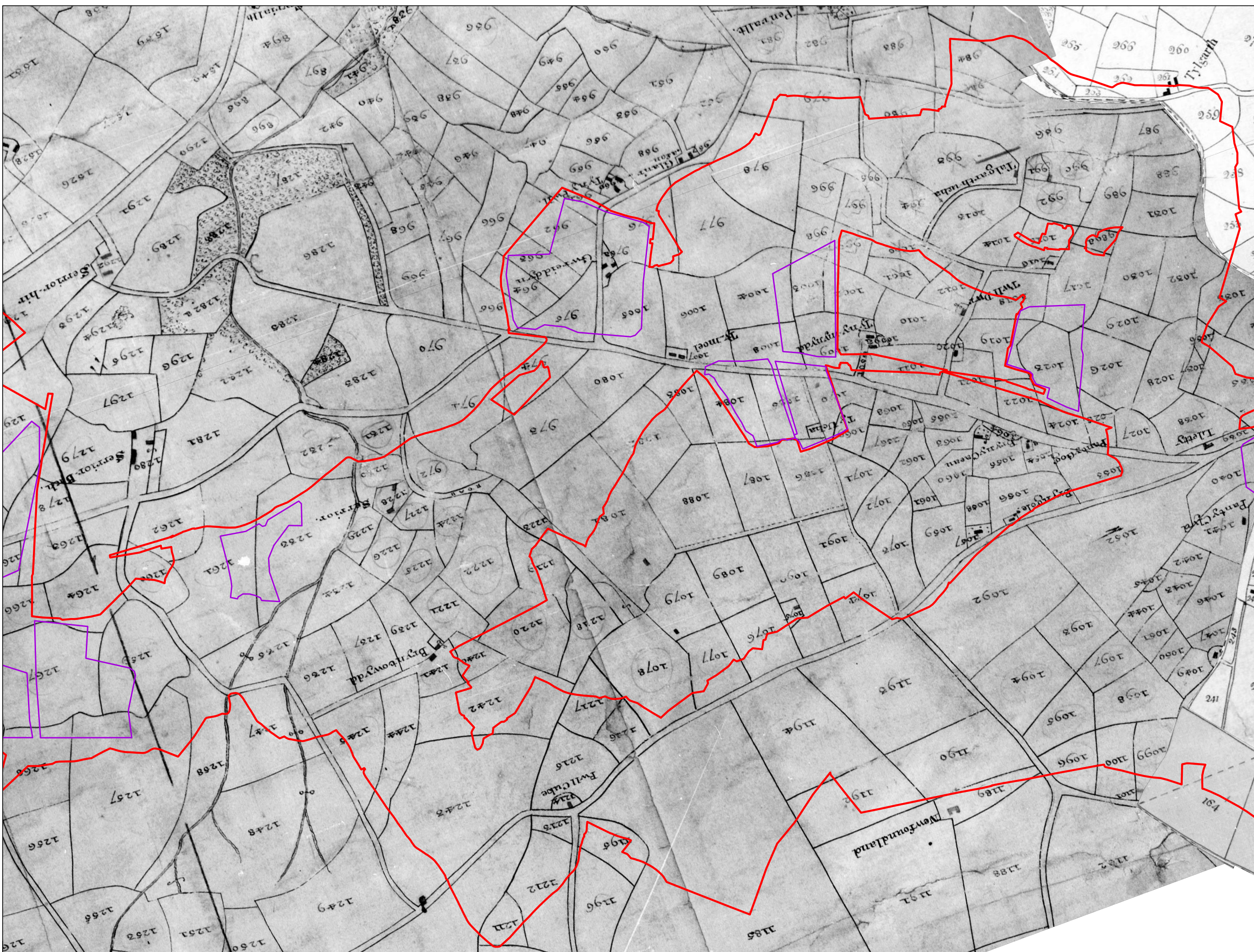
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FIGURE 4C
TITHE MAP COMPOSITE

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LEGEND

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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Zone
BP-GBR-MONA-DAT-0079
- Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
- ▨ Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



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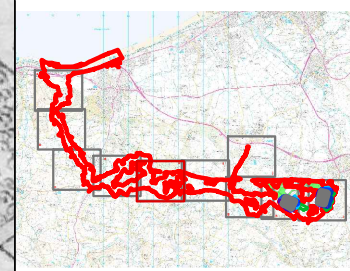
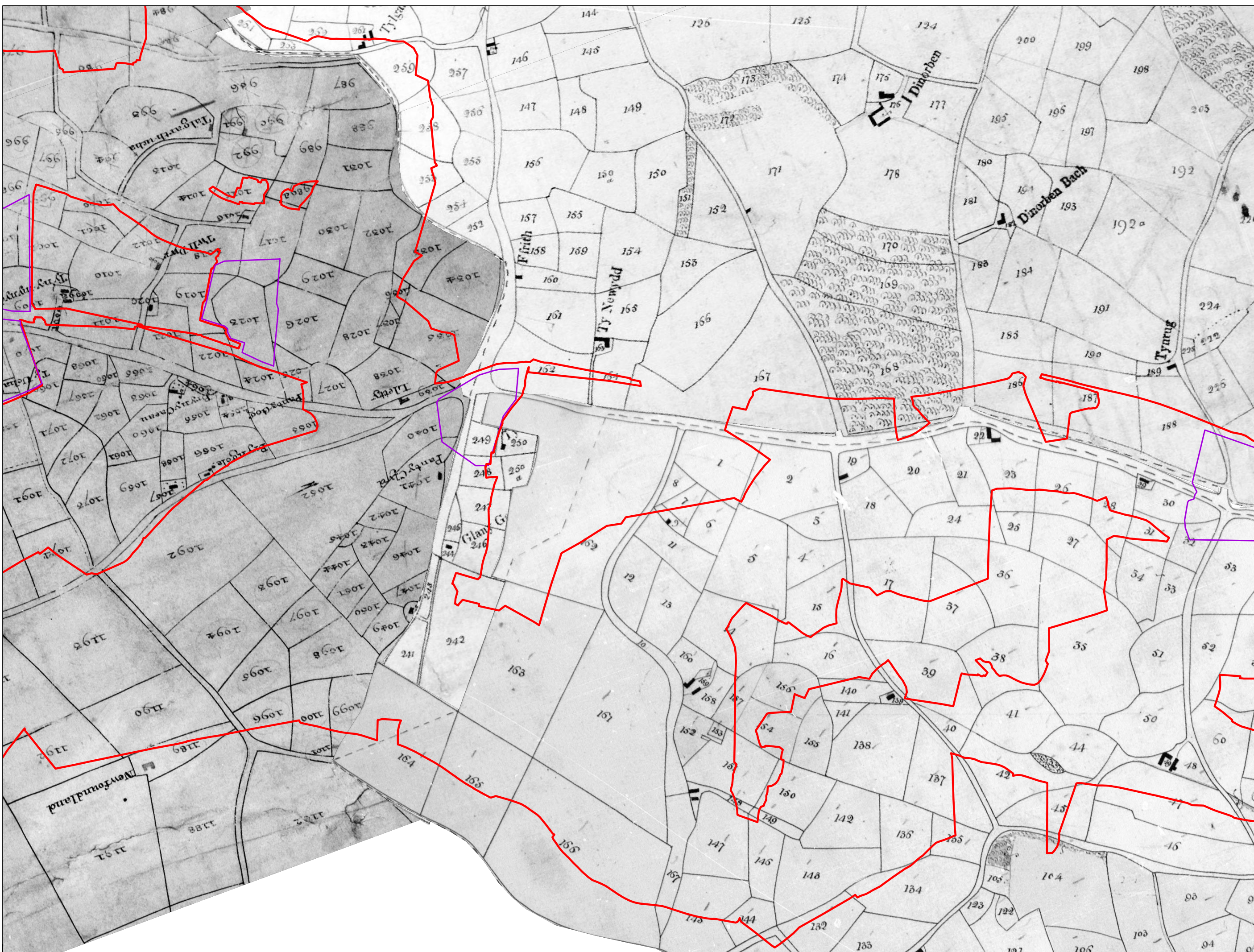
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079



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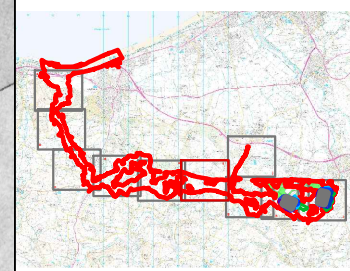
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BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



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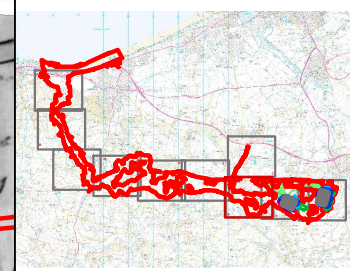
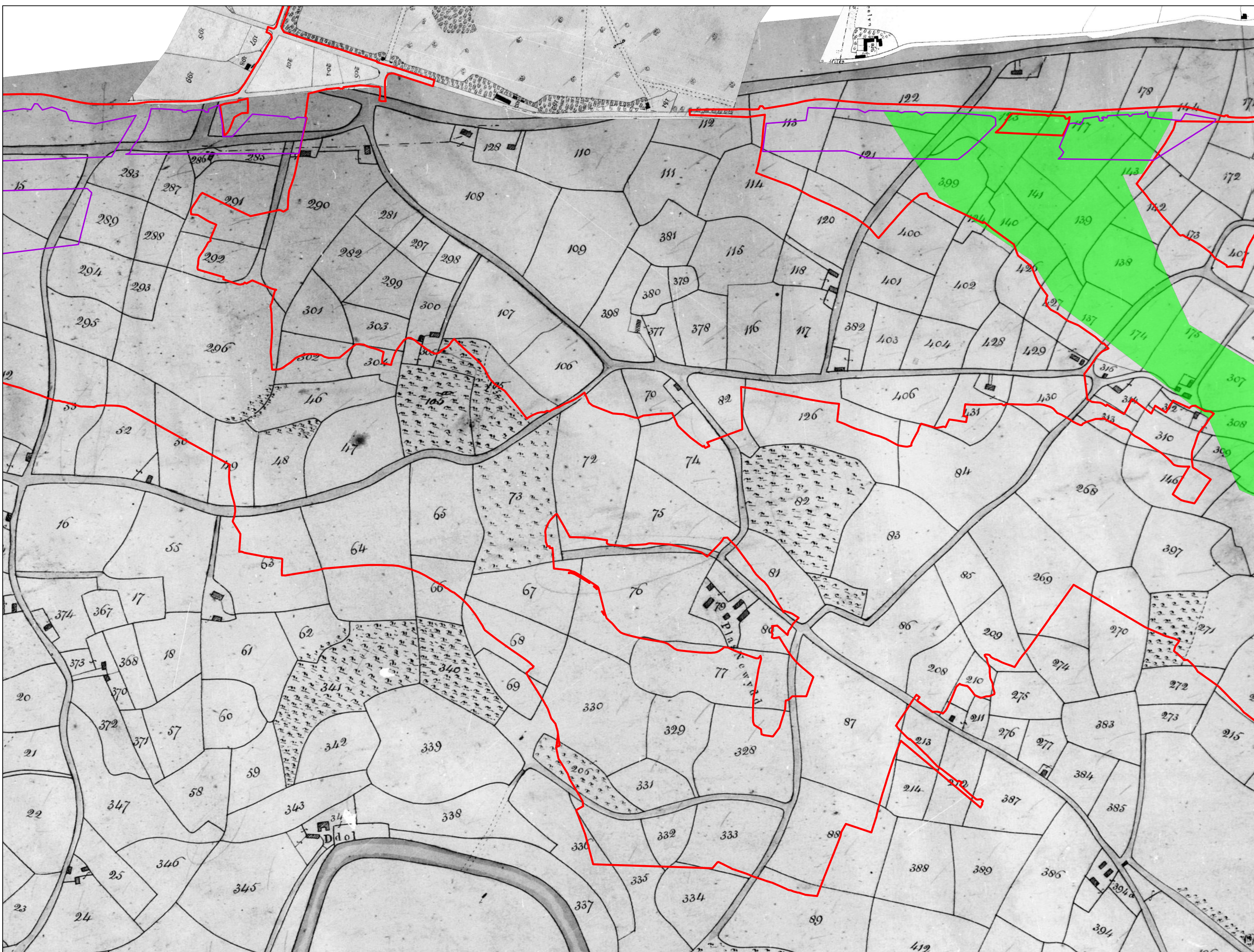
Project Name:
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TITHE MAP COMPOSITE

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BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



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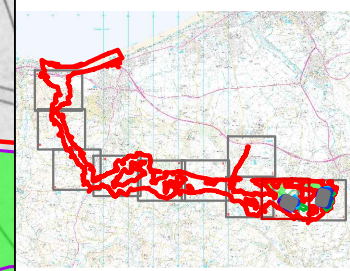
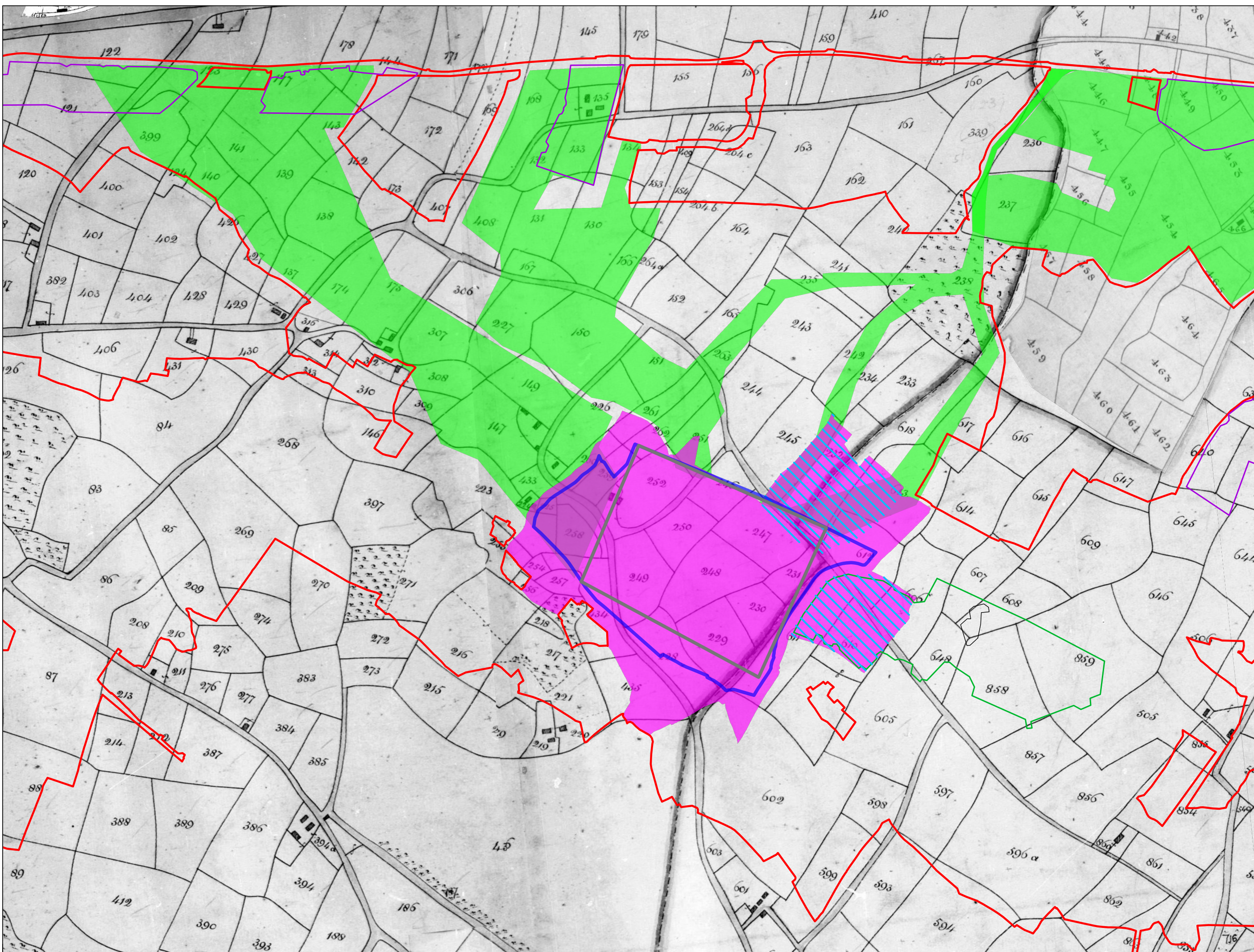
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FIGURE 4G
TITHE MAP COMPOSITE

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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079



Drawing Number:

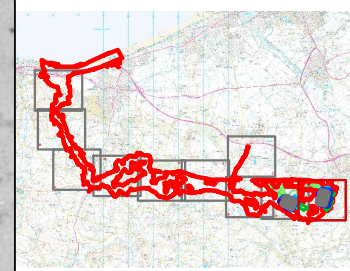
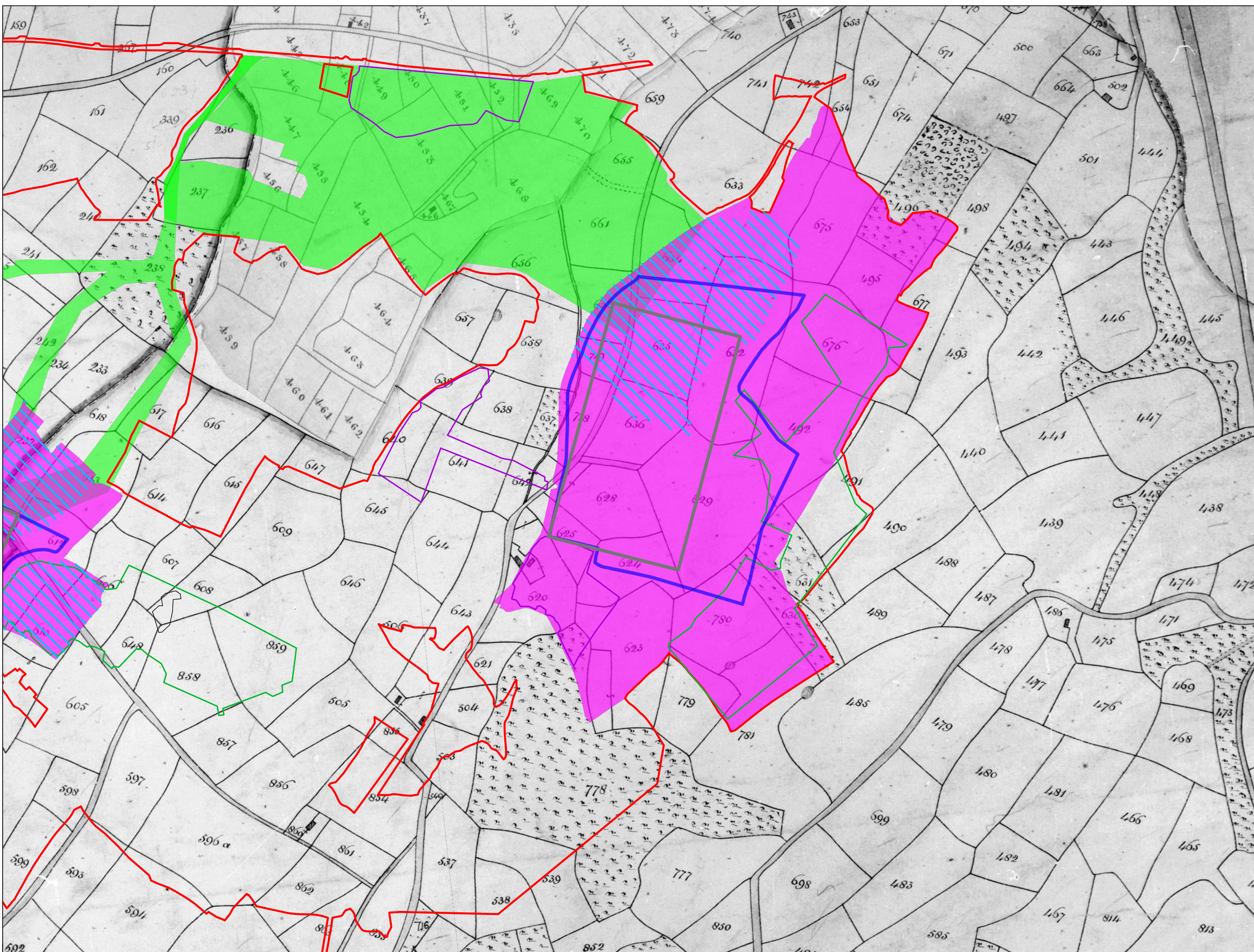
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FIGURE 4H
TITHE MAP COMPOSITE

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- LEGEND**
- ▭ Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079



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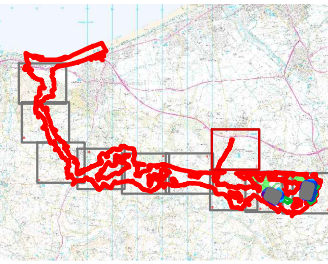
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FIGURE 41
TITHE MAP COMPOSITE

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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 4J
TITHE MAP COMPOSITE

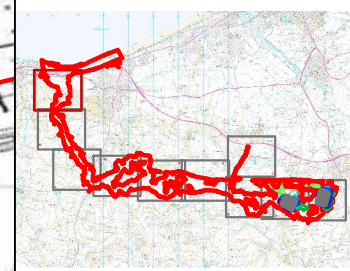
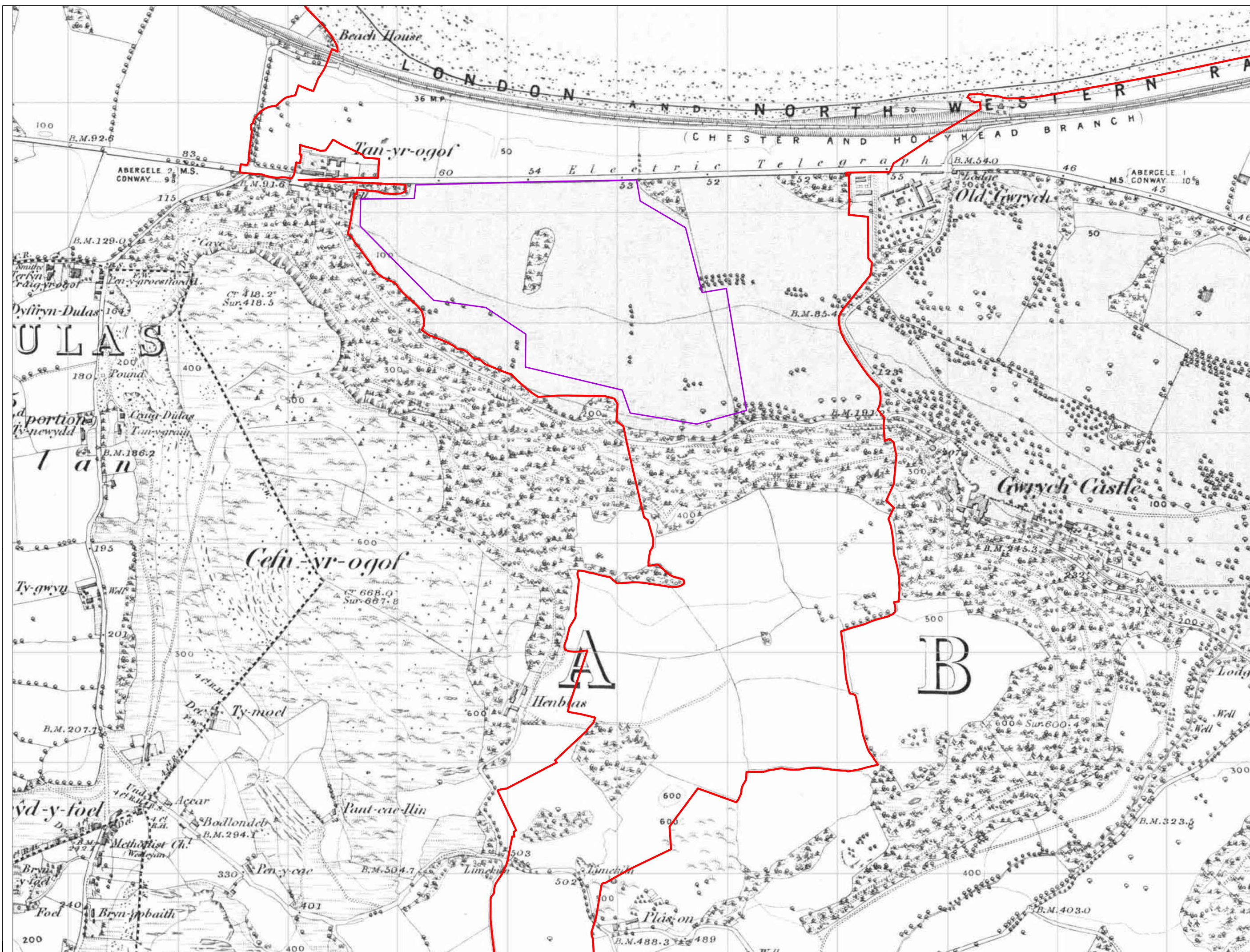
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Drawing Number:

A.5 Figure 5a-j: 1871-1875: OS maps of the Mona Proposed Onshore Development Area



- LEGEND**
- ▭ Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - ▭ Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
 - ▭ Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - ▭ Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
 - ▨ Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - ▭ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



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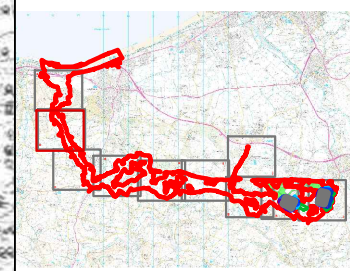
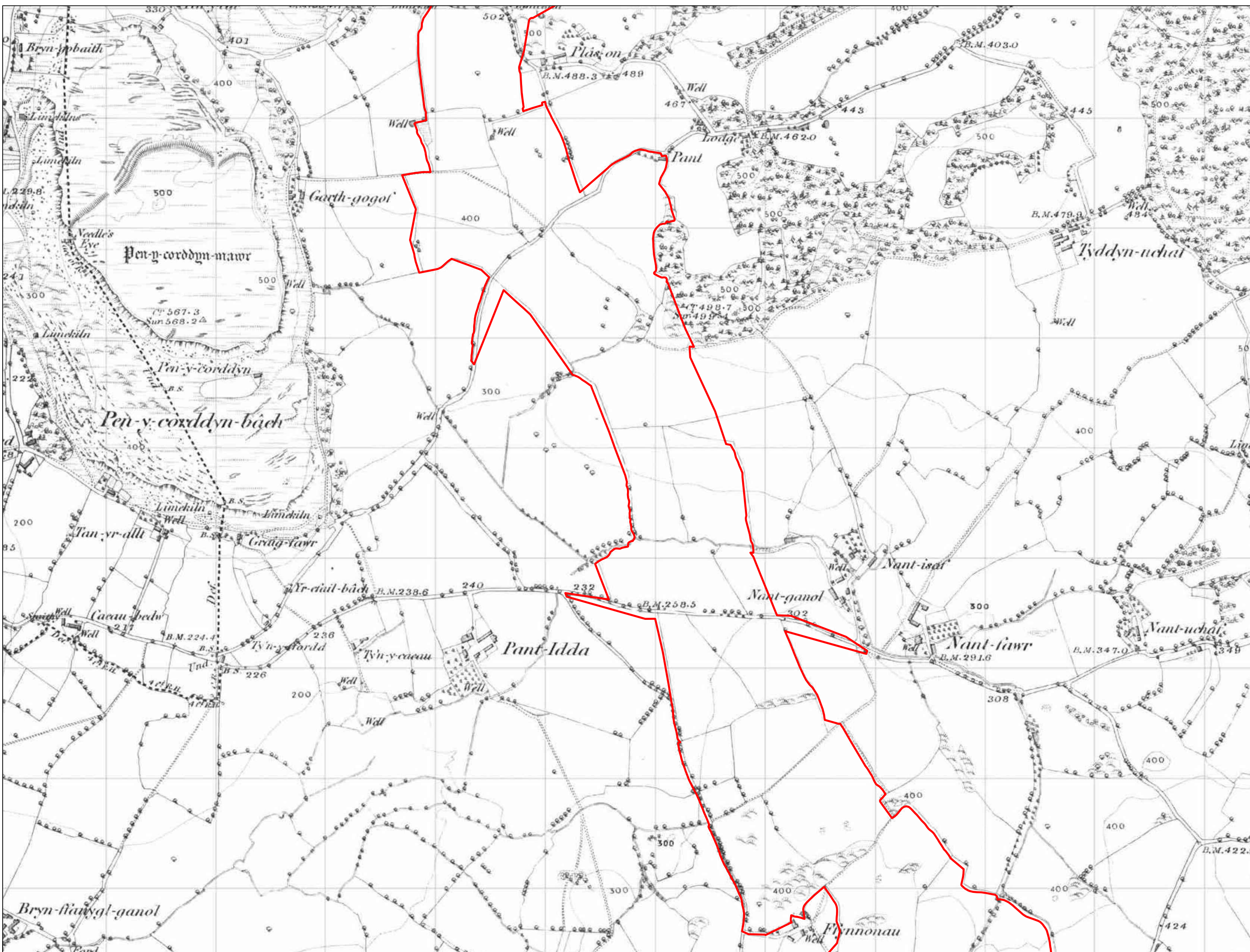
Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 5A
1871-75 ORDNANCE SURVEY MAP

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- LEGEND**
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079



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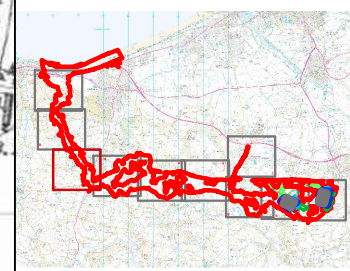
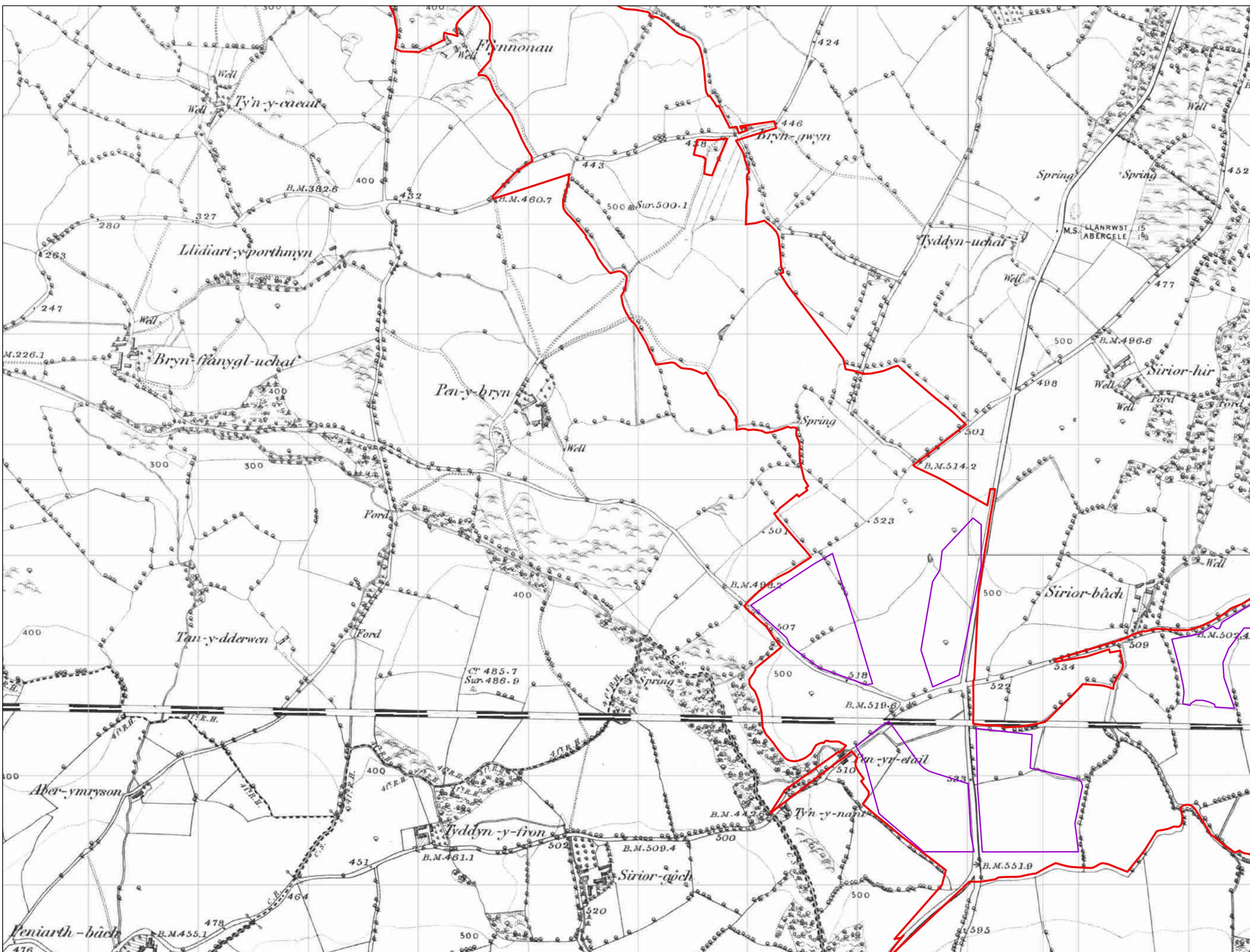
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MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 5B
1871-75 ORDNANCE SURVEY MAP

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- ### LEGEND
- Onshore Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 5C
1871-75 ORDNANCE SURVEY MAP

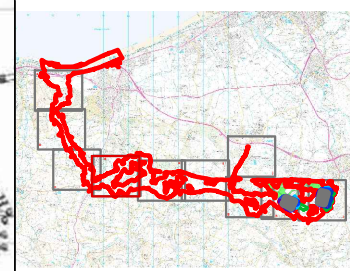
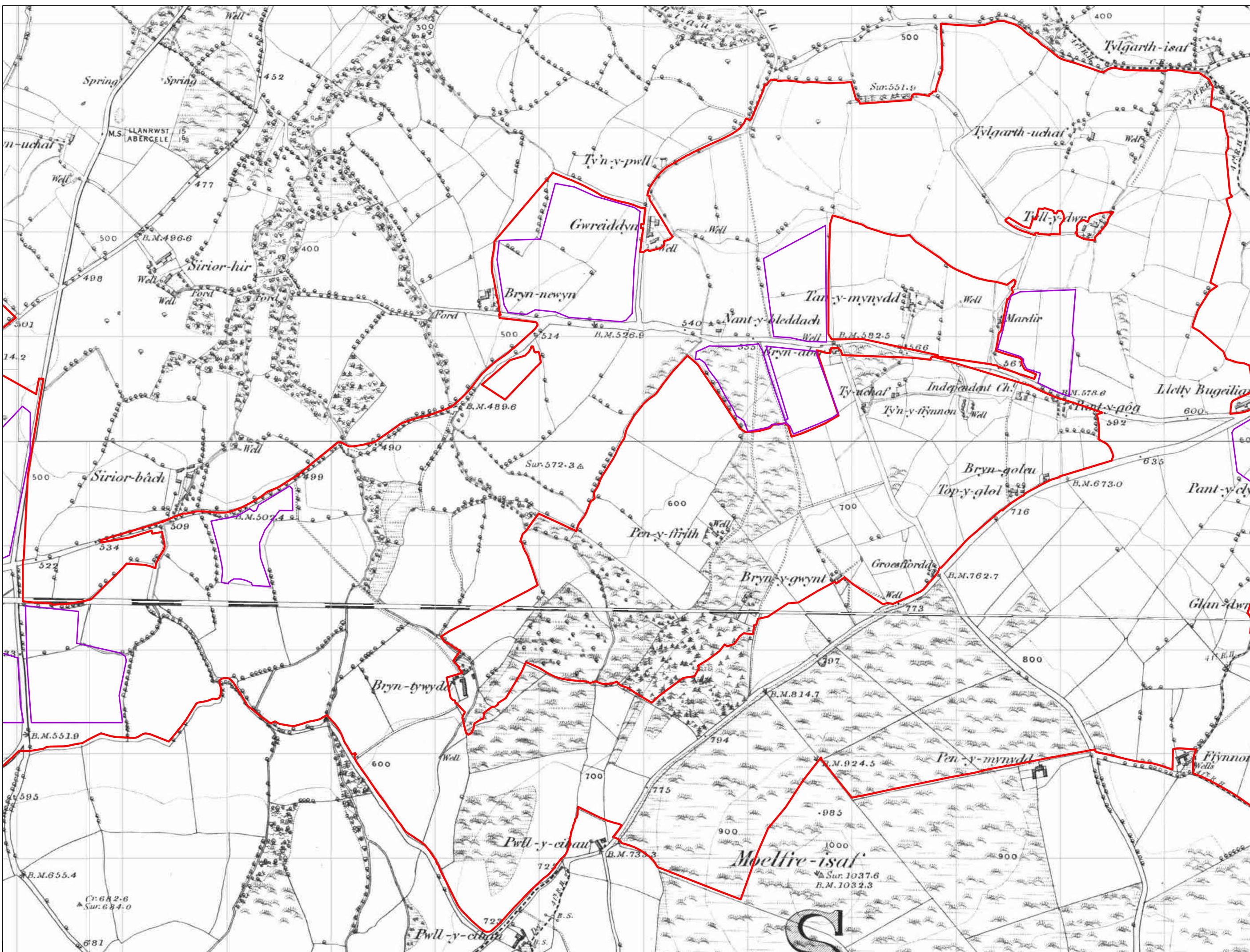
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- LEGEND**
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079

Project Name:
MONA OFFSHORE WIND PROJECT

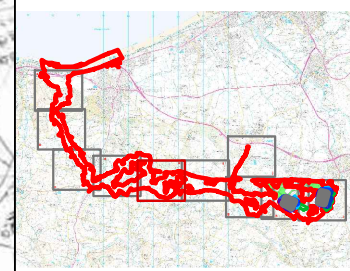
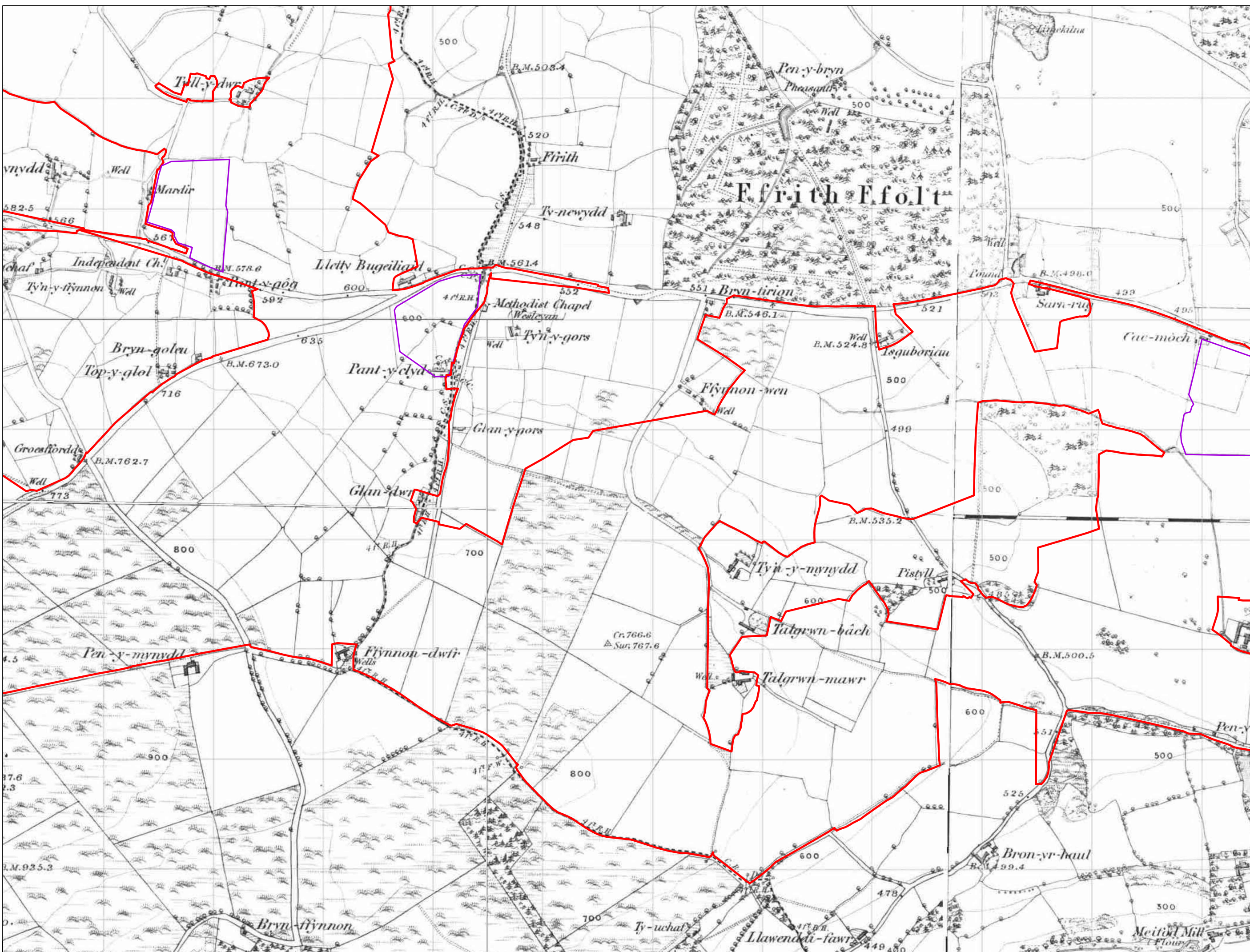
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FIGURE 5D
1871-75 ORDNANCE SURVEY MAP

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BP-GBR-MONA-DAT-0079

Project Name:
MONA OFFSHORE WIND PROJECT

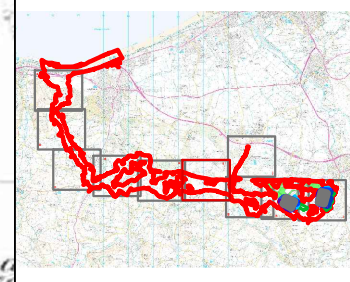
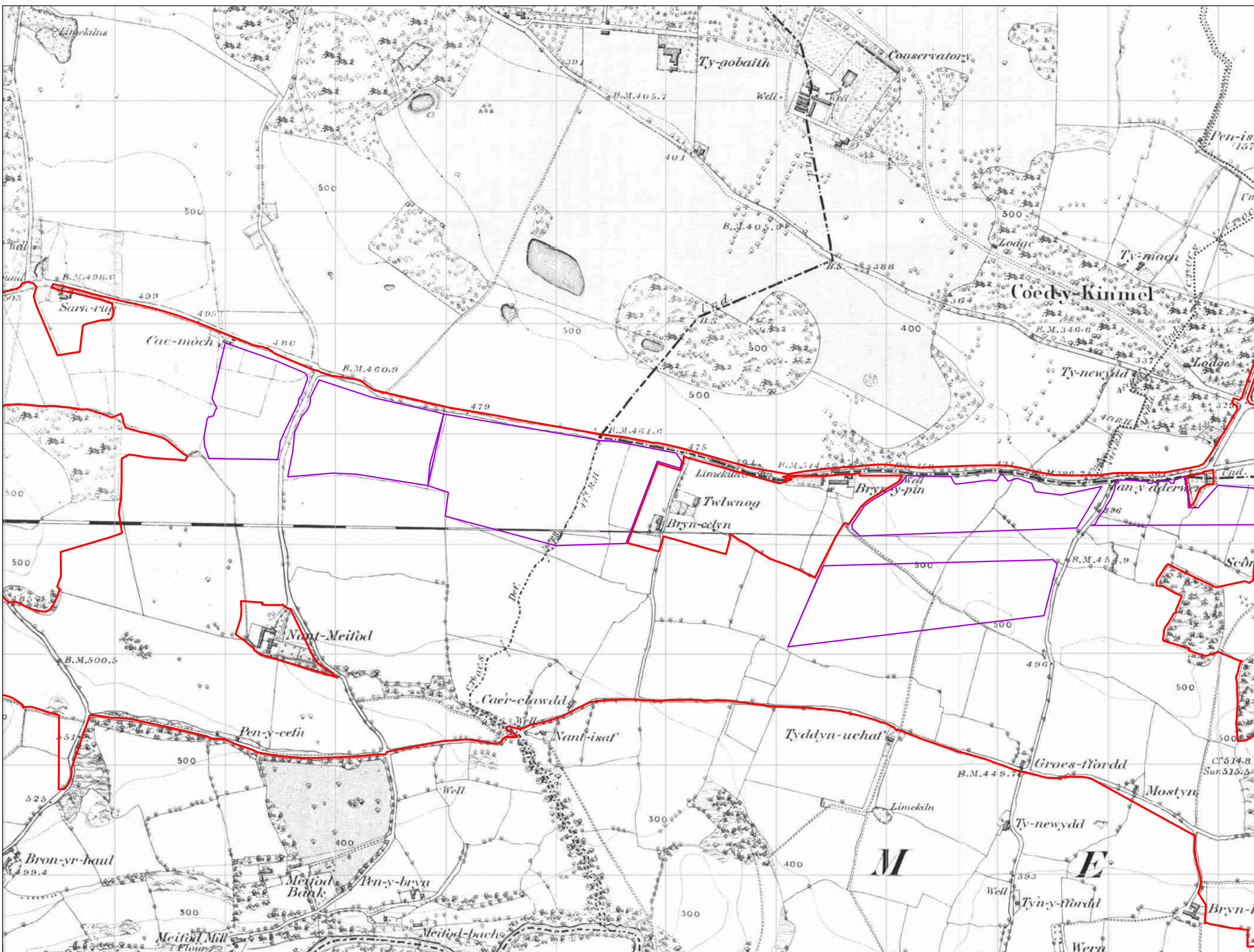
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1871-75 ORDNANCE SURVEY MAP

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BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 5F
1871-75 ORDNANCE SURVEY MAP

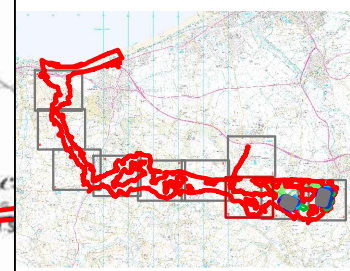
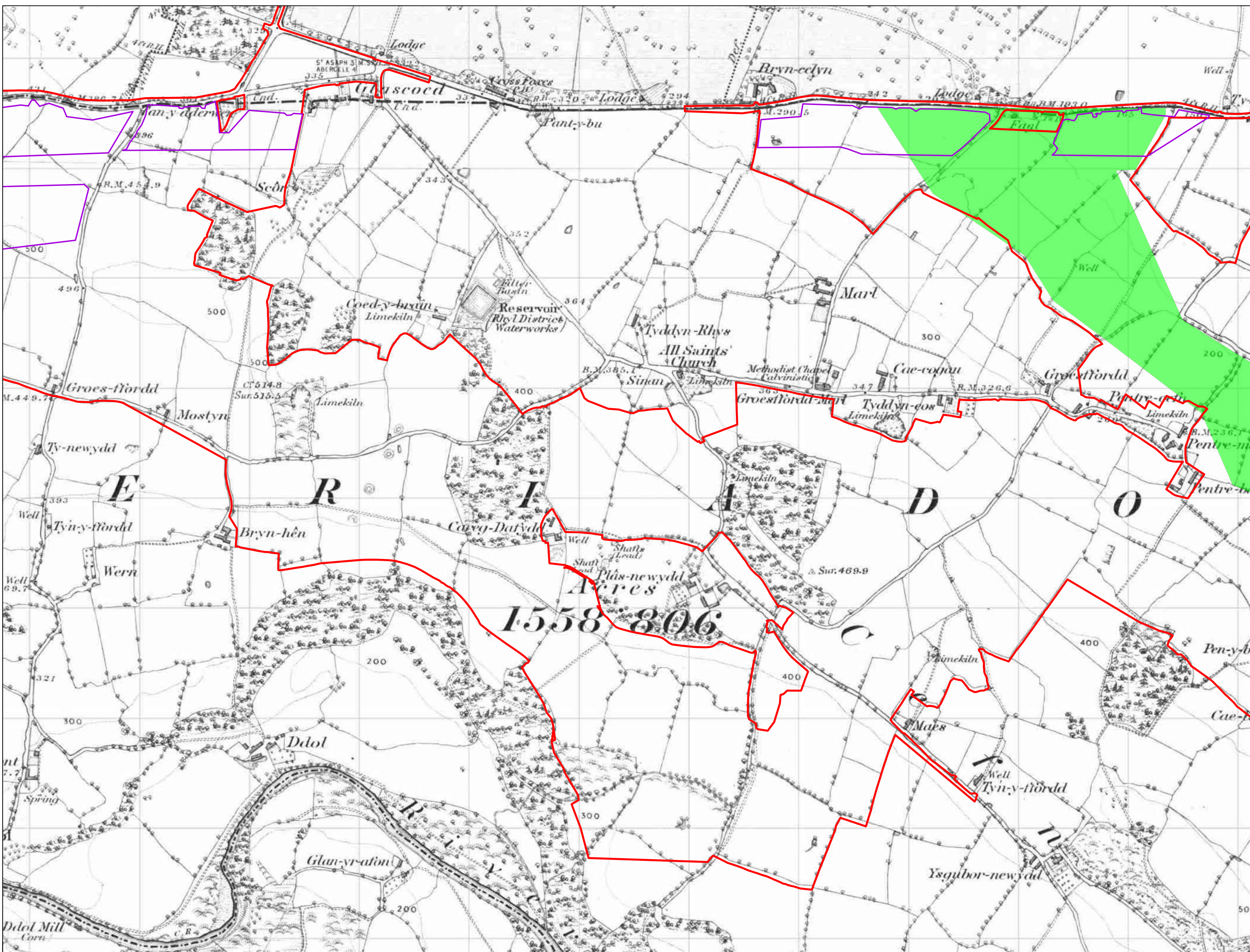
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Project Name:
MONA OFFSHORE WIND PROJECT

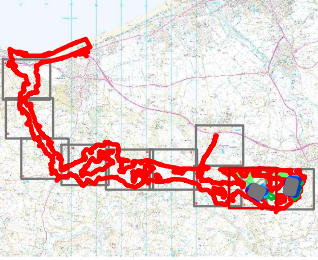
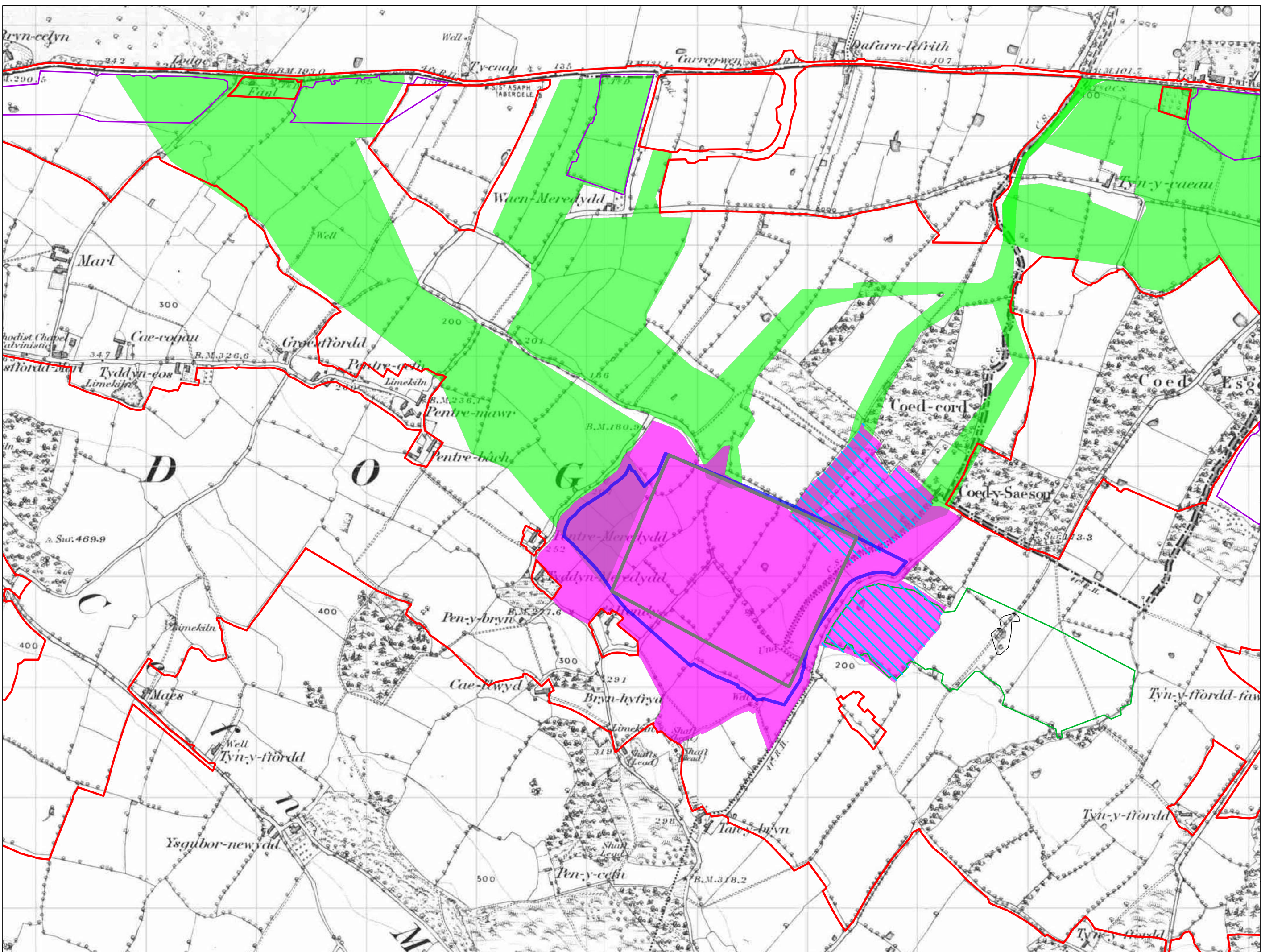
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FIGURE 5G
1871-75 ORDANCE SURVEY MAP

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- LEGEND**
- Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



Drawing Number:

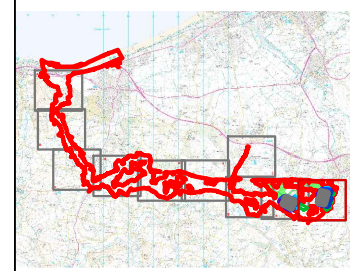
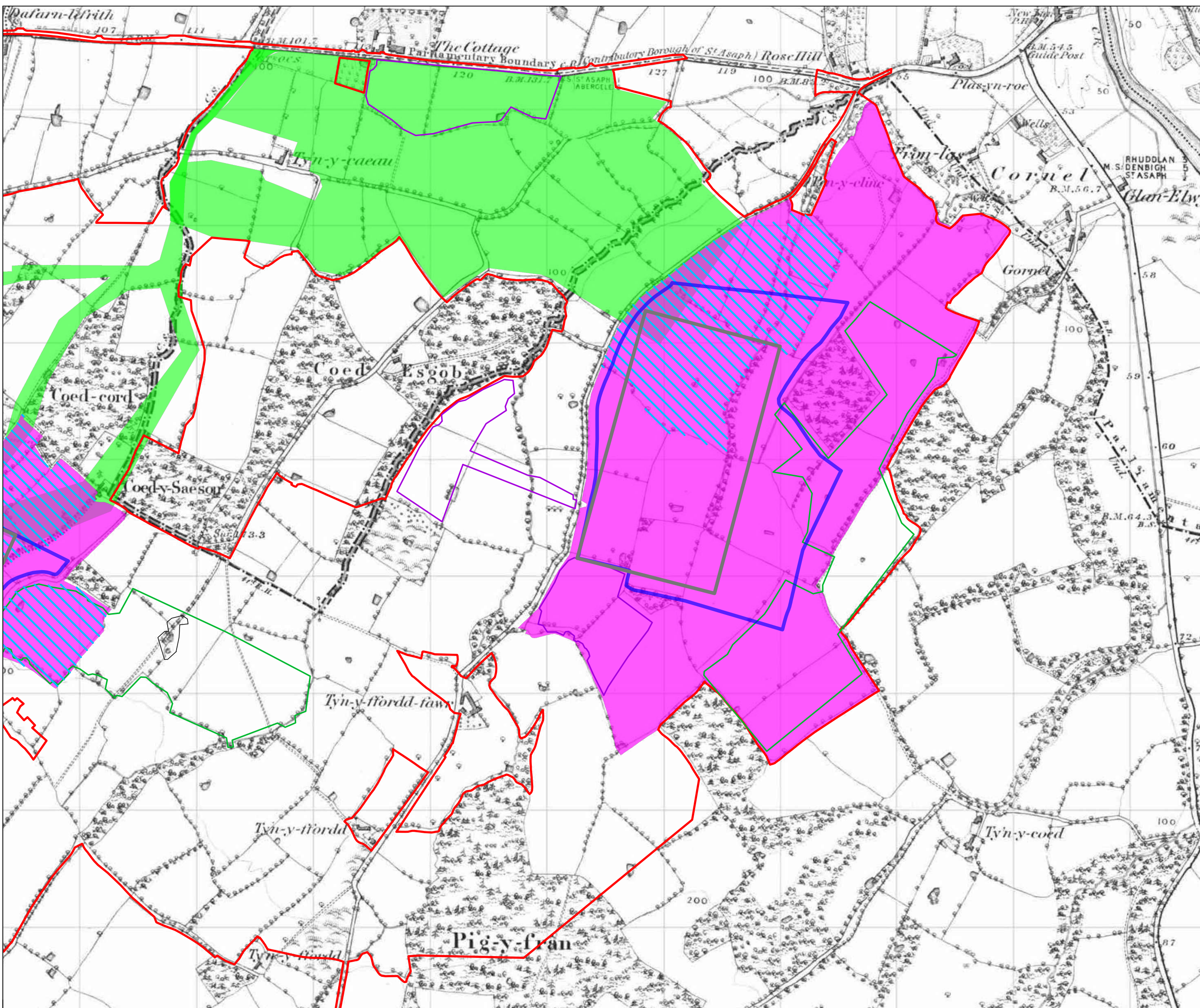
Project Name:
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Drawing Title:
FIGURE 5H
1871-75 ORDNANCE SURVEY MAP

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- LEGEND**
- Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



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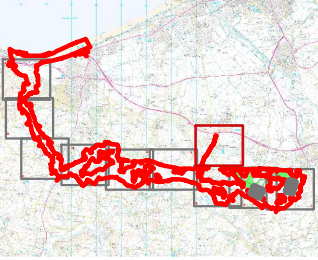
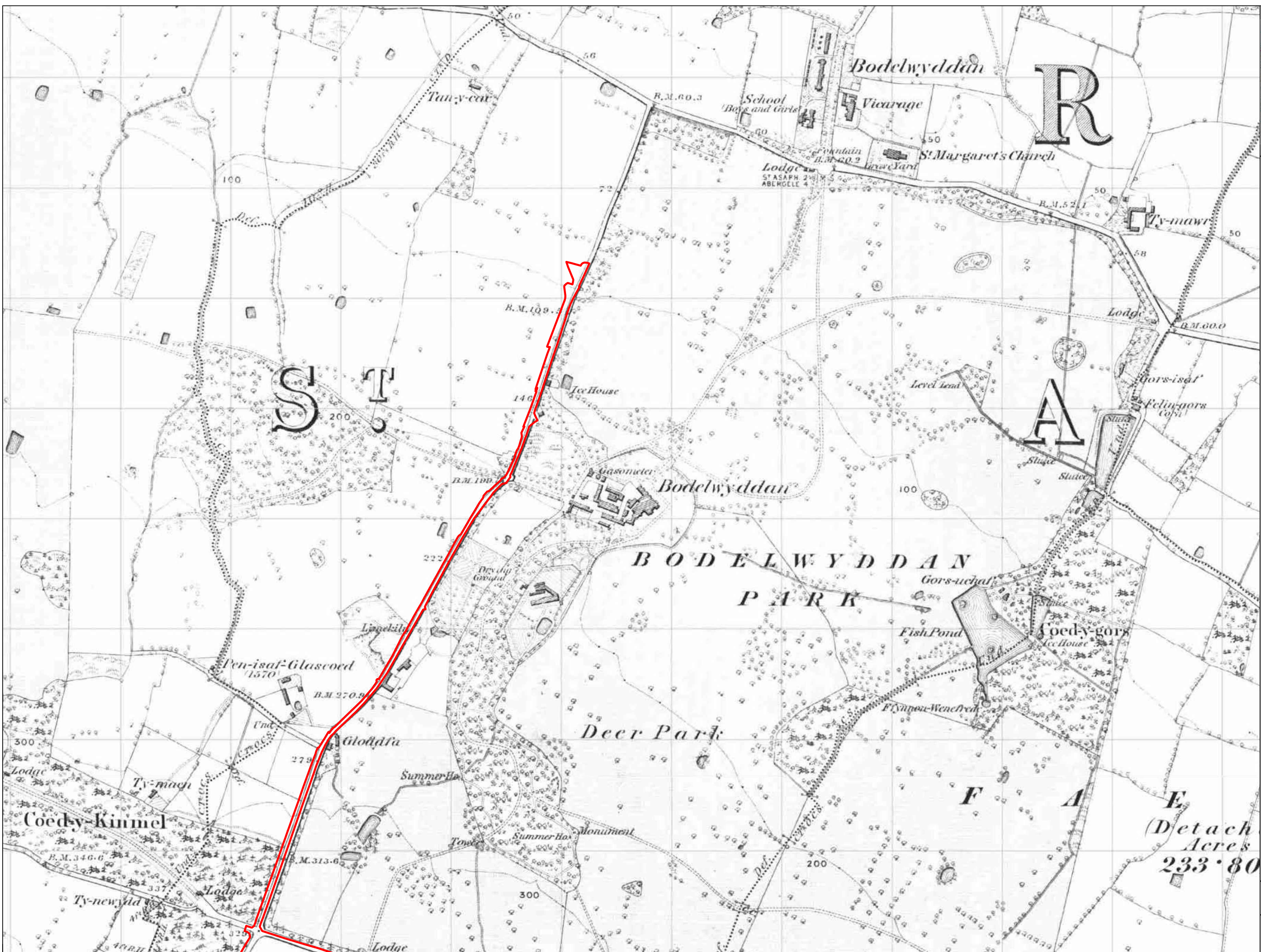
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Drawing Title:
FIGURE 51
1871-75 ORDNANCE SURVEY MAP

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- LEGEND**
- ▭ Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - ▭ Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - ▭ Onshore Substation Construction Search Area
BP-GBR-MONA-DAT-0079
 - ▭ Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - ▭ Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - ▭ Attenuation Basin Area of Search
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 - ▭ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079



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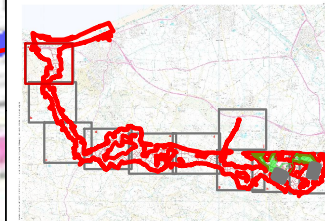
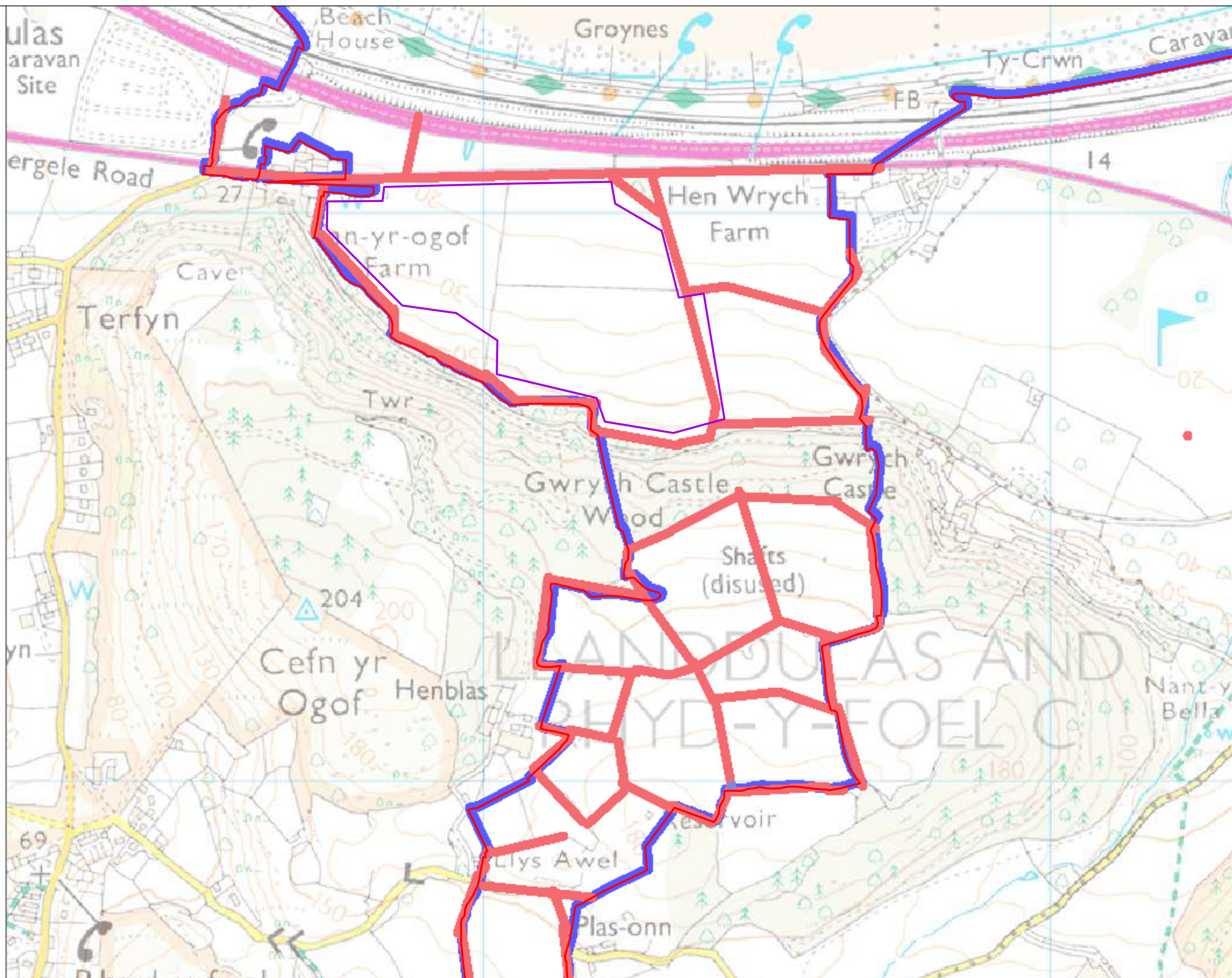
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FIGURE 5J
1871-75 ORDNANCE SURVEY MAP

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A.6 Figure 6a-j: Location of historic hedgerows



LEGEND

- ▭ Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
- ▭ Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Zone
BP-GBR-MONA-DAT-0079
- Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
- ▭ Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
- ▭ Historic Hedgerows



Drawing Number:

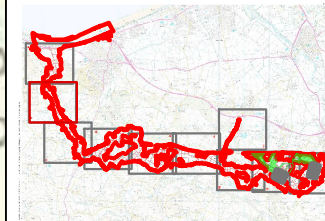
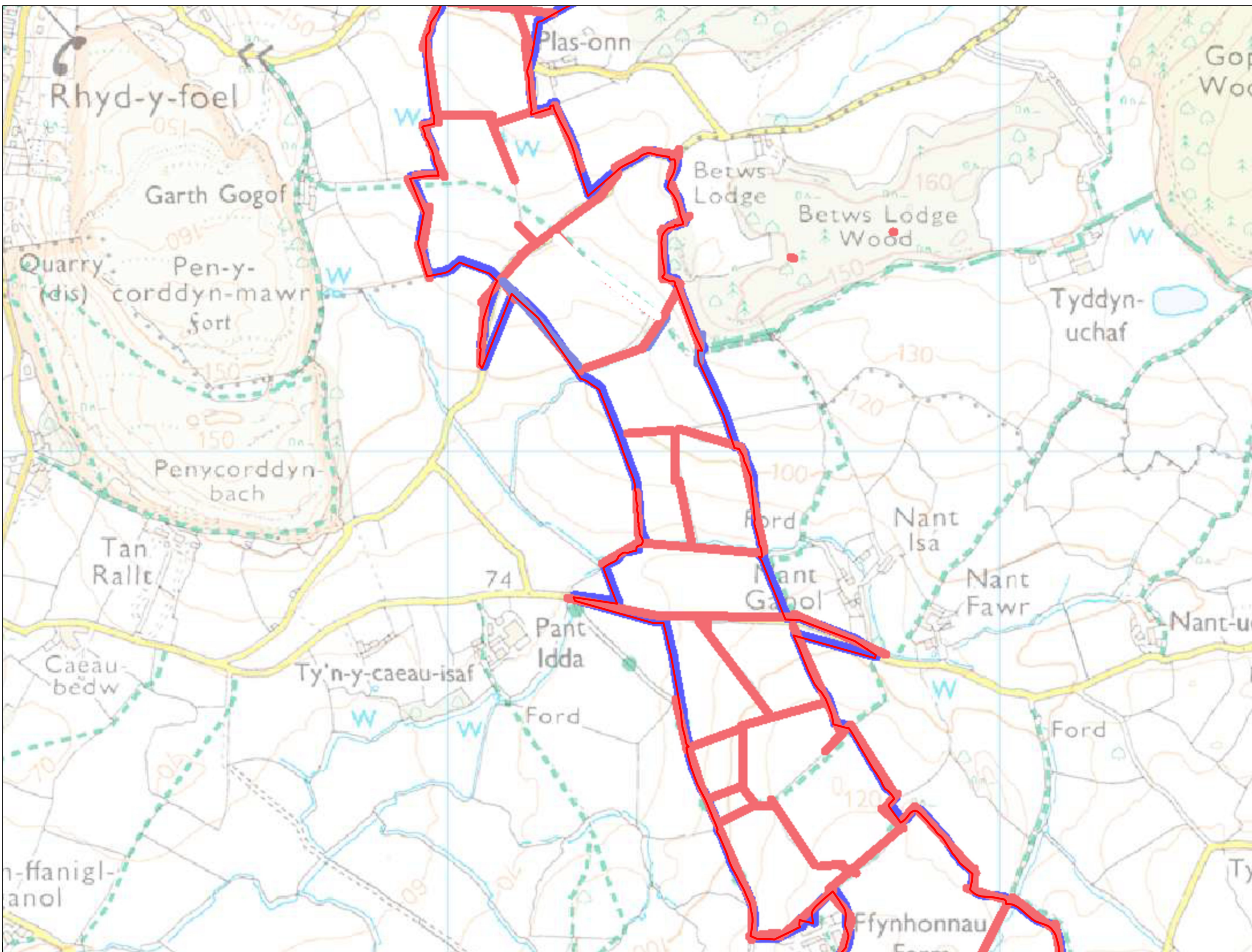
Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 6A
LOCATION OF HISTORIC HEDGEROWS

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CAD template\location of historic hedgerows.dwg

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LEGEND

- ▭ Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
- ▭ Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Zone
BP-GBR-MONA-DAT-0079
- Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
- ▨ Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
- Historic Hedgerows



Drawing Number:

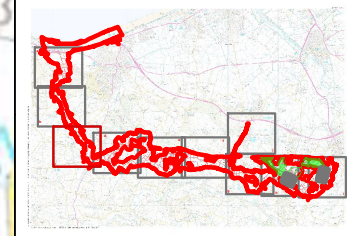
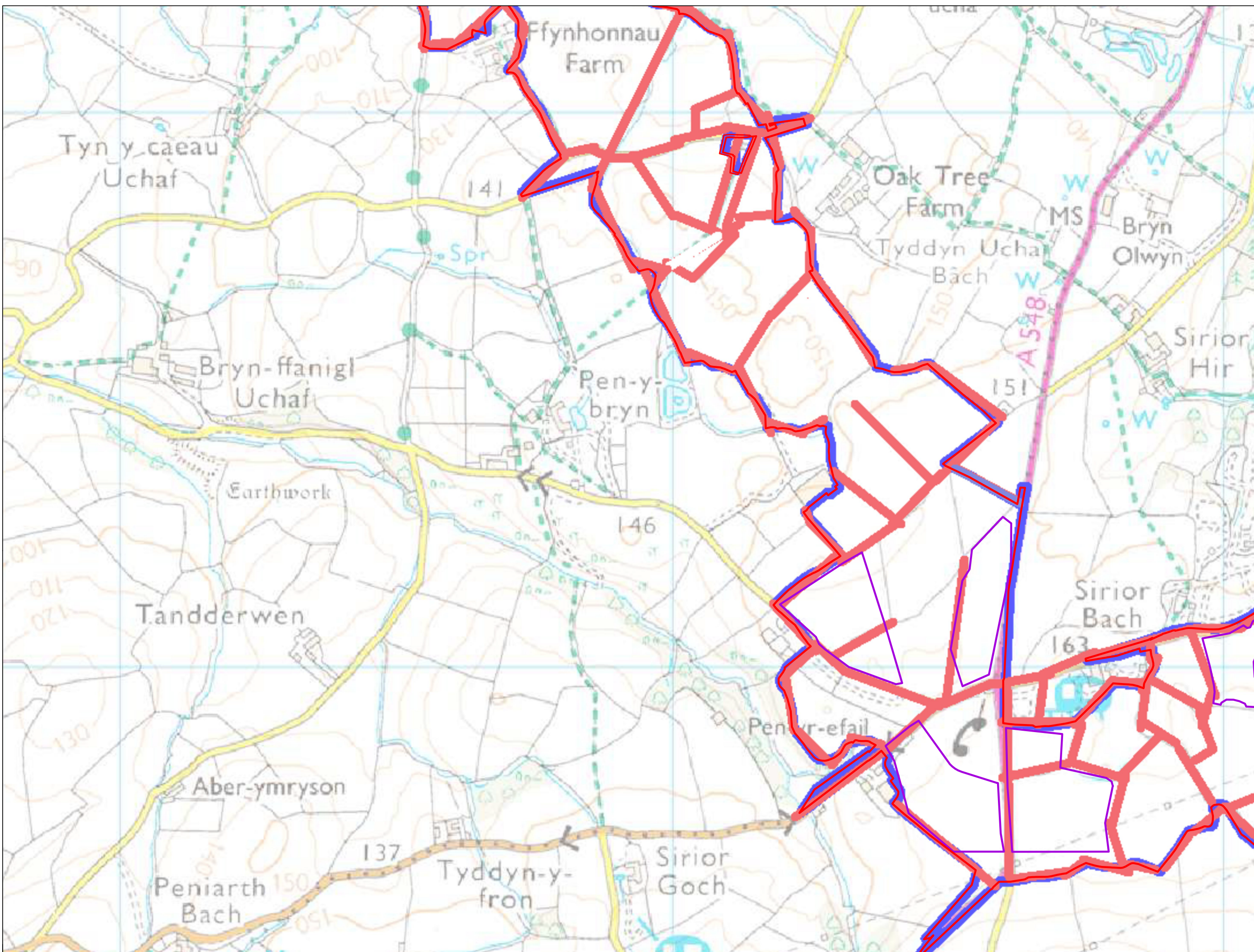
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MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 6B
LOCATION OF HISTORIC HEDGEROWS

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LEGEND

- ▭ Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
- ▭ Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Zone
BP-GBR-MONA-DAT-0079
- Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
- ▭ Attenuation Basin Area of Search
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- ▭ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
- ▭ Historic Hedgerows



Drawing Number:

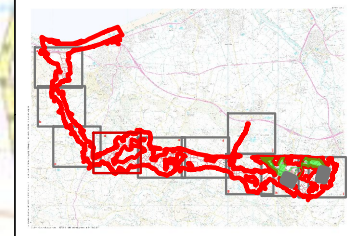
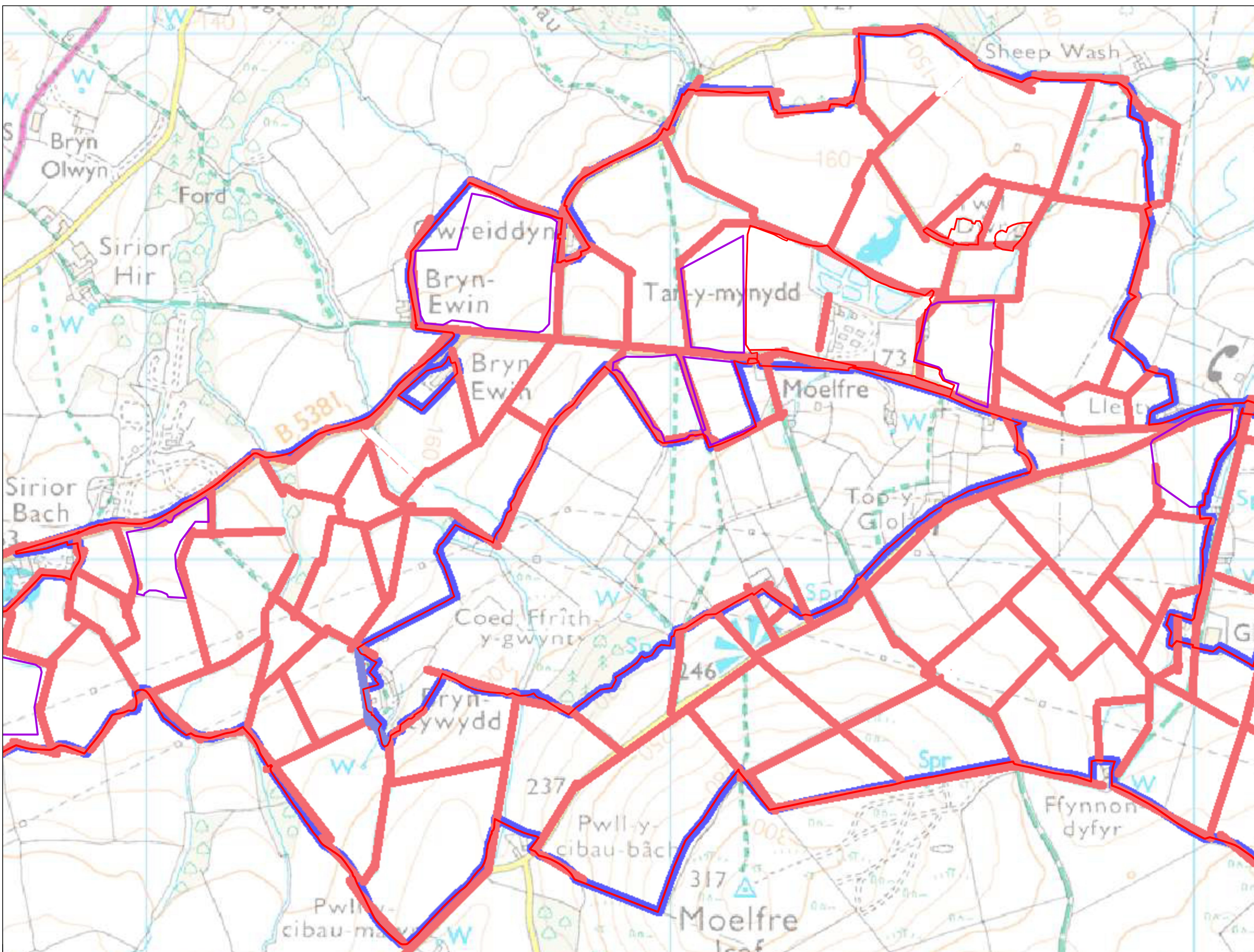
Project Name:
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Drawing Title:
FIGURE 6C
LOCATION OF HISTORIC HEDGEROWS

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- LEGEND**
- ▬ Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - ▬ Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - ▬ Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - ▬ Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - ▬ Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - ▨ Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - ▬ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
 - ▬ Historic Hedgerows



Drawing Number:

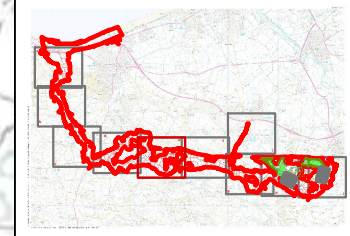
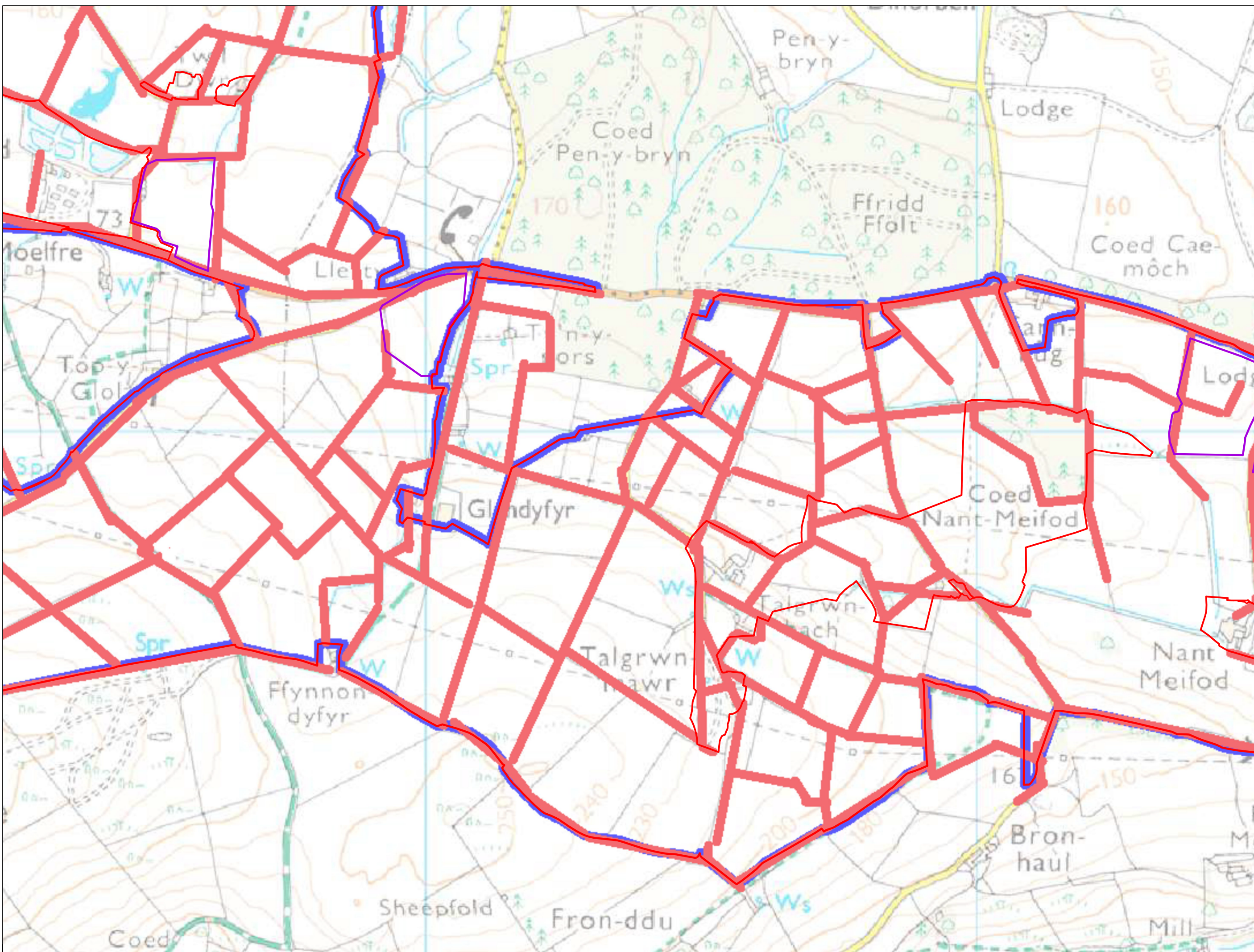
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MONA OFFSHORE WIND PROJECT

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FIGURE 6D
LOCATION OF HISTORIC HEDGEROWS

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- LEGEND**
- Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
 - Historic Hedgerows



Drawing Number:

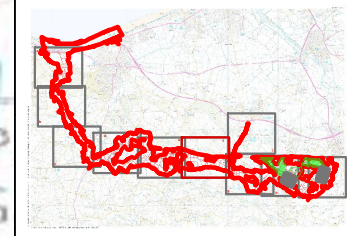
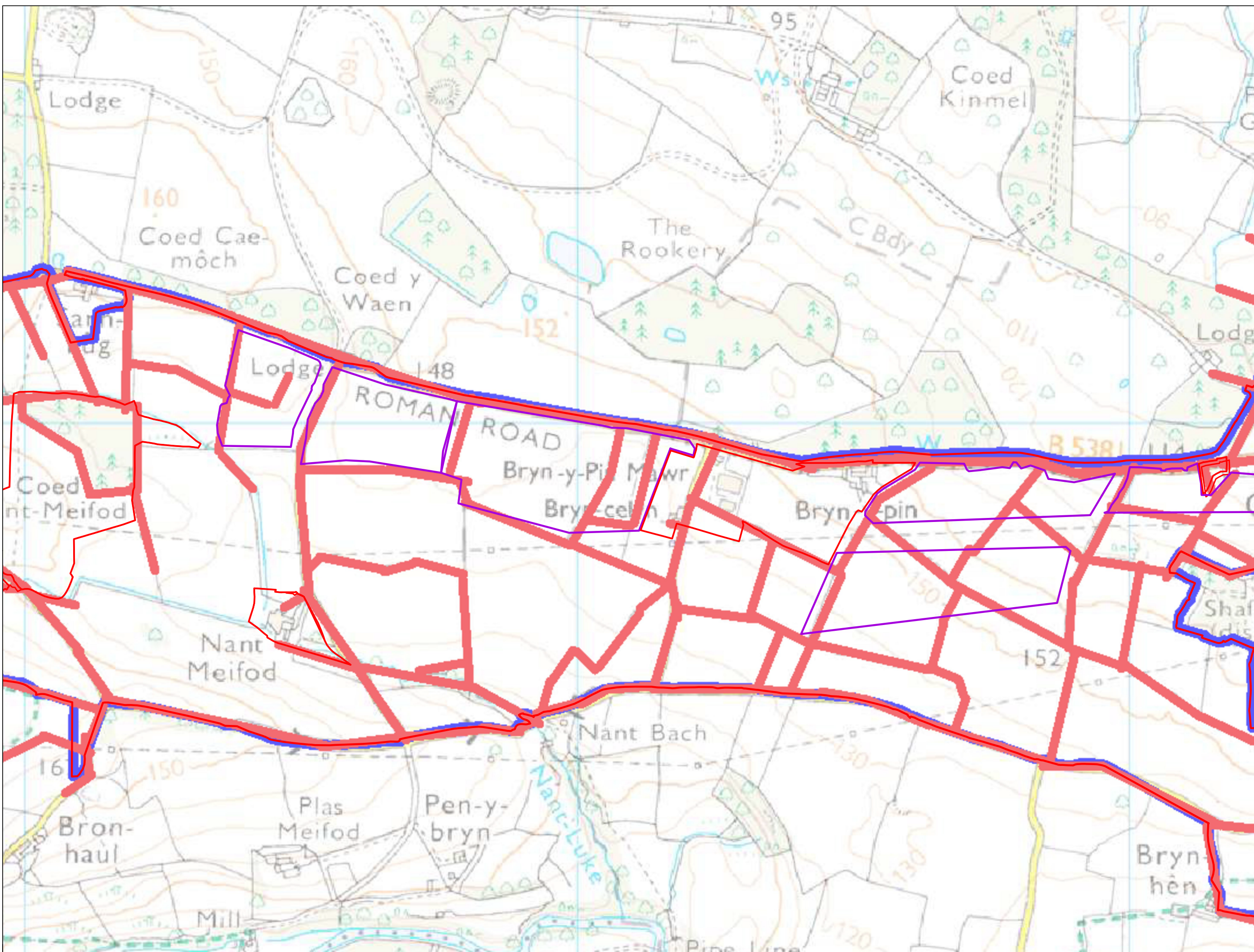
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Drawing Title:
FIGURE 6E
LOCATION OF HISTORIC HEDGEROWS

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- LEGEND**
- ▬ Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - ▬ Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - ▬ Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - ▬ Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - ▬ Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - ▬▬▬ Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - ▬ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
 - ▬ Historic Hedgerows



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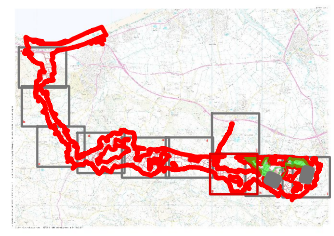
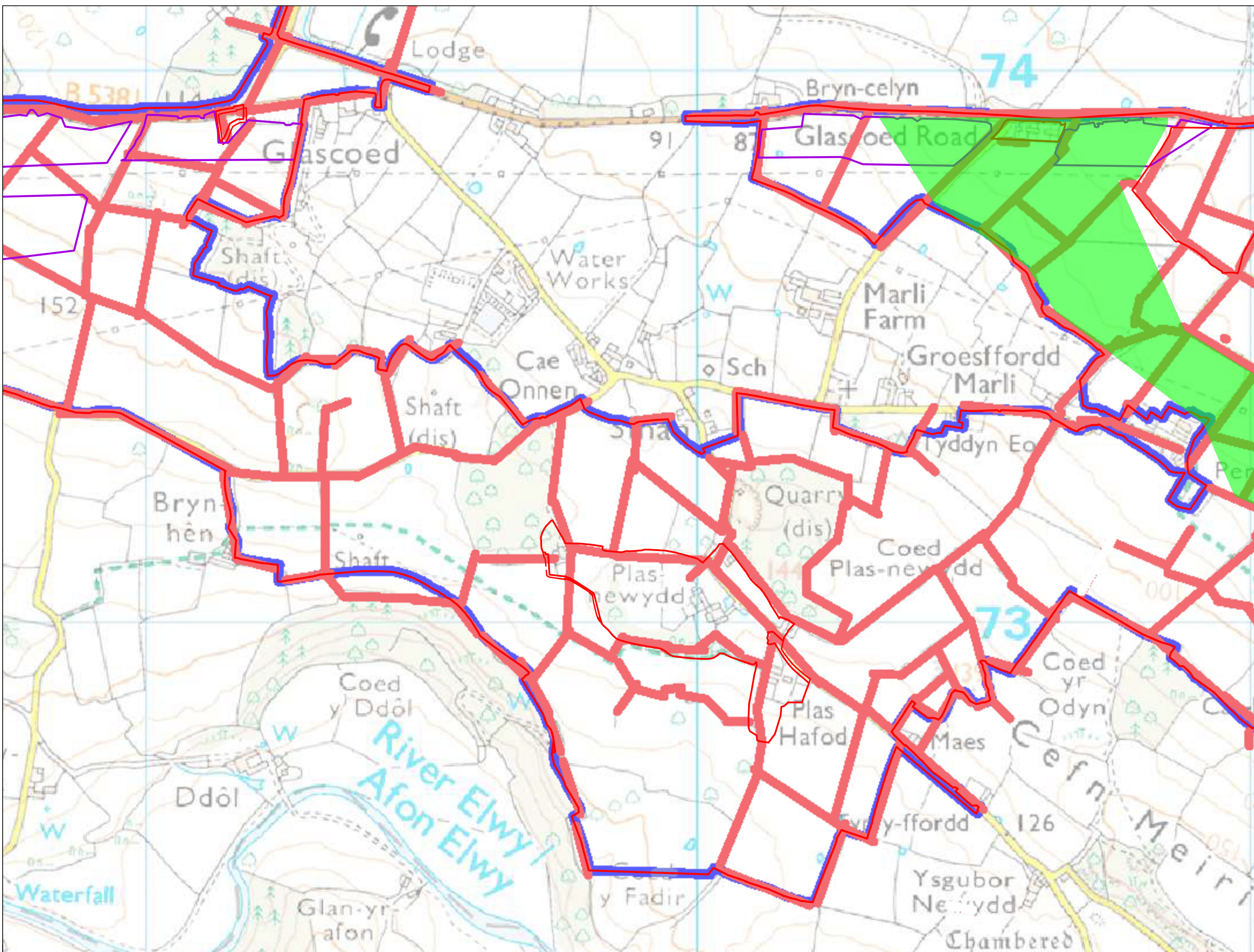
Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
FIGURE 6F
LOCATION OF HISTORIC HEDGEROWS

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LEGEND

- ▭ Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
- ▭ Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Zone
BP-GBR-MONA-DAT-0079
- Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
- ▭ Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
- ▭ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
- ▭ Historic Hedgerows



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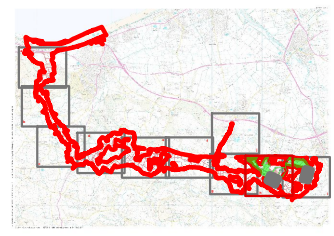
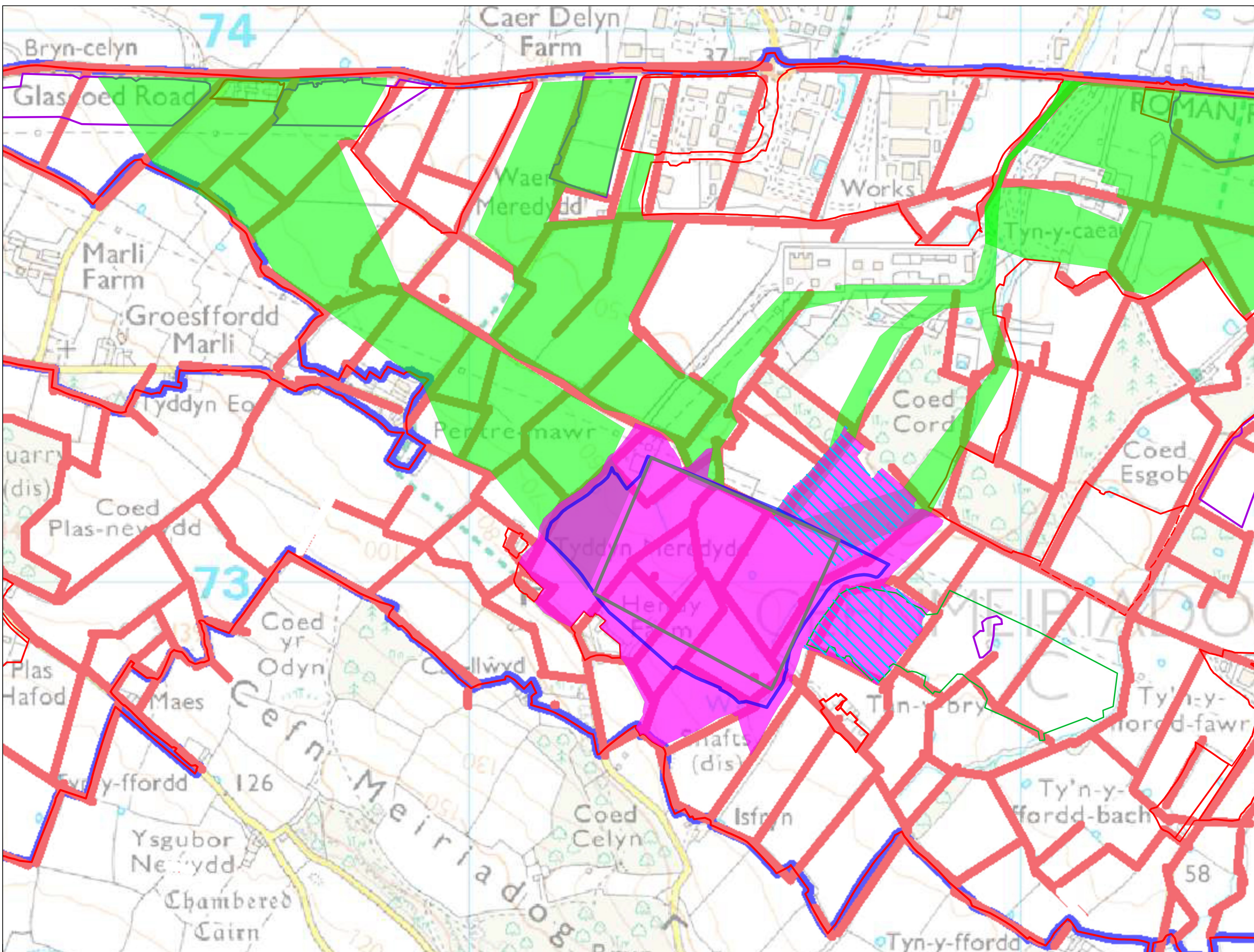
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Drawing Title:
FIGURE 6G
LOCATION OF HISTORIC HEDGEROWS

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LEGEND

- Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
- Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- Onshore Substation Construction Search Area
BP-GBR-MONA-DAT-0079
- Onshore Substation Zone
BP-GBR-MONA-DAT-0079
- Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
- Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
- Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
- Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
- Historic Hedgerows



Drawing Number:

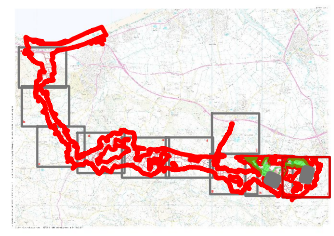
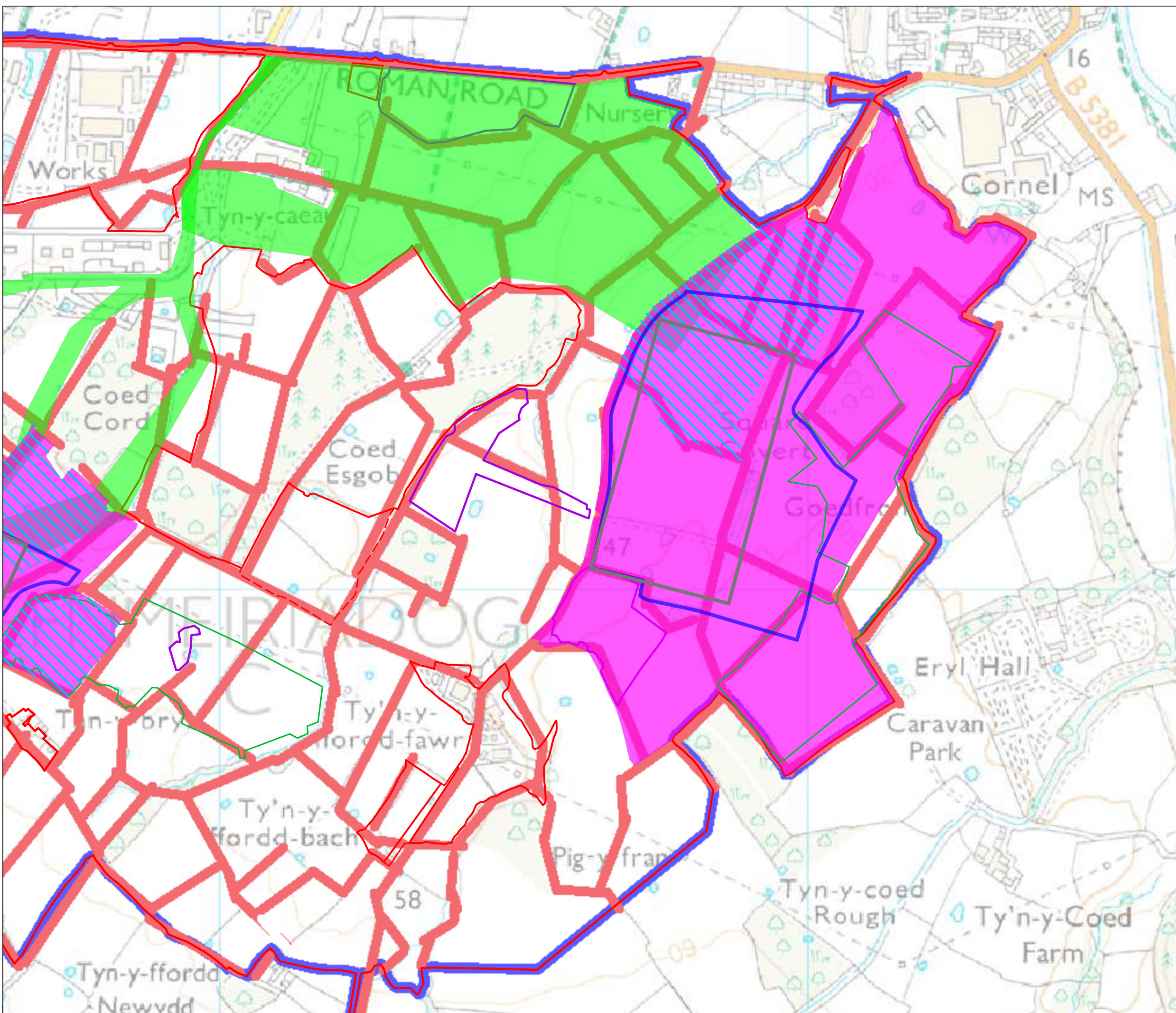
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Drawing Title:
FIGURE 6H
LOCATION OF HISTORIC HEDGEROWS

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LEGEND

- Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
- Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
- Onshore Substation Zone
BP-GBR-MONA-DAT-0079
- Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
- Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
- Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
- Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
- Historic Hedgerows



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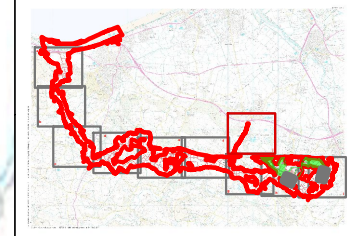
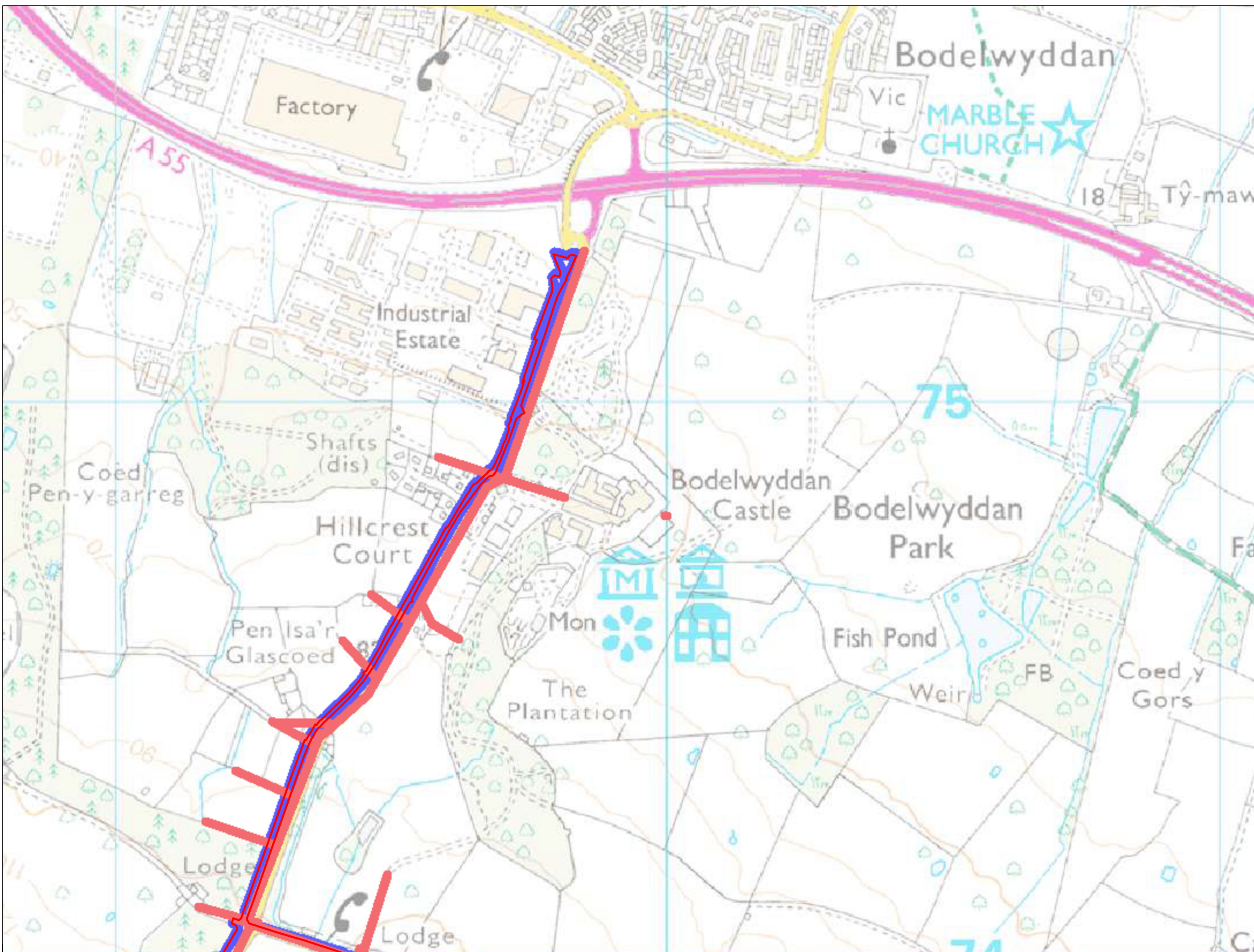
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Drawing Title:
FIGURE 61
LOCATION OF HISTORIC HEDGEROWS

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- LEGEND**
- ▭ Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - ▭ Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - ▭ Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - ▭ Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - ▭ Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
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BP-GBR-MONA-DAT-0079
 - ▭ Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - ▭ Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
 - ▬ Historic Hedgerows



Drawing Number:

Project Name:
MONA OFFSHORE WIND PROJECT

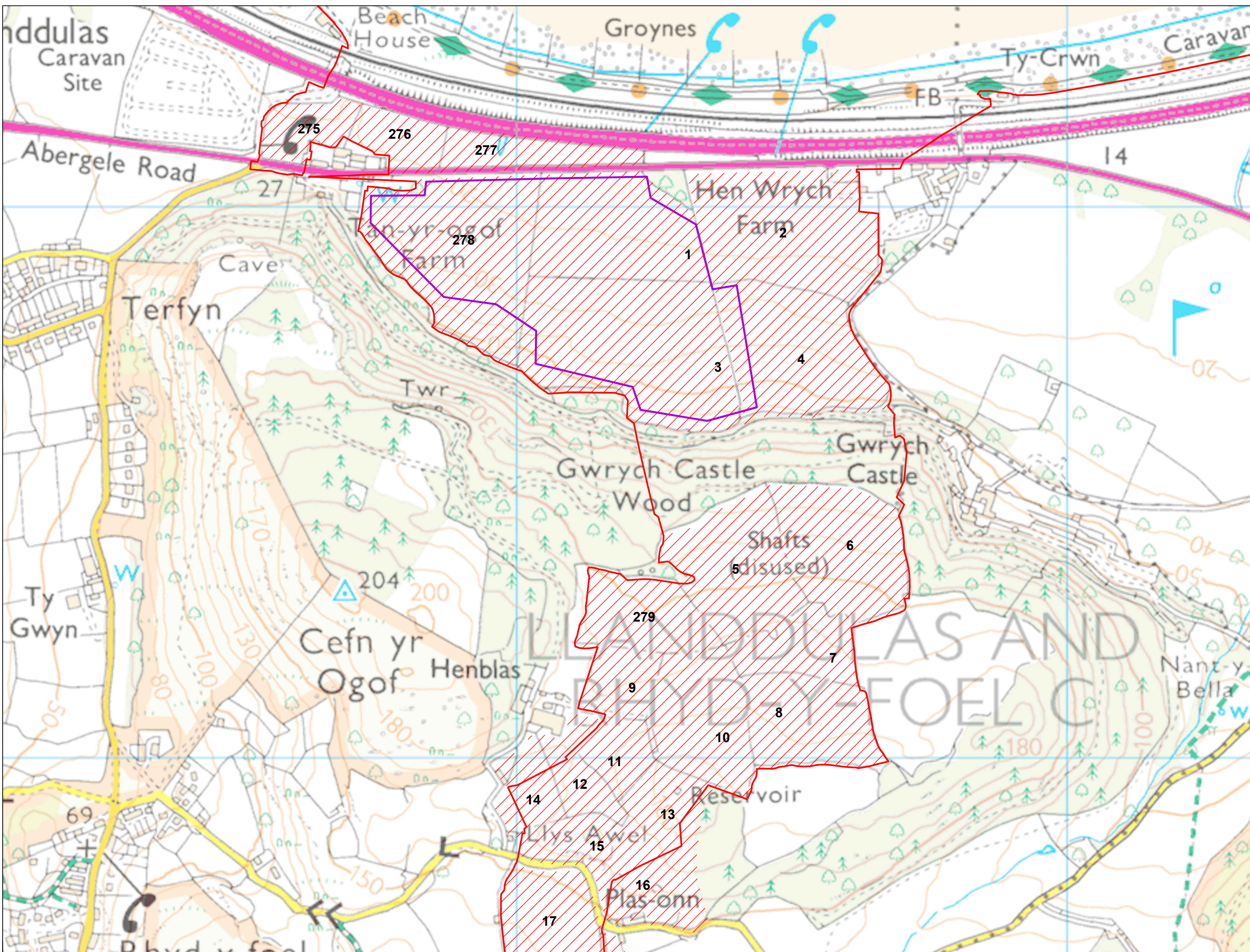
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FIGURE 6J
LOCATION OF HISTORIC HEDGEROWS

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A.7 Figure 7a-j: Geophysical survey plan



- LEGEND**
- Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
 - Area of Geophysical Survey



Drawing Number:

VER	DATE	DETAILS	BY	CHECK

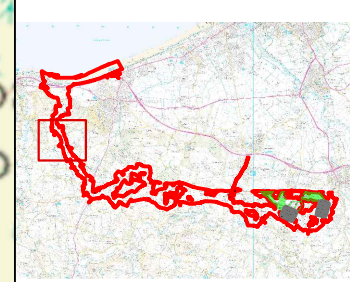
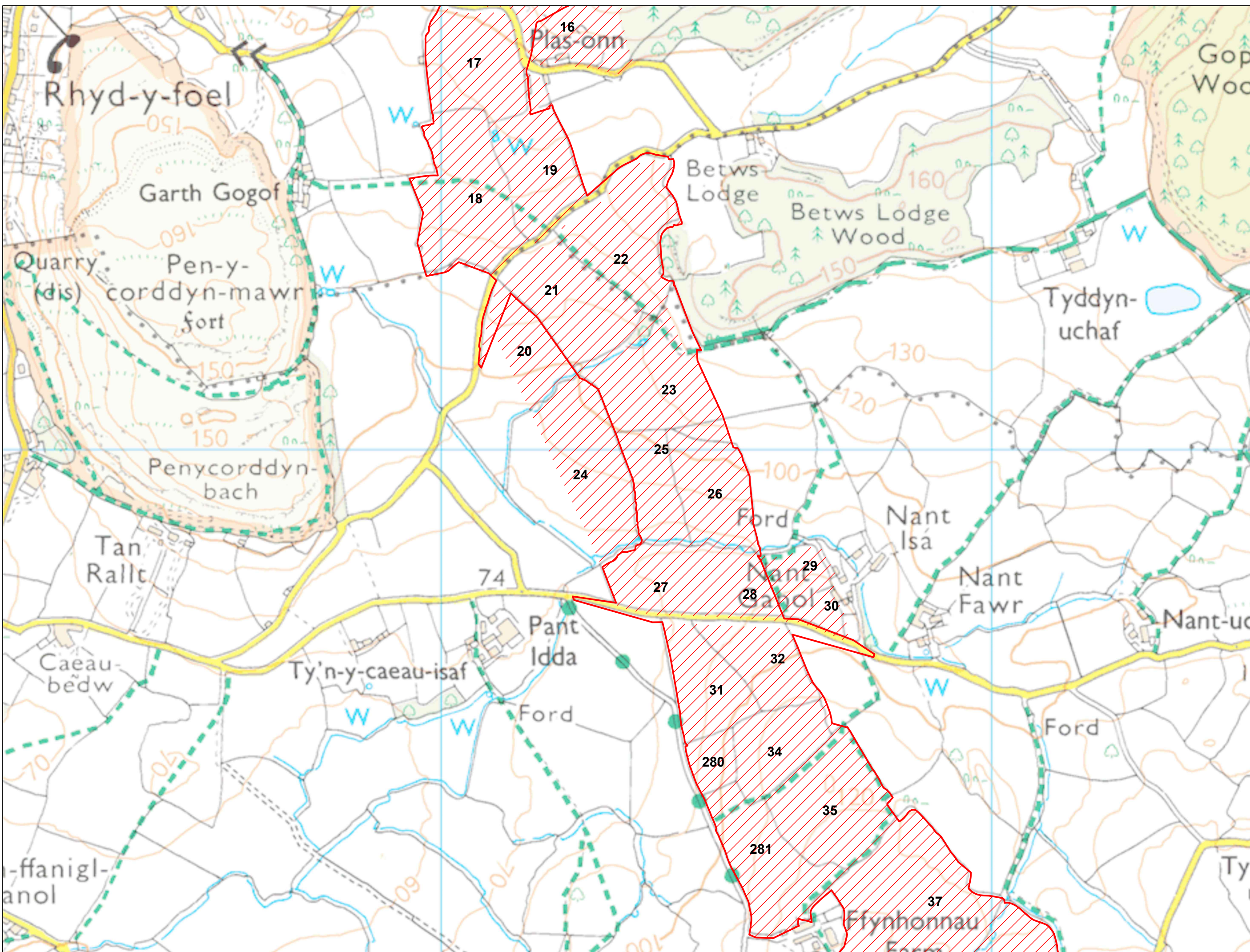
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- LEGEND**
- Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Construction Compound Search Area
BP-GBR-MONA-DAT-0079
 - Onshore Substation Zone
BP-GBR-MONA-DAT-0079
 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - Attenuation Basin Area of Search
BP-GBR-MONA-DAT-0079
 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
 - Area of Geophysical Survey



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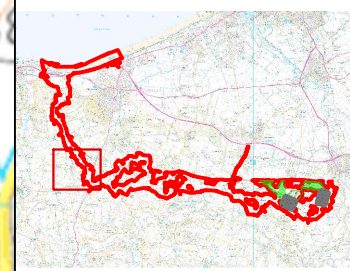
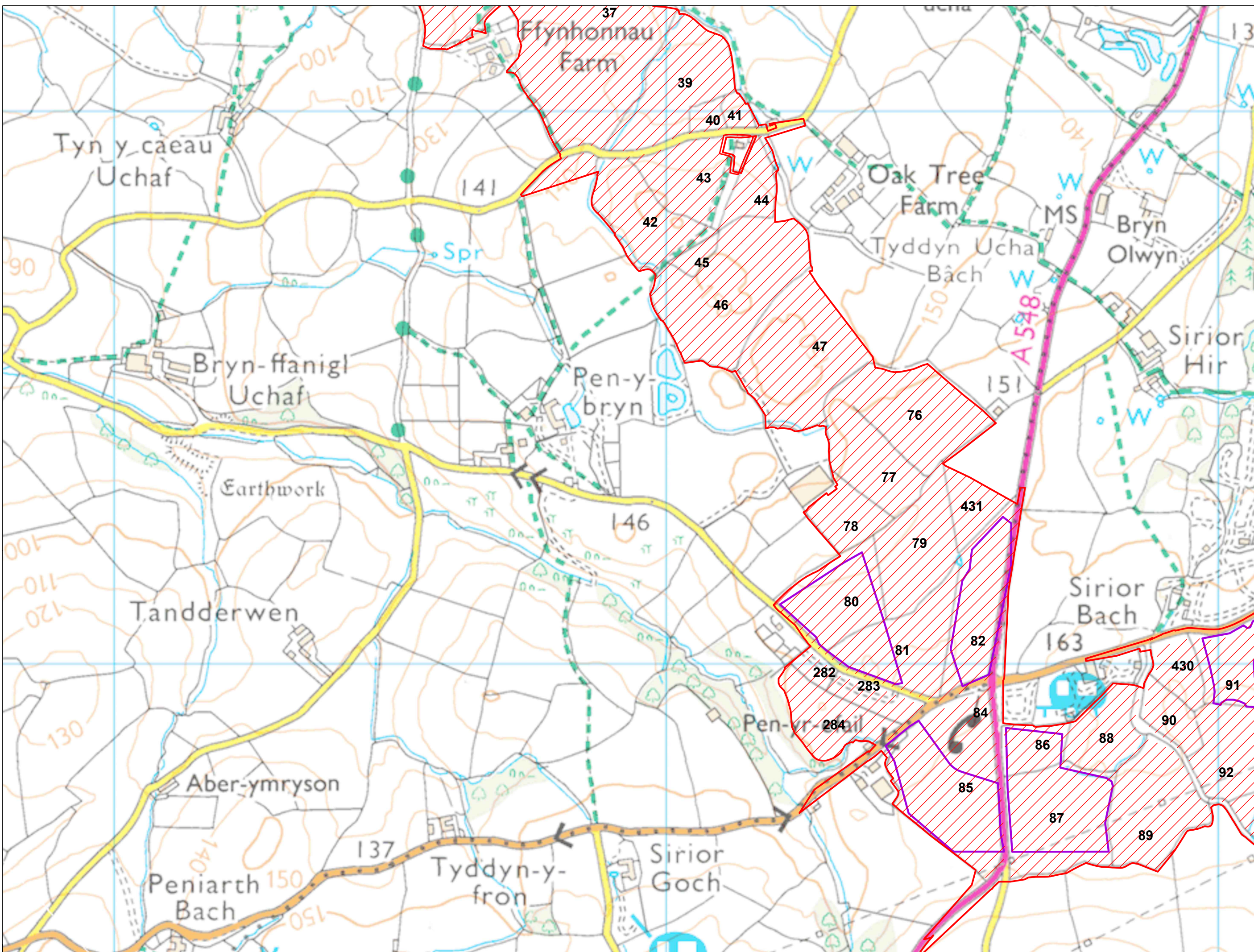
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- LEGEND**
- Mona Proposed Onshore Development Area
BP-GBR-MONA-DAT-0079
 - Temporary Construction Compound Search Area
BP-GBR-MONA-DAT-0079
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 - Onshore Substation Zone
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 - Onshore Substation Indicative Footprint
BP-GBR-MONA-DAT-0079
 - Onshore Substation Landscape Planting Search Area
BP-GBR-MONA-DAT-0079
 - Attenuation Basin Area of Search
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 - Onshore Substation Access Road Search Area
BP-GBR-MONA-DAT-0079
 - Area of Geophysical Survey



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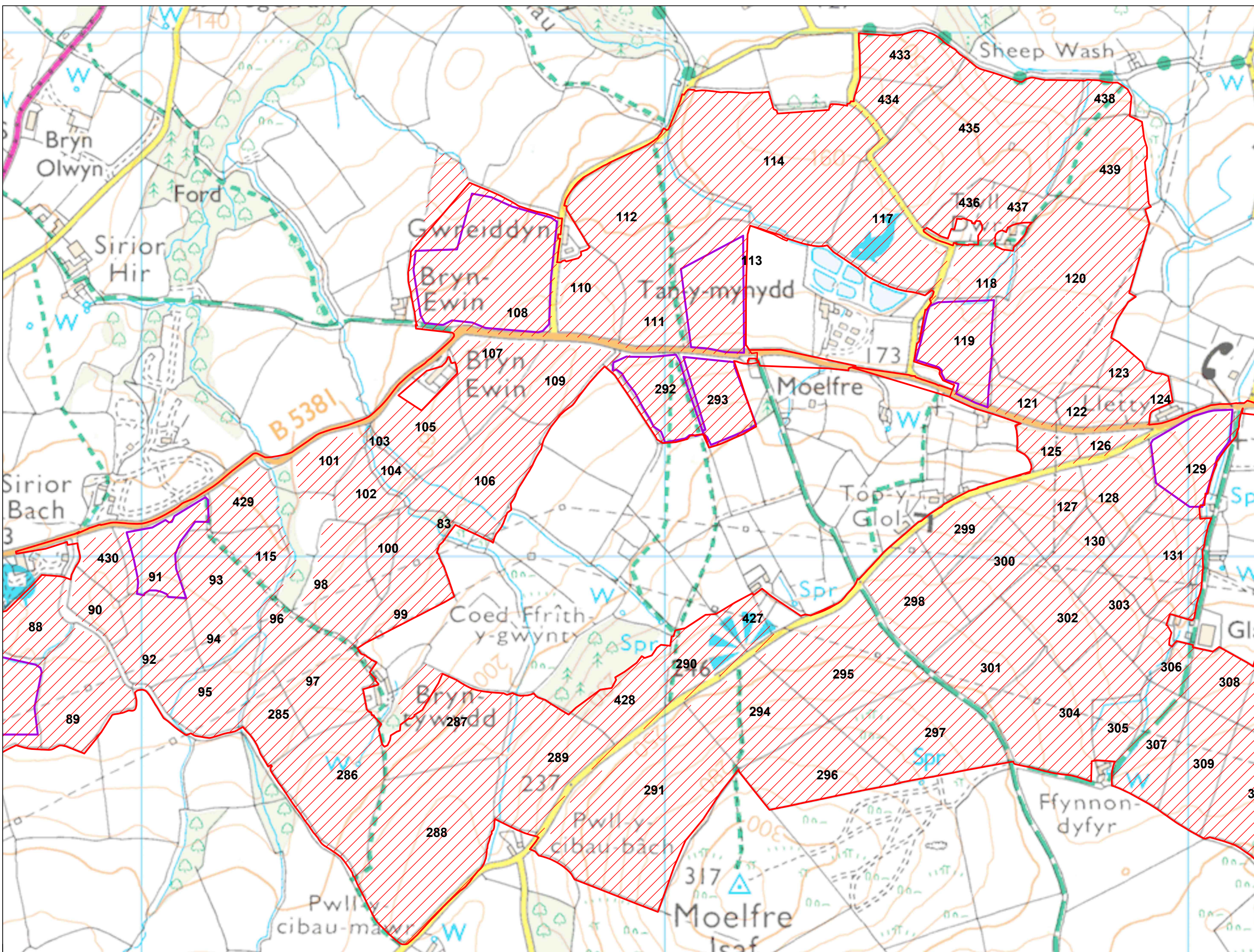
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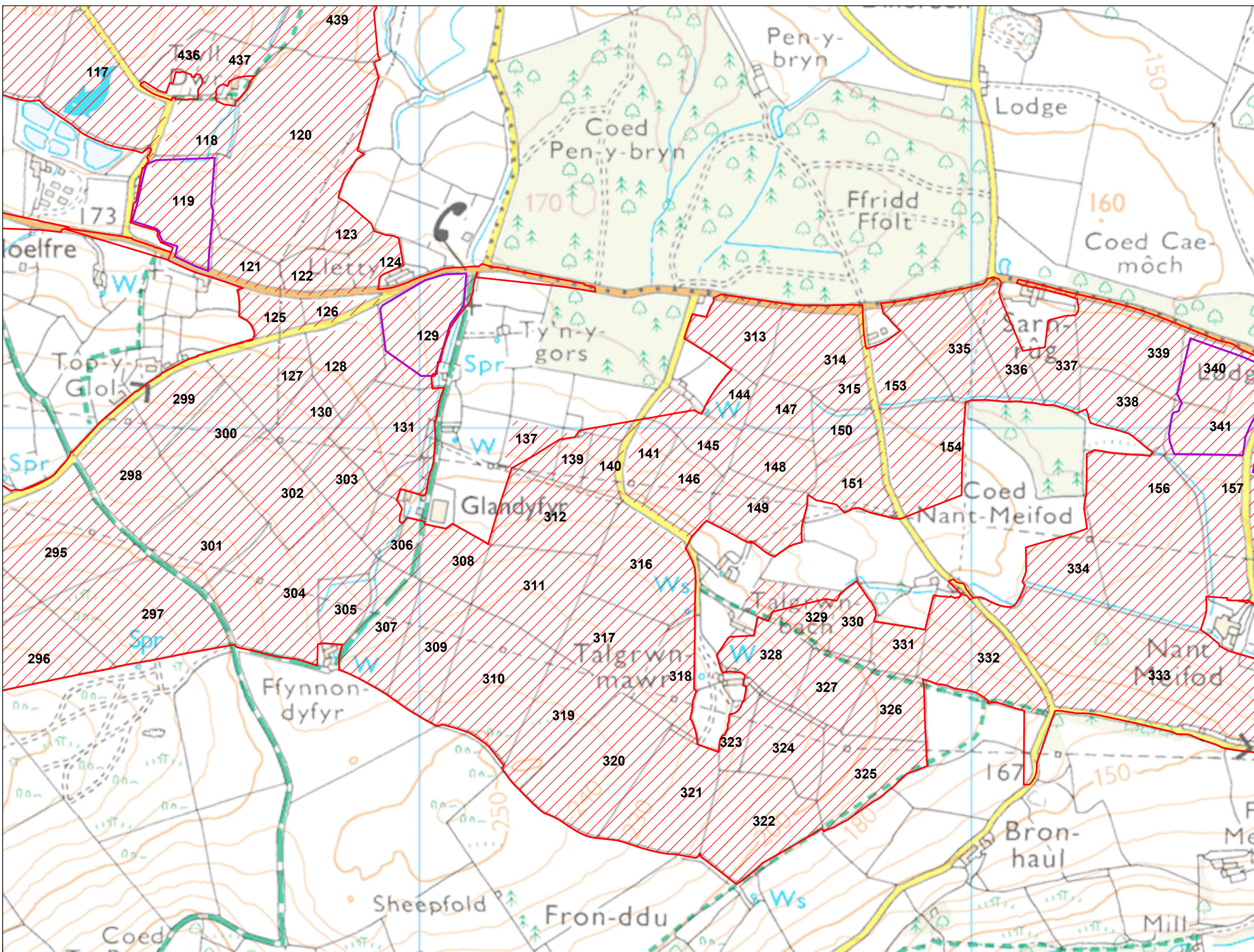
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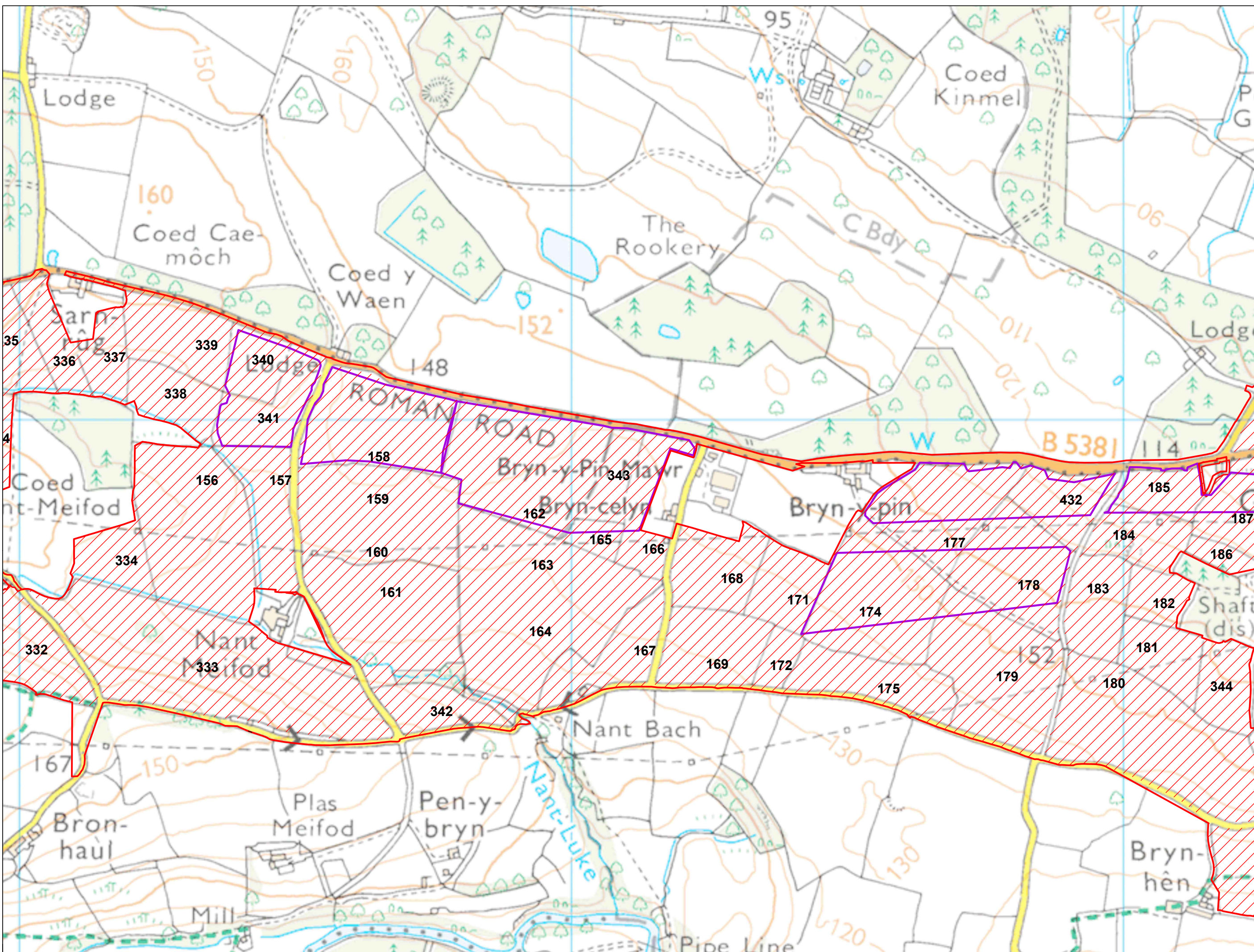
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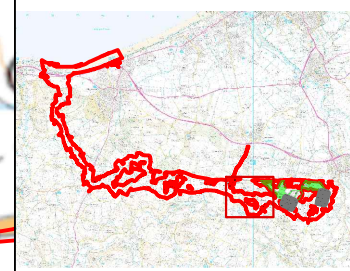
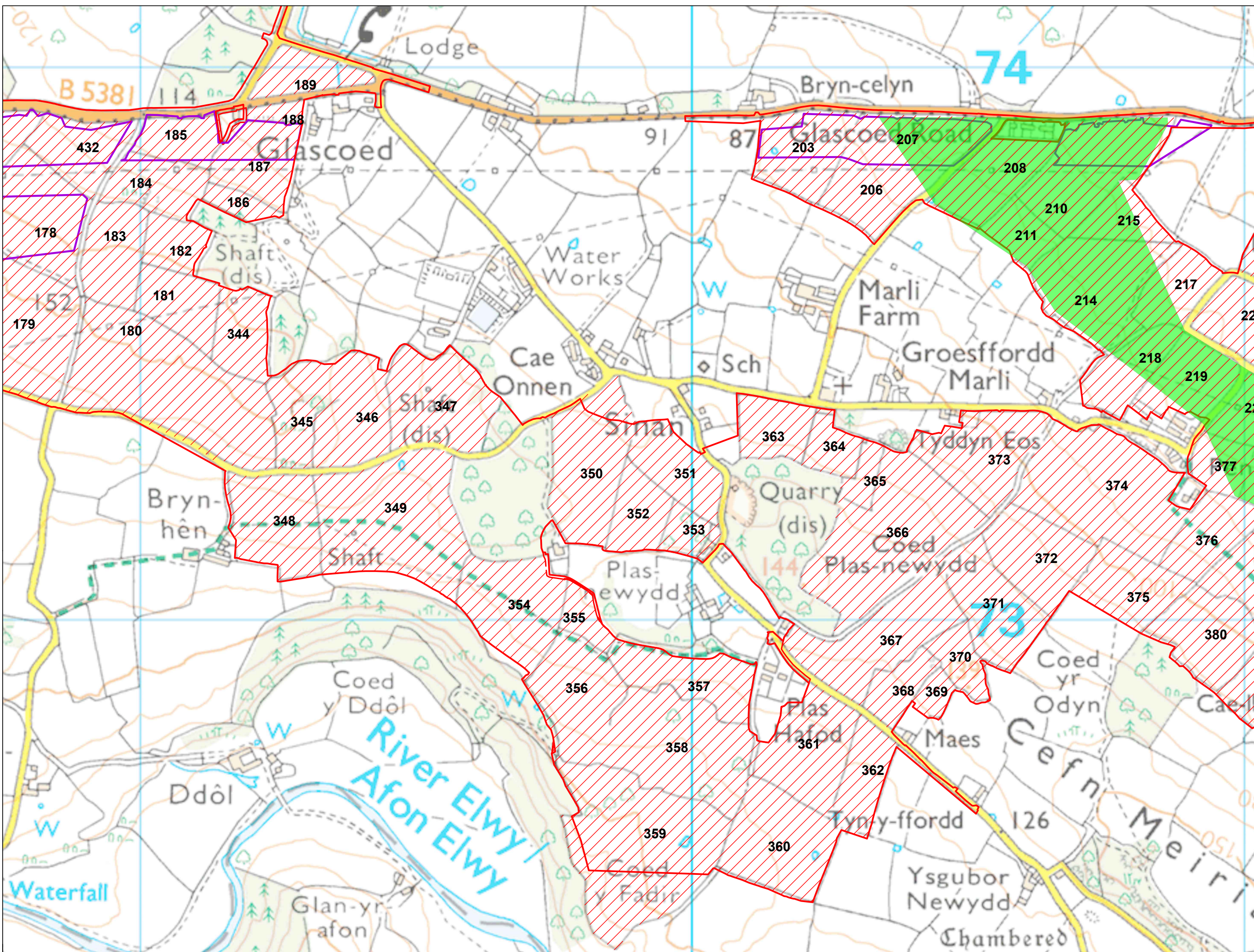
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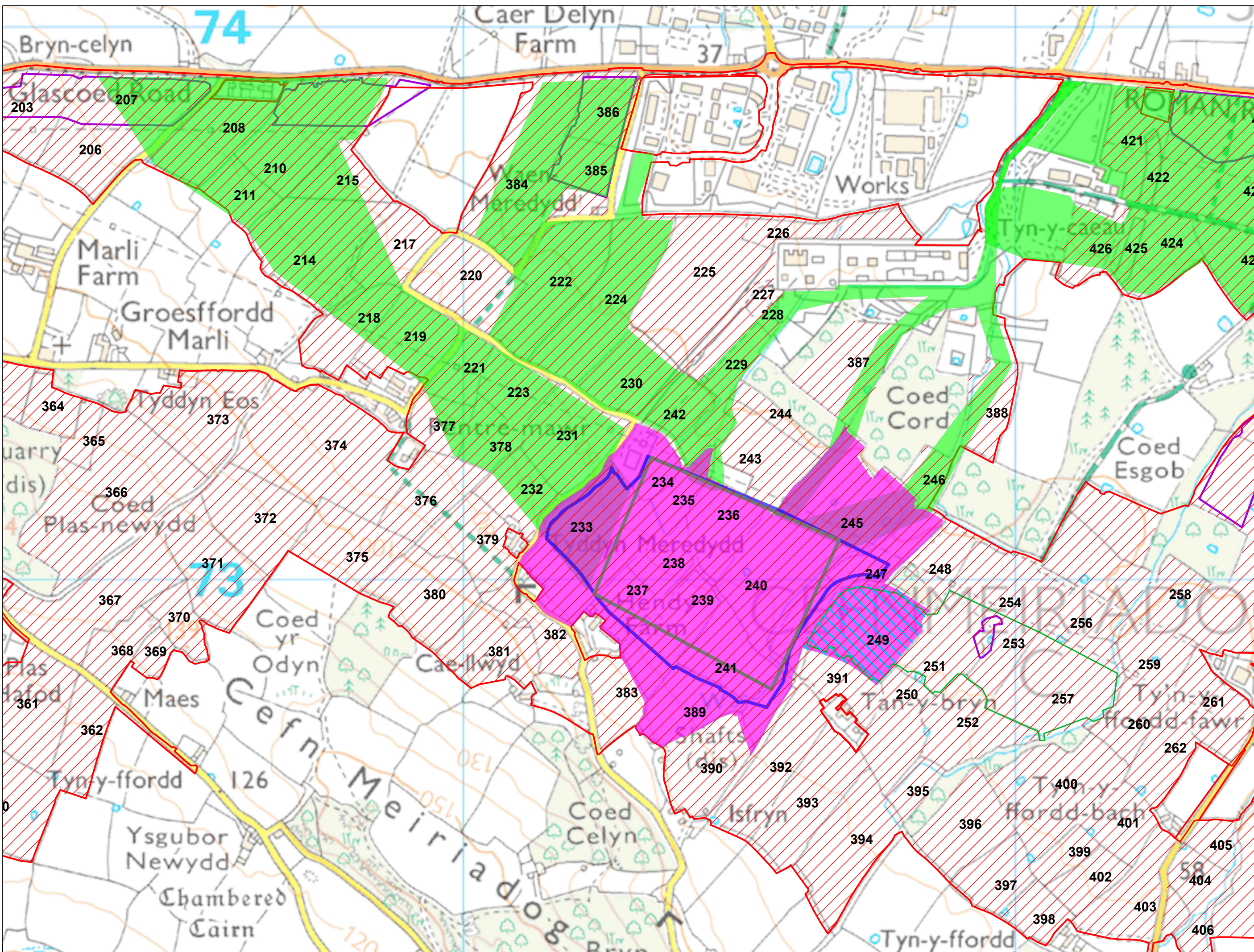
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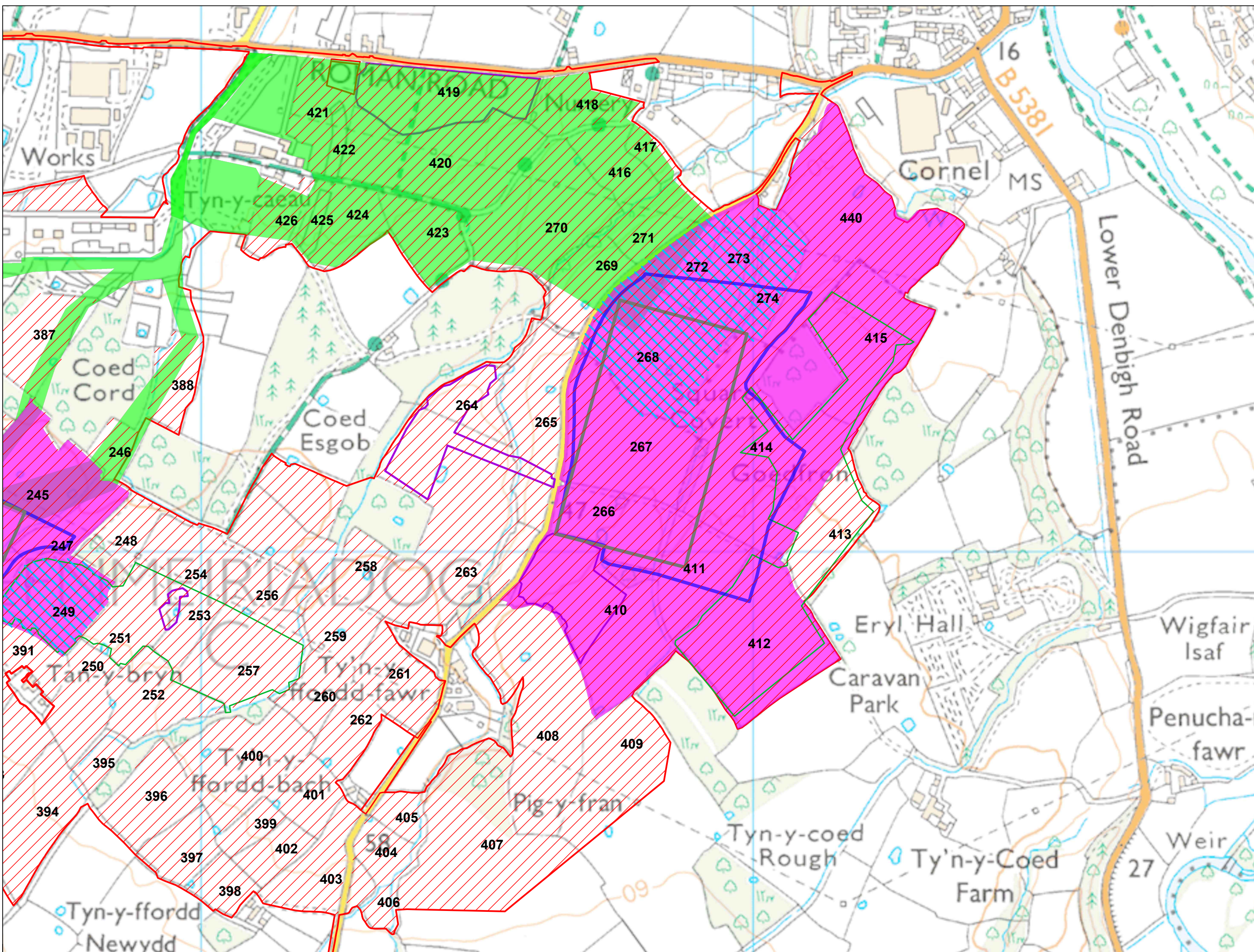
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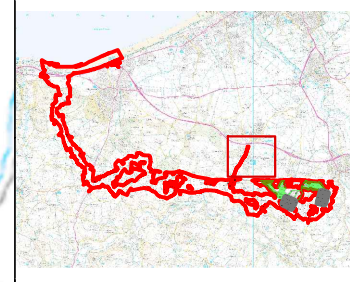
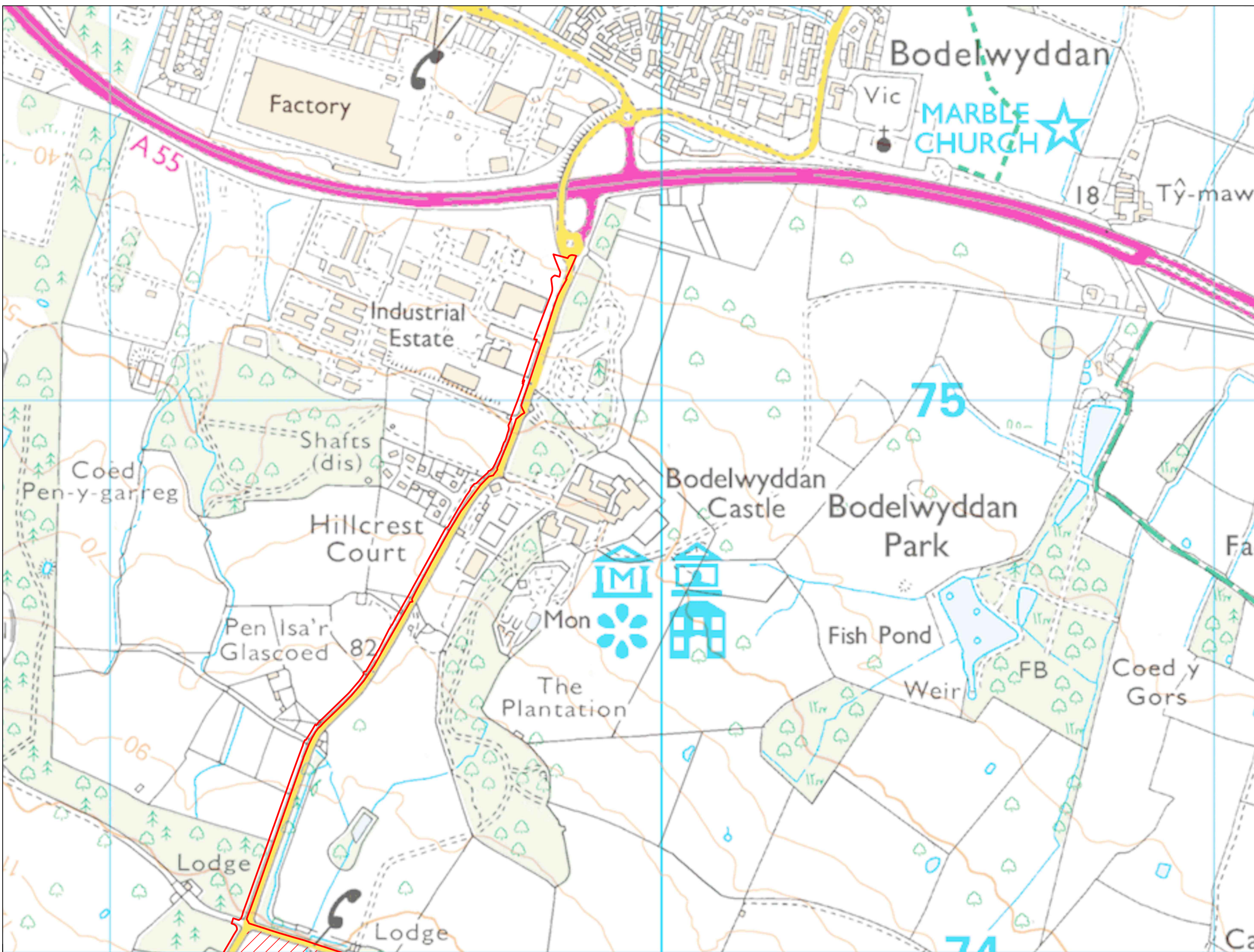
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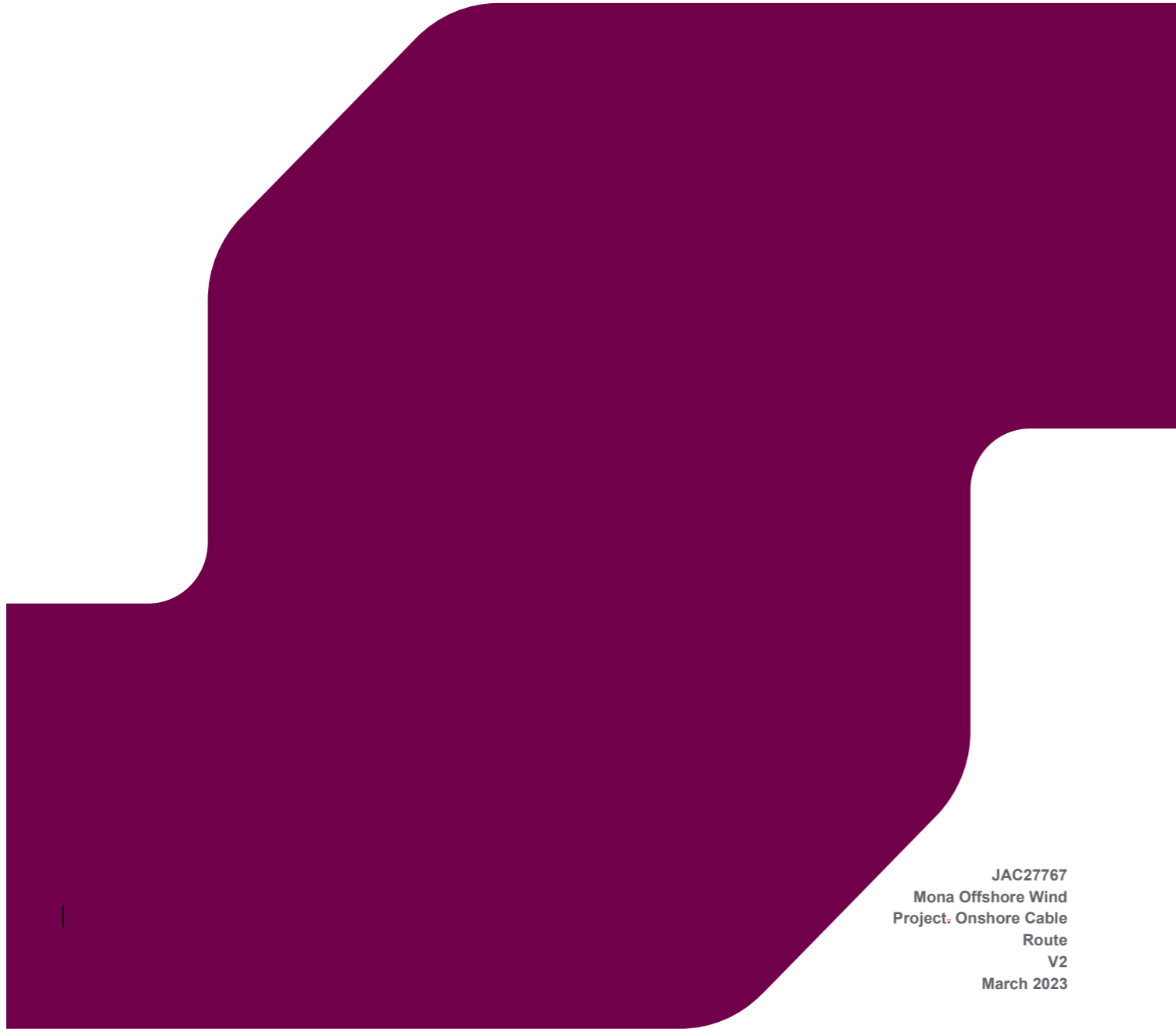
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Appendix B: Written Specification for the DBA

MONA OFFSHORE WIND PROJECT ONSHORE CABLE ROUTE

Specification for a Historic Environment Desk-Based Assessment



JAC27767
 Mona Offshore Wind
 Project. Onshore Cable
 Route
 V2
 March 2023

SPECIFICATION FOR A HISTORIC ENVIRONMENT DESK-BASED ASSESSMENT

Document status

Version	Purpose of document	Authored by	Reviewed by	Approved by	Review date
V1	Draft	Chris Clarke	Mick Rawlings	Mick Rawlings	15/09/22
V2	Final	Chris Clarke	Mick Rawlings	Mick Rawlings	17/03/23

Approval for issue

Mick Rawlings 17 March 2023

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Prepared by:

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Figure 1 Proposed Cable Route

1 INTRODUCTION

- 1.1 This Specification has been prepared by Chris Clarke, Senior Associate Director at RPS Group, on behalf of bp/EnBW. It details the methodology and sources that will be used in order to produce a Historic Environment Desk-based Assessment (DBA) in relation to the onshore and intertidal elements of the proposed Mona Offshore Wind Project which cover an area between the coast at Abergele, and the immediate environs of St. Asaph (see Figure 1). The route of the onshore cable corridor shown in Figure 1 is most likely that which will be taken forward to the Preliminary Environmental Information Report (PIER) review process, although there is potential for the route of the onshore cable corridor to be modified prior to this event.
- 1.2 The onshore elements of the proposed scheme are located in Conwy and Denbighshire (North Wales) and comprise:
- a single possibly landfall sites near Abergele;
 - a potential substation locations to the west of St Asaph;
 - an onshore cable route, approximately 12 km in length, that links the landfall site to the potential substation locations; and
 - a shorter cable route that links the scheme substation to the National Grid Bodelwyddan substation.
- 1.3 It is intended that the DBA will initially be used to support the Preliminary Environmental Information Report (PIER) consultation process. It will subsequently be updated to become an appendix to a Historic Environment chapter within an Environmental Statement (ES) which will accompany an application for a Development Consent Order (DCO).
- 1.4 The draft DBA will be submitted to the local planning authority’s archaeological advisor in order to inform the need for further field investigations, the results of which may be required to be made available prior to the determination of the DCO application.
- 1.5 This document details the methods and staffing for the production of the DBA and has been written in accordance with the relevant Standard and Guidance documents published by the Chartered Institute for Archaeologists (CIfA).

The Study Site

- 1.6 The extent of the study area will be as that shown in Figure 1.
- 1.7 The underlying basal geology across the majority of the study area varies. In the western and central part of the study area this is primarily recorded as Clwyd Limestone Group and Ffernant Mudstone Formation, while Warwickshire Group is more dominant in the eastern study area. In terms of superficial deposits, tidal clays, sands and silts of Holocene date are present near the coastline in the west, while intermittent superficial till is present elsewhere within the study area.

2 AIMS AND METHODS

- 2.1 The DBA will:
- Characterise the historic environment and the archaeological potential within the study area;
 - Identify any known historic assets that may be physically affected during the construction and use of the proposed development; and
 - Identify any designated historic assets whose significance may be affected by a change in their setting resulting from the construction and use of the proposed development.
- 2.2 A separate report for the PEIR will identify the relevant historic environment legislation, planning policy and guidance.
- 2.3 The DBA will examine the historic landscape character within the study site, in addition to undertaking an assessment of hedgerows which would be considered 'important' under the archaeological and historical criteria defined in the Hedgerow Regulations 1997.
- 2.4 Sources to be consulted as part of the DBA include:
- Databases of designated historic assets held by Cadw;
 - Records held by the National Monuments Record for Wales (NMRW) and the Royal Commission on the Ancient and Historical Monuments of Wales (RCAHMW);
 - The Regional Historic Environment Record (HER) maintained by Clwyd-Powys Archaeological Trust (CPAT);
 - Records and maps held by North East Wales Archives (where relevant records additional to those held by CPAT are identified);
 - Historic Ordnance Survey mapping;
 - British Geological Survey;
 - National Library of Wales
 - National Resources Wales (NRW) Lidar data
 - Tithe Online <https://places.library.wales/>
 - Welsh Government Air Photos Online <http://aerialphotos.wales.gov.uk/>
 - Denbighshire County Archives; and
 - Other readily available relevant published sources
- 2.5 The DBA assessment will be augmented through a walkover survey undertaken by an experienced researcher. This survey will aim to confirm the location and condition of any known historic assets within or directly adjacent to the study site, and to identify any previously unrecorded features of potential archaeological interest. Designated historic assets whose settings could potentially be affected by the proposed development will be visited and their current settings will be recorded. Where such assets are not accessible, adjacent public land will be visited.
- 2.6 The results of the DBA will be presented in a stand-alone report that will contain the results of the assessment. It will identify historic assets within the defined study area, and will be illustrated with plans showing the location of historic assets, historic mapping and other relevant information.

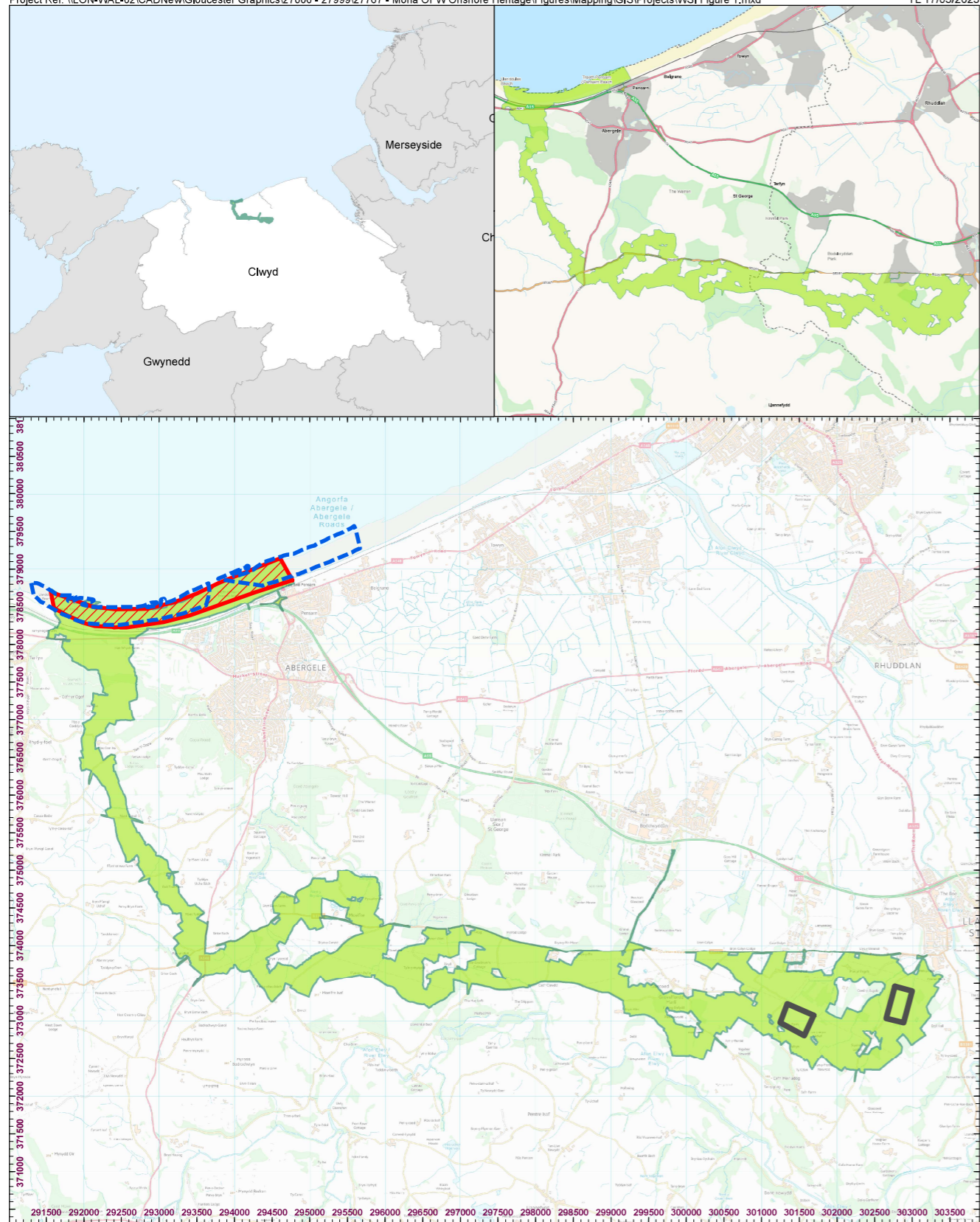
- 2.7 Regarding data management, a high resolution PDF digital copy of the DBA will be issued to the CPAT HER via <https://cpat.org.uk/heddos.html>, as well as the National Monuments Record held by the RCAHMW in Aberystwyth. In the event of new records being created, data will be formatted in order to facilitate incorporation into the HER maintained by CPAT, with the full digital archive also being issued to the National Monuments Record.
- 2.8 The data incorporated within the DBA will be archived in line with the requirements set out in *Guidance for the Submission of Data to the Welsh Historic Environment Records (HERs) (2018)*, in addition to the DBA containing a bilingual summary.


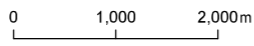





3 STANDARDS AND PERSONEL

- 3.1 The DBA will be carried out in general accordance with the ClfA *Standard and Guidance for Historic Environment Desk-Based Assessment* (October 2020 update).
- 3.2 The preparation of the DBA will be undertaken by Chris Clarke BSc (Hons) MA MClfA. Chris has extensive experience of the preparation of DBAs prepared with regard to proposed developments, several of which have fallen within the curatorship of the Welsh Archaeological Trusts.



FIGURES



  Scale at A4: 1:70,000	 MAKING COMPLEX EASY
<ul style="list-style-type: none">  Intertidal Area  Mona Proposed Onshore Development Area BP-GBR-MONA-DAT-0079  Onshore Substation Indicative Footprint BP-GBR-MONA-DAT-0079  Intertidal Survey Areas 	<p>Figure 1</p> <p>Proposed Cable Route</p>



Appendix C: Heritage Assets

Site Source No.	Name	NGR	Period
1. HER 102133	Tyddyn Bleiddyn burial chamber (SM DE007). Remains of chambered cairn extensively explored consisting of stony oval mound 0.8m high, 26m by 12m passage in west with two chambers off it	SJ 0072 7246	Neolithic
2. HER 100495	Castell Cawr hillfort (SM DE114). A hillfort of 2ha with strong univallate defences on west and south sides. One entrance apparent to west possibly inturned with single guard chamber. There is no rampart on topographically strong east side.	SH 9360 7672	Iron Age
3. HER 100491	Pen-y-Corddyn-Mawr hillfort (SM DE008). Hillfort of 9.7ha with a 5.2ha annexe to north. The defences are bivallate on the weak northern side and univallate elsewhere. There are three inturned entrances.	SH 9154 7637	Iron Age
4. HER 23082	Bodelwyddan WWI practice trenches and command post (SM FL186)	SH 999 742	Modern
5. CADW PGW(Gd)58(CON)	Gwrych Castle Grade II* Listed Historic Park and Garden (GD58). It is registered for its spectacular and romantic flight of gothic fancy, with picturesque gothic park walling, lodges, and towers, around the prominent picturesque landmark of Gwrych Castle, with a large-scale walled and turreted terraced garden.	SH 92734 77547	Post-medieval
6. PGW(Gd)54(CON)	Kinmel Park Grade II* Listed Historic Park and Garden (GD54). Formal garden probably by W.E. Nesfield dating to the late nineteenth century, shrubberies and a walled garden. The registered park and garden shares important group value with Kinmel Hall and its associated estate buildings together with parkland and garden structures.	SH 98092 75016	Post-medieval
7. PGW(C)2(DEN)	Bodelwyddan Castle Grade II Listed Historic Park and Garden (C2). Bodelwyddan is registered as a well preserved example of an eighteenth and nineteenth century landscape park, with later Arts & Crafts garden (c.1910) by the well-known garden designer Thomas Hayton Mawson (1861-1933). The registered area shares important group value with Bodelwyddan Castle, for which it provides the setting, and	SJ 00160 74596	Post-medieval

Site Source No.	Name	NGR	Period
	the numerous estate buildings of contemporary date.		
8. HER 232	Tan-yr-Ogof Lodge including adjoining walls and towers to south, east and west. Grade II* Listed Building. 19th century Castellated gate lodge conceived as one of a series to serve Gwrych Castle.	SH 91611 78053	Post-medieval
9. HER 19040	Plas Tan-yr-Ogof including adjoining walls and arches to east and west. Grade II* Listed Building. 19th century Castellated lodge, originally conceived as an estate farmhouse and one of a series of similar medievalist buildings erected on the Gwrych Castle estate.	SH 91634 78074	Post-medieval
10. HER 19041	Tan-yr-Ogof Farmhouse including adjoining arch and walls to east. Grade II* Listed Building. 19th century Castellated lodge conceived as a Gothic farm complex to serve Gwrych Castle.	SH 91678 78069	Post-medieval
11. HER 19039	Hen Wrych Lodge including adjoining crenellated boundary walls and towers. Grade II* Listed Building. Castellated gate lodge conceived as one of a series to serve Gwrych Castle.	SH 92808 78076	Post-medieval
12. HER 233	King's Lodge. Grade II* Listed Building. 19th century Castellated lodge.	SH 93942 77556	Post-medieval
13. HER 231	Gwrych Castle including attached walls and towers and Stable Block. Grade I Listed Building. A castellated scheme was prepared by the architect C A Busby as early as 1814, though this was abandoned by the owner, Lloyd Bamford Hesketh, in favour of his own designs. Immense castellated mansion in local grey limestone, slate roofs, most windows in cast iron. The nucleus has large tracery windows mainly of Perpendicular style, and is broken up by towers and turrets, chief of which is the 30m high Hesketh tower.	SH 92857 77465	Post-medieval
14. HER 149	Dinorben Hall. Grade II* Listed Building. Building of rendered stone with slated roof, stepped ridge tiles and very tall rendered brick stacks. The house is sub-medieval in origin, re-partitioned and extended in the 17th century.	SH 96882 74872	Medieval/Post-medieval
15. HER 229	Kinmel. Grade I Listed Building. The Old Kinmel House was succeeded by one built by Samuel Wyatt in 1791 for	SH 98101 74922	Post-Mmedieval

Site No.	Source	Name	NGR	Period
		Rev Edward Hughes, owner from 1786. The two storey structure is built of fine red brick with ashlar sandstone dressings, with a steeply pitched grey-green slate roof.		
16.	HER 18693	Entrance Screen to the main entrance front at Kinmel. Grade II* Listed. Iron screen and gates were designed by W E Nesfield in May 1868.	SH 98168 74925	Post-medieval
17.	HER 18681	Coach-house and Stable Range at Kinmel with terrace walls, steps and archway to east. Grade II* Listed. Single storey 19th century barn of ashlar sandstone and slate roof.	SH 98140 74836	Post-medieval
18.	HER 1385	Pen-isa'r-Glascoed Farmhouse with Garden Wall and Gate. Grade II* Listed. One to two storey farmhouse of local limestone dated by an inscription to 1540.	SH 99295 74506	Post-medieval
19.	HER 1383	Bodelwyddan Castle. Grade II* Listed Building. A large stone mansion, the playful military character of which is mainly due to the alterations and additions made for Sir John Hay Williams by Hansom and Welch, architects, in c1830-1842. The form of the earlier mansion, with its pair of advancing wings, is apparent on the southeast side. The older part of the house is of 3-storeys but additional parts are of mainly of 2-storeys.	SH 99923 74830	Post-medieval
20.	HER 1384	Bodelwyddan Castle Ice House. Grade II* Listed Building. Probably late 18th century; the ice-house may have been built on or near a mineshaft.	SH 99806 75027	Post-medieval
21.	HER 153	Plas Newydd. Grade II* Listed Building. Elizabethan storeyed gentry house built in 1583. Constructed of squared local limestone blocks with finely-tooled quoins, built on rock foundations.	SJ 00001 73038	Post-medieval
22.		Abergele Conservation Area	SH 94530 77700	Post-medieval
23.		Bodelwyddan Conservation Area	SJ 00430 75510	Post-medieval
24.		St. Asaph Conservation Area	SJ 03650 74390	Post-medieval
25.	HER 101478	Cae Garnedd cairn. Fieldname implicit of a mound or cairn. The RCAHM after a visit of 1911 believed that a concentration of stones in the north-west corner of the field was the site of the cairn - now destroyed.	SJ 0061 7334	Bronze Age

Site No.	Source	Name	NGR	Period
26.	DE037	Bedd-y-Cawr Hillfort (SM DE037). Remains of a defend enclosure or hillfort. An inland promontory hillfort, located on the south-eastern end of the ridge of Bryn Meriadog, with views south and east over the valley of the River Elwy	SJ 01316 72070	Iron Age-
27.	HER 142217	Llys Awel, earthworks. Prehistoric field system. On the NMR oblique photos, the earthworks appear to comprise two parallel banks running down the slope to meet an existing boundary bank, their straight alignment being particularly apparent.	SH 9210 7687	Prehistoric
28.	HER 104568	Ffrith y Llwynog, earthwork. Possible rectilinear enclosure.	SH 9623 7356	Prehistoric
29.		The Lower Elwy Valley Historic Landscape. This contained landscape is closely defined by the gorge of the River Elwy as it rounds Cefn Meiriadog. Several sheer limestone cliffs occur along the north east side of the valley and the area around Cefn includes one of the most important groups of Palaeolithic and later caves and rock shelters in Britain, containing Quaternary geological and archaeological deposits of international significance.	SJ 0192 7114	Multi-period
30.	HER 142218	Kinmel Park Enclosure.	SH 98390 75470	Prehistoric
31.	HER 46825	Glascoed Road follows the predicted line of a Roman road leading east-west from Chester (Deva) to Conway (Canovium).	SJ 0226 7390	Roman
32.	19024	Parish Church of St Cynbryd. Grade II* Listed Building. The church was rebuilt in 1732 before its own demolition and replacement by the present building in 1868-69. Consecrated on May 24th 1869 by Bishop Short of St. Asaph. Conceived in an eclectic Decorated style and drawing upon both curvilinear and Geometric elements.	SH 90854 78211	Post-Medieval
33.	237	Church of St. Michaels. Grade II* Listed Building. The building is of the late 12 th to early 13 th century, and largely rebuilt c1400. Extensive restoration took place in the 19 th century.	SH 94545 77645	Medieval

Site No.	Source	Name	NGR	Period
34.	HER 101393	Cae Croes Fieldname potentially referring to the location of a stone cross	SH 967 736	Medieval
35.	HER 143519	Medieval ridge and furrow earthworks identified through LiDAR analysis.	SJ 01004 73384	Medieval
36.	HER 193832	Henblas farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 92015 77107	Post-Medieval
37.	HER 193825	Plas-onn farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 92208 76703	Post-Medieval
38.	150	Faerdre. Grade II * Listed Building. House is an Elizabethan storeyed example of a fine quality and bears similarities with Plas Newydd dated 1583.	SH 96262 75441	Post-Medieval
39.	1377	Church of St Margaret. Grade II* Listed Building. The foundation stone was laid 24 th July 1856. A large church consisting of a nave and north and south aisles, chancel and porch under a massive tower.	SJ 00398 75460	Post-Medieval
40.	HER 193826	Pant Idda farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm building	SH 92077 75640	Post-Medieval
41.	HER 193824	Nant-isaf farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 92772 75801	Post-Medieval
42.	HER 193823	Nant-ganol farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 92730 75738	Post-Medieval
43.	HER 193822	Nant-fawr farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 92866 75680	Post-Medieval
44.	1460	Cathedral Church of St Asaph Grade I Listed Building. Built 1143, with significant rebuilding taking place in the 13 th century. Central tower added 1391/2. Tower was blown down in 1714. 18 th and 19 th century saw further changes to the building made.	SH 03896 74310	Medieval
45.	1469	The Old Palace. Grade II* Listed Building. Built by Bishop Bagot in 1791 with design attributed to Samuel Wyatt. Enlarged 1830-1.	SJ 03731 74211	Post-Medieval
46.	1487	Esgobty Farmhouse. Grade II* Listed Building. Fine T-plan farmhouse with 16 th /17 th timber frame origins and early	SJ 03766 74167	Post-Medieval

Site No.	Source	Name	NGR	Period
		to mid-18 th century brick encasing. Originally the Bishops Palace.		
47.	HER 119781	Llidiart y Porthmyn Farmstead as depicted on 1st edition OS map of 1880. Recorded as no trace visible in 2005	SH 92427 74741	Post-Medieval
48.	HER 193896	Pen-y-bryn farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 92799 74450	Post-Medieval
49.	1445/FL026	St Asaph. Scheduled Monument/Grade II* Listed Building. Foot bridge built 1770 by Joseph Turner of Chester.	SJ 03535 74243	Post-Medieval
50.	HER 193899	Sirior-hir farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 93873 74530	Post-Medieval
51.	HER 193900	Sirior-bach farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 93918 74134	Post-Medieval
52.	HER 194032	Bryn-tywydd farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 94462 73742	Post-Medieval
53.	HER 193901	Bryn Ewin farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 94501 74467	Post-Medieval
54.	HER 193904	Gwreiddyn farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 94821 74601	Post-Medieval
55.	HER 67123	Nant-y-bleddach, farmstead depicted on 1st edition OS map, 1880	SH 94929 74414	Post-Medieval
56.	HER 67119	Tylgarth-uchaf, farmstead depicted on 1st edition OS map, 1880	SH 95663 74785	Post-Medieval
57.	HER 67121	Twl-y-dwr, farmstead marked on 1st ed. OS mapping	SH 95663 74619	Post-Medieval
58.	HER 193905	Tan-y-mynydd farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 95313 74467	Post-Medieval
59.	HER 68807	Ffynnon-dyfyf, farmstead which may include traditional farm buildings	SH 95840 73593	Post-Medieval
60.	HER 94865	Ffrith, farmstead. House depicted on 1st edition OS map of 1880. Recorded as "no trace" in 2005	SH 96193 74488	Post-Medieval
61.	HER 94686	Ty-newydd, farmstead long abandoned	SH 96344 74379	Post-Medieval
62.	HER 68806	Glandyfyf, farmstead which may include traditional farm buildings	SH 96002 73859	Post-Medieval

Site No.	Source	Name	NGR	Period
63.	HER 193998	Ty'n-y-mynydd farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 96554 73750	Post-Medieval
64.	HER 193999	Talgrwn-bach farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 96577 73656	Post-Medieval
65.	HER 195769	Talgrwn-mawr farm identified from OS 2nd edition 25 inch map	SH 96549 73548	Post-Medieval
66.	HER 193906	Sarn-rug farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 97104 74250	Post-Medieval
67.	HER 193995	Nant Meifod farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 97464 73629	Post-Medieval
68.	HER 193908	Bryn-y-pin farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 98509 73911	Post-Medieval
69.	HER 193910	Gloddfa farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SH 99379 74390	Post-Medieval
70.	HER 115079	Coed Bryn-y-pin, farmstead noted on early Ordnance Survey mapping	SH 99192 73986	Post-Medieval
71.	HER 68952	Bryn Hen, farmstead shown on the OS 6" 1880 and 1969 maps, which may include traditional farm buildings	SH 99146 73136	Post-Medieval
72.	HER 193911	Bryn-celyn farm complex identified on OS 2nd edition 25 inch map	SJ 00122 73935	Post-Medieval
73.	HER 193989	Marli farm complex identified on OS 2nd edition 25 inch map	SJ 00248 73570	Post-Medieval
74.	HER 193988	Cae-cogau farm complex identified on OS 2nd edition 25 inch map	SJ 00352 73407	Post-Medieval
75.	HER 193983	Waen Meredydd farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SJ 01240 73663	Post-Medieval
76.	HER 193987	Tyddyn-eos farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SJ 00467 73368	Post-Medieval
77.	HER 193986	Groesffordd farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SJ 00647 73397	Post-Medieval
78.	HER 193984	Pentre-bach farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SJ 0091173233	Post-Medieval
79.	HER 193981	Pentre Meredydd farm complex identified on OS 2nd edition 25 inch	SJ 01116 72999	Post-Medieval

Site No.	Source	Name	NGR	Period
		map. Likely to contain traditional farm buildings		
80.	HER 193985	Pentre-mawr farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SJ 00883 73302	Post-Medieval
81.	HER 193977	Tan-y-bryn farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SJ 01704 72736	Post-Medieval
82.	HER 193974	Ty'n-y-ffordd-bach farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SJ 02288 72555	Post-Medieval
83.	HER 193975	Ty'n-y-ffordd-fawr farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SJ 02470 72781	Post-Medieval
84.	HER 193920	The Cottage farm complex identified on OS 2nd edition 25 inch map. Likely to contain traditional farm buildings	SJ 02321 73917	Post-Medieval
85.	HER 123456-8	Tan-yr-Ogof Caves 1-3. This is a previously unrecorded cave that features on Ebbs' website and is one of 6 caves in the Tan-yr-Ogof caves group.	SH 91399 77893	Prehistoric?
86.	HER 54884, HER 123337, HER 123459-60,	Tan-yr-Ogof Caves 4-6. This is a previously unrecorded cave that features on Ebbs' website and is one of 6 caves in the Tan-yr-Ogof caves group.	SH 91503 77944	Prehistoric?
87.	HER 70922	The Roman fort of Varae/Varis is known to have been located in the Conwy valley.	SJ 03 74	Roman
88.	HER 96075	Abergele, Llanddulas Road, Hen Wrych Farm Site 3 - Outbuilding	SH 92748 78021	Post-Medieval
89.	HER 120527	Wyddfa - House as depicted on 1st edition OS map of 1880. Recorded as no trace in 2005	SH 92642 77312	Post-Medieval
90.	HER 119795	Pant Cae Llin - House depicted on 1st edition OS map of 1880, recorded as having only 'sub-structure visible' in 2005	SH 91682 76908	Post-Medieval
91.	HER 119797	Cae Llin - House recorded as "substructure visible" in 2005. Does not appear on 1st edition OS map of 1880	SH 91832 76793	Post-Medieval
92.	HER 119799	Tan y Bwlch - Building identified at location as a result of research by G. Davies. Recorded as "no trace" in 2005	SH 9206 776814	Post-Medieval

Site No.	Source	Name	NGR	Period
93.	HER 119801	Pant – House. Nothing recorded in 1st edition OS map of 1880. Recorded as no trace in 2005	SH 92413 76527	Post-Medieval
94.	HER 120525	Cerrig Coch House - House as depicted on 1st edition OS map of 1880. Recorded as no structure in 2005	SH 9234 7624	Post-Medieval
95.	HER 67876	Bryn-gwyn - House site shown on 1st edition (1880) and 1972 OS maps	SH 93198 74977	Post-Medieval
96.	HER 120561	Sirior - House as depicted on 1st edition map of 1880. Site dates back to 13th Century. Recorded as 'no trace visible' in 2005	SH 94455 74238	Post-Medieval
97.	HER 120568	Pen-y-ffrith / Lletyr Falwen - House as depicted on 1st edition OS map of 1880. Last approximate time of occupation as noted by Davies , 1938. Recorded as "substructure visible" in 2005	SH9 4940 74005	Post-Medieval
98.	HER 120533	Glan Yr Afon - House as detailed by Davies. Recorded as "no trace" in 2005	SH 94984 74808	Post-Medieval
99.	HER 120532	Ty'n-y-Pwll - House as depicted on 1st edition OS map of 1880. Recorded as "no trace" in 2005	SH 94844 74728	Post-Medieval
100.	HER 120562	Ty Moel / Nant Bleddach - House as depicted on 1st edition OS map of 1880. Recorded as "no trace" in 2005	SH 94954 74410	Post-Medieval
101.	HER 120563	Tylgarth-isaf, house as depicted on 1st edition OS map of 1880	SH 95880 74928	Post-Medieval
102.	HER 171573	Bryn-y-gwynt, dwelling - on 1st edition Ordnance Survey mapping. There is a building on the same alignment visible on aerial photography in 2021	SH 95176 73938	Post-Medieval
103.	HER 171574	Groesffordd, dwelling – on 1st edition Ordnance Survey mapping. On the west side of a crossroads the building is aligned northeast-southwest and appears to have been demolished by 2021	SH 95358 73945	Post-Medieval
104.	HER 66223	Caer-clawdd - house site marked on 1st edition 1880 6 inch, and 1971 1:10000, OS maps	SH 98027 73514	Post-Medieval
105.	HER 66225	Ty-maen House site marked on 1st edition 1878 OS map	SH 99047 74299	Post-Medieval
106.	HER 66224	Tandderwen - House site marked on 1st edition 1879 6 inch, and 1971 1:10000, OS maps	SH 99157 73909	Post-Medieval

Site No.	Source	Name	NGR	Period
107.	HER 66229	Bryn-y-pin possible house site marked 1st edition 1880 6 inch OS map	SH 98877 73609	Post-Medieval
108.	HER 66228	Groes-ffordd - House site marked on 1st edition 1880 6 inch OS map	SH 98841 73404	Post-Medieval
109.	HER 68950	Mostyn, building or farmstead named as Mostyn, shown on the OS 6" 1880 map	SH 99051 73356	Post-Medieval
110.	HER 13752	Kinmel Park, South Lodge marked on OS 6 inch 2nd edition 1900 map	SH 99520 74050	Post-Medieval
111.	HER 125167	Coed Carreg-Dafydd, building noted on early Ordnance Survey mapping	SH 99651 73263	Post-Medieval
112.	HER 132705	Ty Capel Llanfairtalhaiarn, chapel. Typical 19th century side-entry nonconformist chapel, converted to a dwelling by 2015	SH 95521 74289	Post-Medieval
113.	HER 143535	Pentre Chapel - An early 20th century chapel	SJ 00706 73357	Modern
114.	HER 48035	Pen-y-bont, sheepfold	SH 98378 73228	Post-Medieval
115.	HER 101408	A cross in the parish called Croes Rhuddlan. Probably erected to mark a boundary	SJ 00 75	Medieval
116.	HER 165063	Abergele, milestone	SH 931 780	Post-Medieval
117.	HER 70559	Glascoed Lodge milestone	SH 9944 7400	Post-Medieval
118.	HER 143534	Ty-cnap milestone	SJ 01035 73895	Post-Medieval
119.	HER 18038	Gwrych Castle LEAD Mine	SH 9279 7756	Post-Medieval
120.	HER 102145	St Asaph monastic site. St Asaph is reported to be site of an early monastic establishment circa AD 560.; church/monastic foundation mentioned in pre-norman source.	SJ 03 74	Medieval
121.	HER 70777	Medieval pits and later remains	SJ 0326 7392	Medieval
122.	HER 18150	Pant Idda – Post-Medieval hematite mine	SH 9230 7580	Post-Medieval
123.	HER 18046	Coed Celyn – lead mine	SJ 0130 7260	Post-Medieval
124.	HER 169910	Scor – group of mine shafts seen on 1st ed OS map	SH 99354 73791	Post-Medieval
125.	HER 68953	Bryn Hen, shaft I - shown on the OS 6" 1880 map	SH 99518 73420	Post-Medieval
126.	HER 18178	Plas Newydd/Cefn – Post-Medieval lead/silver mine	SH 9950 7330	Post-Medieval
127.	HER 125166	Coed Carreg-Dafydd, mine shaft noted on early Ordnance Survey mapping	SH 99681 73296	Post-Medieval

Site No.	Source	Name	NGR	Period
128.	HER 125172	Cae-llwyd - mine shaft noted on early Ordnance Survey	SJ 01235 72641	Post-Medieval
129.	HER 125169	Pen-y-cefn, mine shaft noted on early Ordnance Survey mapping	SJ 01223 72477	Post-Medieval
130.	HER 125171	Cae-llwy – limekiln noted on early Ordnance Survey mapping	SJ 01238 72711	Post-Medieval
131.	HER 66222	Bryn-y-pin limekiln marked on 1st edition 1878 OS map	SH 98320 73925	Post-Medieval
132.	HER 68951	Bryn Hen, limekiln shown on the OS 6" 1880 map	SH 99302 73385	Post-Medieval
133.	HER 169914	Glascoed Reservoir, lime kiln seen on 1ed OS	SH 99462 73534	Post-Medieval
134.	HER 34050	Tyddyn Eos Limekiln II shown on OS 2nd edition but not visible	SJ 0037 7335	Post-Medieval
135.	HER 34049	Tyddyn Eos Limekiln I shown on OS 1st edition but not visible	SJ 0037 7335	Post-Medieval
136.	HER 68959	Plas Newydd, limekiln shown on the OS 6" 1880 map. A pile of stones which may represent the remains of this limekiln	SJ 00079 73238	Post-Medieval
137.	HER 143513	Pentre-mawr limekiln. Marked on the Ordnance Survey first edition 25" to the mile map of 1874	SJ 00852 73336	Post-Medieval
138.	HER 169912	Scor, quarry seen on 1st ed OS map	SH 99011 73778	Post-Medieval
139.	HER 169913	Mostyn, quarry seen on 1st ed OS map	SH 99281 73396	Post-Medieval
140.	HER 85367	Castle Woods, gravel pit recorded on OS Provisional edition map	SH 91678 77970	Post-Medieval
141.	HER 143515	Tyddyn-eos quarry. Stone quarry at Tyddyn-eos, west of St Asaph. Marked on the Ordnance Survey first edition 25" to the mile map of 1874	SJ 00367 73324	Post-Medieval
142.	HER 125168	Plas Newydd, quarry noted on early Ordnance Survey mapping	SJ0 0109 73215	Post-Medieval
143.	HER 143516	Pentre-mawr stone quarry. Marked on the Ordnance Survey first edition 25" to the mile map of 1874	SJ 00807 73326	Post-Medieval
144.	HER 67877	Bryn-gwyn open field system shown on 1st edition (1880) OS map	SH 93149 74869	Post-Medieval
145.	HER 58195	Glascoed Water Treatment Works, field system. Remains of field boundaries and drains identified during excavation at site of new water treatment plant	SH 99 73	Post-Medieval
146.	HER 13753	Coed Ty-newydd, enclosure associated with the lost cottage of Ffrith	SH 96186 74493	Post-Medieval

Site No.	Source	Name	NGR	Period
147.	HER 67874	Nant-fawr orchard shown on 1st edition (1880) OS map	SH 92916 75664	Post-Medieval
148.	HER 67875	Nant-fawr well shown on 1st edition (1880) and 1972 OS maps	SH 92859 75628	Modern
149.	HER 68956	Careg Dafydd, well shown on the OS 6" 1880 map.	SH 99791 73127	Post-Medieval
150.	HER 67885	Bryn-gwyn well shown on 1972 OS map.	SH 93194 74903	Modern
151.	HER 67122	Gwreiddin well depicted on 1st edition OS map, 1880.	SH 94930 74598	Post-Medieval
152.	HER 67120	Tylgarth-uchaf well depicted on 1st edition OS map, 1880	SH 95760 74783	Post-Medieval
153.	HER 68808	Ffynnon-dyfyr, well shown on the OS 6" 1880 map	SH 95854 73571	Post-Medieval
154.	HER 68025	Talgrwn-mawr, well shown on OS 6" 1880 map and later maps	SH 96522 73553	Post-Medieval
155.	HER 143514	Groesffordd well marked on the Ordnance Survey first edition 25" to the mile map of 1874	SJ 00710 73621	Post-Medieval
156.	HER 66227	Pen-isaf-Glascoed pond II - marked on 1st edition 1878 6 inch OS map	SH 99021 74306	Post-Medieval
157.	HER 66226	Pen-isaf-Glascoed pond I - Pond marked on 1st edition 1878 6 inch OS map	SH 99200 74348	Post-Medieval
158.	HER 164090	Pensarn, wreck. Partially submerged remains of a wooden vessel. The lower elements of the stern, port and starboard futtocks and possible bowsprit are visible.	SH 94041 78833	Post-Medieval
159.	HER 130280	Percival Provost crash site	SH 99 74	Modern
160.	HER 130277	De Havilland Vampire crash site	SJ 01 73	Modern
161.	HER 34048	Hendy Farm ridge and furrow noted on aerial photos.	SJ 0135 7285	Medieval
162.	HER105497	Groesffordd Marli settlement. It is a linear settlement, consisting of a small number of farms, cottages and a chapel strung at intervals along a minor road. In the modern settlement the only concentration of buildings has the chapel as its focus.	SJ 00 73	Multi-period
163.	HER 72130	Bodelwyddan Castle. Large Country House with associated wings and contemporary features.	SH 999 745	Post-Medieval
164.	HER 17137	Bodelwyddan National School and war memorials. Built 1857, designed by	SJ 00001 75001	Post-Medieval

Site No.	Source	Name	NGR	Period
		John Gibson. Near church, currently private houses		
165.	HER 129592	Pensarn, South Parade, Canolfan Dewi Sant. Church building subject of photographic survey in 2010.	SH 94810 78599	Post-Medieval
166.	HER 120526	Pen Y Cefn, Ty Gpar. House as depicted on 1st edition OS map of 1880.	SH 91815 77585	Post-Medieval
167.	HER 85364	Pen cefn. Rectangular quarry cut stone cottage previously known as Pen Cefn. In use as a gamekeepers cottage but may have been used as a mine office.	SH 91909 77576	Post-Medieval
168.	HER 125066	Mine Cottage, structures. Structure noted on early Ordnance Survey mapping.	SH 99754 74997	Post-Medieval
169.	HER 193918	Rose Hill farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 03114 73881	Post-Medieval
170.	HER 193779	Tan-yr-ogof farm, complex identified on OS 2nd edition 25 inch map.	SH 91661 78084	Post-Medieval
171.	HER 68960	Plas Newydd, building I. A building shown on the OS 6" 1880 and 1969 maps.	SJ 00037 73114	Post-Medieval
172.	HER 68963	Plas Newydd, building II. A building shown on the OS 6" 1880 and 1969 maps.	SJ0016872990	Post-Medieval
173.	HER 193994	Pen-y-bryn farm. Farm complex identified on OS 2nd edition 25 inch map.	SH 97754 73172	Post-Medieval
174.	HER 193992	Maes farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 00401 72785	Post-Medieval
175.	HER 193991	Ysgubor-newydd farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 00642 72542	Post-Medieval
176.	HER 68955	Careg Dafydd, farmstead. A farmstead named as Careg Dafydd, shown on the OS 6" 1880 and 1969 maps, which may include traditional farm buildings.	SH 99757 73136	Post-Medieval
177.	HER 193990	Plas-newydd farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 00013 73028	Post-Medieval
178.	HER 193979	Cae-llwyd farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 01110 72790	Post-Medieval
179.	HER 193980	Hen-dy farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 01236 72923	Post-Medieval

Site No.	Source	Name	NGR	Period
180.	HER 193978	Isfryn farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 01408 72546	Post-Medieval
181.	HER 193976	Ty-celyn farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 01450 72290	Post-Medieval
182.	HER 193973	Ty'n-y-ffordd farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 02105 72344	Post-Medieval
183.	HER 194078	Glascoed-bach farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 02348 71933	Post-Medieval
184.	HER 193972	Ty'n-y-coed farm. Farm complex identified on OS 2nd edition 25 inch map.	SJ 03338 72557	Post-Medieval
185.	HER 193909	Pen-isa'r Glasgoed farm. Farm complex identified on OS 2nd edition 25 inch map.	SH 99301 74472	Post-Medieval
186.	HER 103102	Penrhewl Smithy.	SJ 0342 7405	Post-Medieval
187.	HER 103529	Bodelwyddan Old Kiln.	SH 9970 7492	Post-Medieval
188.	HER 129910	Engine Hill, limekiln. Depicted on first edition OS 25" to the mile map of 1872.	SH 99541 74596	Post-Medieval
189.	HER 103541	Penisa'r Glasgoed Kiln.	SH 99440 74559	Post-Medieval
190.	HER 68957	Plas Newydd shaft I. A shaft shown on the OS 6" 1880 map.	SH 99919 73116	Post-Medieval
191.	HER 68958	Plas Newydd shaft II. shaft shown on the OS 6" 1880 map.	SH 99919 73116	Post-Medieval
192.	HER 18009	Bodelwyddan Mine. Lead/Silver/Zinc mine (Early 19th century-1862).	SH 9970 7490	Post-Medieval
193.	HER 125067	Kinmel Park, mine shaft II. Mine shaft noted on early Ordnance Survey mapping.	SH 99507 74958	Post-Medieval
194.	HER 125068	Kinmel Park, mine shaft I. Mine shaft noted on early Ordnance Survey mapping.	SH 99457 74864	Post-Medieval
195.	HER 125069	Kinmel Park, mine shaft III. Mine shaft noted on early Ordnance Survey mapping.	SH 99549 74877	Post-Medieval
196.	HER 125070	Kinmel Park, mine shaft IV. Mine shaft noted on early Ordnance Survey mapping.	SH 99599 74918	Post-Medieval
197.	HER 125071	Kinmel Park, mine shaft V. Mine shaft noted on early Ordnance Survey mapping.	SH 99661 74853	Post-Medieval

Site No.	Source	Name	NGR	Period
198.	HER 129905	Kinmel Park, mine shaft VI. Mine shaft noted on early Ordnance Survey mapping.	SH 99445 74729	Post-Medieval
199.	HER 129906	Kinmel Park, quarry. A limestone quarry associated with a lime kiln (PRN 103541) beside the road called Engine Hill. Depicted on the first edition OS map of 1872.	SH 97735 74680	Post-Medieval
200.	HER 165078	Llandulas & Rhydr-y-foel, milestone. Post medieval milestone, on the A547, set in stone wall.	SH 914 780	Post-Medieval
201.	HER 164939	St Asaph, milestone. On the B5381, Lower Denbigh Road	SJ 0353 7368	Post-Medieval
202.	HER 66230	Wigfair pond I. Pond marked on 1st edition 1880 and 1969 6 inch OS maps.	SJ 02747 72494	Post-Medieval
203.	HER 66231	Wigfair pond II. Pond marked on 1st edition 1880 and 1969 6 inch OS maps.	SJ 02935 72478	Post-Medieval
204.	HER 66232	Wigfair pond IV. Pond marked on 1st edition 1880 and 1969 6 inch OS maps.	SJ 02427 72165	Post-Medieval
205.	HER 66233	Wigfair pond V. Pond marked on 1st edition 1880 and 1969 6 inch OS maps.	SJ 02577 72057	Post-Medieval
206.	HER 66234	Wigfair pond III. Pond marked on 1st edition 1880 and 1969 6 inch OS maps.	SJ 02714 72207	Post-Medieval
207.	HER 66127	Kinmel Park Camp, pond II. Pond depicted on 1st edition (1878) 6 inch OS map.	SH 99418 74605	Post-Medieval
208.	HER 66128	Kinmel Park Camp, pond III. Pond depicted on 1971 6 1:10000 OS map.	SH 99581 74769	Post-Medieval
209.	HER 129611	Bodelwyddan Castle, Kinmel Park Camp hut III. Aerofilms photograph A217940 of 1971 shows 3 single storey huts of matchboard construction at the back of Bodelwyddan Castle. They have every appearance of being of WWI vintage	SH 9980 7482	Modern
210.	HER 129609	Bodelwyddan Castle, Kinmel Park Camp hut I & II. Aerofilms photograph A217940 of 1971 shows 3 single storey huts of matchboard construction at the back of Bodelwyddan Castle. They have every appearance of being of WWI vintage	SH 9973 7484	Modern

Site No.	Source	Name	NGR	Period
211.	HER 152462	Kinmel Park Camp, Bodelwyddan. WWI military camp.	SH 99647 74956	Modern
212.	HER 129936	Bodelwyddan Castle Park. Tunnel associated with military features.	SH 99806 74480	Modern
213.	HER 129911	Bodelwyddan Castle, Lowther College, air-raid shelter I & II.	SH 99899 74731	Modern
214.	HER 85370	Castle Woods WWII lookout station. Concrete base c.2m square with red brick foundations located on headland overlooking Llandulas.	SH 91732 77719	Modern
215.	HER 145128	St Asaph, St Asaph Cathedral Memorial Standards, war memorials.	SJ 03001 74001	Modern
216.	HER 25254-25261	Possible Bronze Age Barrow cemetery, although could be later included associated small enclosures	SH 9600 7328	Prehistoric
217.	HER 68809	Pen-y-mynydd, farmstead shown on the OS 6" 1880 map	SH 95544 73571	Post-Medieval
218.	HER 194007	Pwll-y-cibau-bach farm identified on OS 2nd edition 25 inch map.	SH 94714 73434	Post-Medieval
219.	HER 194006	Pwll-y-cibau-mawr farm identified on OS 2nd edition 25 inch map.	SH 94561 73250	Post-Medieval
220.	HER 193996	Bron-yr-haul farm identified on OS 2nd edition 25 inch map.	SH 97000 73231	Post-Medieval
221.	HER 125782	Ty-uchaf, house site noted on early Ordnance Survey mapping.	SH 96481 73083	Post-Medieval
222.	HER 68026	Talgrwn-mawr sheepfold noted on the OS 1:10,000 1971 map.	SH 96140 73161	Modern
223.	HER 69441	Pwll-y-cibau-mawr well marked on 1970 1:10000 OS map.	SH 94591 73135	Modern
224.	HER 68027	Talgrwn-mawr trackway marked on the OS 6" 1880 map.	SH 96379 73022	Post-Medieval
225.	1402/FL018	Rhuddlan Bridge Scheduled Monument/Grade II* Listed Building. remains of a bridge, dating to the medieval or post-medieval period. A bridge has been documented over the Clwyd at Rhuddlan from 1278, with work documented in 1372 and 1383. The present bridge carries a tablet with the date 1595, but it has been remodelled in 1959 to allow a widened roadway to be carried. It consists of a stone bridge with two unequal arches.	SJ 02184 77977	Medieval
226.	14977/FL004	Rhuddlan Castle Scheduled Monument/Grade I Listed Building.	SJ 02489 77913	Medieval

Site No.	Source	Name	NGR	Period
		Building of the castle followed the capture of the borough by Edward I in 1277. Concentric plan with inner and outer wards. The outer ward is enclosed by a wide dry moat, and is protected to the S by a river wall and tower.		
227.	FL129	Part of Site of Norman Borough Scheduled Monument. Located to the north, east and south of the Norman motte and bailey castle (Twthill), the borough is recorded in the Domesday book as being established by Robert 'of Rhuddlan' and earl Hugh. By 1086 the borough contained 18 burgesses, a church and a mint.	SJ 02913 77600	Medieval
228.	FL015	Twthill (Further and Additional Areas) Scheduled Monument. Monument comprises the remains of a medieval motte and bailey castle. Built in 1073, by Robert 'of Rhuddlan', the castle sits on the eastern side of the river Clwyd. The motte stands 18m high above the river, and was protected inland by a natural valley and an artificial ditch; beyond this to the north, lies the bailey.	SJ 02639 77680	Medieval
229.	FL068	Rhuddlan Town Banks Scheduled Monument. This monument comprises the remains of the medieval town defences of Rhuddlan. Begun around 1280 by King Edward I, the defences protected the new chartered borough of Rhuddlan.	SJ 02915 77660	Medieval
230.	FL102	Criccin Cross Scheduled Monument. The monument consists of a cross shaft and is located on the top of a small hill. It has a rectangular stone base, with a chamfered upper edge and mutilated stops at the corners. The base stone is fractured, and has been repaired with cement and two iron dowels. Set into a lead-lined socket are the remains of a rectangular shaft with chamfered edges, measuring 2ft 6in high.	SJ 04118 77147	Medieval
231.	PGW(C)28(DEN)	Plas Heaton Grade II Registered Historic Park and Garden. Situated on the western edge of the Vale of Clwyd, to the north-west of Denbigh. The park was probably made in the	SJ 03292 69130	Post-Medieval

Site No.	Source	Name	NGR	Period
		early nineteenth-century at the time of the re-modelling of the house. There are two drives, approaching the house from the north and south, off the B5428 road each with an entrance flanked by gate piers and an entrance lodge.		
232.	PGW(C)35(DEN)	St. Beuno's College Grade II Registered Historic Park and Garden. St Beuno's College was founded in 1848, although the Jesuits had owned a farm in the Tremeirchion area since 1662. Lying in the lee of Moel Maenefa, St Beuno's faces west toward Snowdon and the Great Orme at Llandudno, with the Vale of Clwyd below. It was built in two main periods, 1846-49, and 1873-74.	SJ 08072 74016	Post-Medieval
233.	PGW(C)23(DEN)	Brynbella Grade II Registered Historic Park and Garden. Registered for its historic interest as a small late eighteenth-century park and informal garden with later overlays, which provides the setting to Brynbella Hall and its associated estate buildings. Also important for its close historical association with Hester Lynch Piozzi.	SJ 07804 72326	Post-Medieval
234.	219	Tremeirchion Conservation Area	SJ 0818 7299	Post-Medieval
235.	1392	Plas-is-Illan Grade II* Listed Building. Dated 1765 on its main door lintel. It appears to be planned as a formal unity with its two barns, which are probably contemporary, though the single storey links between house and barns were probably added later.	SJ 05434 77226	Post-Medieval
236.	1376	Bodeugan Farmhouse Grade II* Listed Building. Probably late C17 three-storey farmhouse, said to be of brick but partly rendered. Gabled dormers.	SJ 05685 74815	Post-Medieval
237.	1418	Dovecote at Bodeugan Farm Grade II* Listed Building. Red brick dovecote with band at loft level and oval loft openings, stone-lined. Entrance doors at ground floor, one filled in. Condition fair, but cracks in east wall.	SJ 05665 74836	Post-Medieval
238.	26459	St Beuno's College Grade II* Listed Building. Earliest part of St Beuno's is an irregular suite of buildings around	SJ 07991 74230	Post-Medieval

Site No.	Source	Name	NGR	Period
		a quadrangle, designed by J A Hansom, architect, in 1846-9 as a Jesuit college for training for the priesthood. The buildings are planned around a quadrangle, but it is not designed to resemble a cloister.		
239.	1065	Plas Heaton Grade II* Listed Building. Originally called Plas Newydd and was established by the late C17 as a dower house of the Griffith family of neighbouring Garn. However, a first-half C17 framed and studded door, incorporated within the fabric, together with the evidence provided by an early C17 box-framed barn within the farm group (now encased in stone), suggest the site has earlier origins.	SJ 03106 69166	Post-Medieval
240.	19925	Wigfair Hall Grade II* Listed Building. Large irregularly-planned country house in Tudorbethan style. Of red Ruabon brick construction on a snecked limestone plinth with steeply-pitched tiled roof; sandstone dressings.	SJ 02777 71228	Post-Medieval
241.	1382	Gwernigron Dovecote Grade II* Listed Building. Features the style of stepped gable often found on high status buildings in this region in the late C16 or early C17.	SJ 02522 75167	Post-Medieval

Appendix D: Grade II Listed Buildings within 1 km of the Mona Proposed Onshore Development Area

Name	Distance to Cable Corridor (approx.)
Stable and Cart House Range at Tan-yr-Ogof Farm	25m
Northern Towers	70m
Gwrych Estate Boundary Wall from Tan-yr-Ogof to Gwrych Lodge	0m
Gwrych Estate Boundary Wall to S side of Abergele Road	550m
Lady Eleanor's Tower	135m
Hen Wrych	100m
Barn, Agricultural Range and associated garden walls and towers at Hen Wrych Farm	100m
Glan Aber	850m
Stables and Coach-house Range at Glan Aber	850m
Estate Boundary Wall to Gwrych Castle Park (part in Abergele Community)	1km
Nant-y-Bella Lodge	700m
Betws Lodge	450m
Tyddyn-uchaf Old Farmhouse	800m
Tyddyn-Morgan	350m
Bryngwenallt	800m
Lodge to Bryngwenallt	1km
Pant Idda	475m
Nant Fawr	150m
Ty Mawr	500m
Milestone	375m
Sirior Bach	75m
Pen-yr-Allt	240m
Former Brewhouse at Pen-yr-Allt	230m
L-shaped Agricultural Range at Pen-yr-Allt	250m
Barn at Dinorben Hall	890m
Dinorben Lodge	760m
Columns in the quadrants of the Venetian Garden at Kinmel	975m
Fountain in Venetian Garden at Kinmel	950m
Ruins of Old Kinmel, in the grounds of Kinmel Park	1km
Gazebo and Summer House in Venetian Garden at Kinmel, including attached steps	900m
Walls and Gate Piers to the Venetian Garden at Kinmel, with 3 sets of steps	910m

Name	Distance to Cable Corridor (approx.)
Gates and Gate Piers at the W end of the Broad Walk	790m
Adam and Eve Gate at Kinmel	870m
Garden Bridge and attached sunken service road walls and abutments at Kinmel	850m
Gates and Gate Piers at the E end of the Broad Walk	820m
Kitchen Garden Walls SE of Kinmel	730m
Ruins of Old Kinmel, in the grounds of Kinmel Park	690m
Icehouse to the NW of the Kitchen Garden at Kinmel	630m
Garden House	620m
Pen-isa'r-Glascoed Outbuilding	100m
Kinmel East Gatepiers and Railings	120m
Glascoed Lodge on Bodelwyddan Park Boundary	10m
Ddol	325m
Groesffordd Marli Chapel	35m
Bryn Celyn Lodge on Bodelwyddan Park Boundary	10m
Garden Shelter in Bodelwyddan Castle Garden	170m
Play House in Bodelwyddan Castle Garden	160m
Wall of Bodelwyddan Castle Garden with Bothy at W and Gateway at E	140m
Obelisk in Bodelwyddan Castle Garden	210m
Sundial in Bodelwyddan Castle Walled Garden	180m
Terrace wall of main front of Bodelwyddan Castle	380m
Former Coach House, Stables & Outbuildings to Staverton & Southcroft	5m
Southcroft including North Cottage	5m
Staverton	5m
Pentre Meredydd	10m
Barn to NW of Faenol-broper Farmhouse	900m
Felin-y-gors	100m
Bodelwyddan Park Wall with entrances and cottages	130m
Gors Mill Cottage	150m
Tyddyn-isaf	440m
1, The Village	635m
2, The Village	625m
3, The Village	620m
4, The Village	615m

Name	Distance to Cable Corridor (approx.)
5, The Village	610m
6, The Village	605m
7, The Village	600m
8, The Village	595m
9, The Village	590m
10, The Village	585m
11, The Village	580m
12, The Village	575m
13, The Village	570m
14, The Village	565m
15, The Village	560m
16, The Village	555m
17, The Village	550m
18, The Village	545m
Bodelwyddan Village Hall (former School)	515m
Fountain near Marble Church	490m
Bodelwyddan Vicarage	585m
Churchyard Wall of St Margaret's	560m
English Presbyterian Church	250m
Pentre-mawr	250m
Abergele and Pensarn Railway Station Booking Hall	10m
Abergele and Pensarn Railway 'Up' Platform Building	20m
Abergele and Pensarn Railway 'Down' Platform Building	20m
Signal Box at Abergele and Pensarn Railway Station	100m
Church of St Theresa of Lisieux	575m
Eglwys Crist Addoldy'r Annibynnwyr	650m
The Castle, Y Castell	700m
Monument to the great rail disaster of 1868 in the Churchyard of Church of St Michael	780m
Ty-mawr Terrace 2	850m
Ty-mawr Terrace 3	850m
Lych Gate to Church of St Michael	880m
National Westminster Bank	900m
Shop adjoining former Medical Hall	920m

Name	Distance to Cable Corridor (approx.)
Former Medical Hall	920m
Telephone Call-box outside the Harp Inn	920m
The Pen-y-bont Inn	925m
St Paul Addoldy yr Eglwys Fethodistiadd	975m
Bowden House	970m
Abergele Community Centre	915m
Schoolmaster's House to the former Abergele Church School, with outbuildings to the E	925m
Glan Aber	935m
Stables and Coach-house Range at Glan Aber	935m
Boundary Stone at junction of Rhyd-y-Foel and Clipteryn Roads	300m
Bryn Tirion	750m
Church Hall including Tool Shed to S	600m
Memorial Cross at St Cynbryd's Church	700m
Lychgate at St Cynbryd's Church	700m
Ty Ucha Cottage	700m
Ty Ucha Bach	700m
Ty Ucha 1	700m
Ty Ucha 2	700m
Ty Ucha House	700m
Ty Ucha 3	720m
Telephone Call-box outside Post Office Stores	800m
Bryn-Ffanigl-Uchaf	750m
Sirior Goch	350m
Tower on Tower Hill	1km
Former Brewhouse at Faerdre	750m
Primary Barn at Faerdre	750m
Former Domestic Range at Plas Isaf	950m
Plas Isaf	960m
Pont Meredydd	900m
Pont Meredydd (partly in Llanefydd community)	900m
Tan-y-Gaer	850m
Barn at Dinorben Hall	600m
Dinorben Lodge	350m

Name	Distance to Cable Corridor (approx.)
Pont y Ddol (partly in Llanefydd community)	800m
Pont y Ddol (partly in Llanefydd community)	820m
Rose Hill House	10m
April Cottage	100m
Plas Yn Roe	130m
The Hendre	140m
Church of St Mary	850m
Glan Elwy	240m
Wigfair Isaf	900m
Bryn Asaph including Gate House Range	850m
H.M.Stanley Hospital (front range plus attached cross-plan ranges & Chapel only)	1km
Greenhouse at Talardy Hotel	1km
Walled Garden at Talardy Hotel	950m
Talardy Hotel	950m
Glandwr (St. Asaph Cricket & Social Club)	760m
Min-Afon	740m
Roe Gau	940m
Suncot	620m
The Court House	1km
St. Asaph V.P. School	950m
Rosslyn	950m
Sundial at Kentigern Hall	860m
Translator's Memorial	820m
The Old Rectory	810m
St. Asaph Diocesan Office	820m
H.M. Cleaver & Co. (Solicitors)	800m
Barrow Crafts (including Antiques Shop)	800m
Former Barber Shop	790m
House at St. Asaph Auction Rooms	775m
St. Asaph Auction Rooms	770m
Glasgow House including County Cleaners, Halifax Building Society & Shoe Repairs	755m
Midland Bank	740m

Name	Distance to Cable Corridor (approx.)
Red Lion P.H.	740m
Elwy Bank including D.P. Nash	730m
Beulah House (K&M Massey, including St. Asaph Video)	720m
Conservative Club	710m
Including Yu's Chinese	705m
1 High Street	700m
1A High Street	700m
The Barrow Arms P.H.	670m
Kinmel Arms P.H.	680m
Greengrocer's Shop	690m
Sundial in the Churchyard to St.Kentigern & St.Asaph Parish Church	680m
The old China Shop, including China House	670m
Lodge & Gatepiers at driveway to the Old Palace	630m
Tithe Barn House	620m
Palace Gardens	600m
Garden Wall at Esgobty Farm	630m
Dovecote at Esgonty Farm	600m
Mary Short Memorial Drinking Fountain	590m
Railings & Boundary Walls to St. Kentigern & St. Asaph Parish Church	540m
Gatepiers & Gate at the Old Deanery	450m
The Old Deanery	400m

Appendix E: Grade II Listed Buildings within 5 km of the Mona Onshore Substation option 7 and within the ZTV

Name	Distance to eastern substation option (approx.)
Rose Hill House	300m
Former Coach House, Stables & Outbuildings to Staverton & Southcroft	300m
Southcroft including North Cottage	300m
Staverton	300m
Pentre Meredydd	1.5km
Groesffordd Marli Chapel	2.5km
Bryn Celyn Lodge on Bodelwyddan Park Boundary	2.25km
Garden Shelter in Bodelwyddan Castle Garden	3.2km
Play House in Bodelwyddan Castle Garden	3.2km
Wall of Bodelwyddan Castle Garden with Bothy at W and Gateway at E	3.2km
Obelisk in Bodelwyddan Castle Garden	3.2km
Sundial in Bodelwyddan Castle Walled Garden	3.2km
Terrace wall of main front of Bodelwyddan Castle	3.2km
Church of St Mary	1.8km
Stable and Coachhouse Range at Plas-yn-Cefn	2.1km
Former Carthouse Block at Plas-yn-Cefn	2.1km
Former Smithy Range at Plas-yn-Cefn	2.1km
L-shaped Barn Range at Plas-yn-Cefn	2.1km
Agricultural Range and adjoining Garden Walls at Plas-yn-Cefn	2.1km
Former Stable Block at Plas-yn-Cefn	2.1km
Former Laundry Block at Plas-yn-Cefn	2.1km
Plas-yn-Cefn	2.1km
Terraces and Forecourt Walls at Wigfair Hall	1.8km
Carthouse Range at Plas Heaton (with incorporated flat to first floor)	4km
Sundial at Plas Heaton	4km
Stable and Carthouse Range at Plas Heaton	4km
C-shaped Agricultural Complex at Plas Heaton	4km
Ice House at Plas Heaton	4km
Kitchen Garden Walls including associated Lean-to Sheds and adjoining Melon House at Plas Heaton	4km
Bryn Asaph including Gate House Range	1km
Bennar	5km
Ty-mawr Farm Buildings at North of Yard	4.75km
Ty-mawr Farmhouse	4.75km

Name	Distance to eastern substation option (approx.)
Ty-mawr Boundary Wall facing Tremeirchion Road	4.75km
Ty-mawr Farm Buildings at West of Yard	4.75km
Ty-mawr Farm Buildings at South of Yard	4.75km
Terrace retaining wall parallel to west front of St Beuno's	5km
The Tremeirchion Cross	5km
Garden steps parallel to south front of St Beuno's (Upper Part)	5km
Garden steps parallel to south front of St Beuno's (Lower Part)	5km
Bodeugan Outbuildings	2.8km
Rhuallt Administrative Education Centre (Former Rhuallt Village School)	4.3km
Glanyrafon	4.4km
Rhuallt Hall	4.6km
Steps and gatepiers of Rhuallt Hall	4.6km
Dovecote at Rhuallt Hall	4.7km
Pistyll	4.36km
Coach House at Pengwern Hall with Outbuildings Range to W	3.1km
Georgian House (former Stables) at Pengwern Hall	3.1km
Pengwern Hall (Pengwern College)	3.1km
Garden Cottage at Pengwern Hall	3.1km
Woodwork Block (former Coach House) at Pengwern Hall	3.1km
Rhydyddauddwr Farmhouse	3.1km
Cowhouse and Stable Range at Rhydyddauddwr Farm	3.1km
Shelter Shed at Rhydyddauddwr Farm	3.1km
Barn at Rhydyddauddwr Farm	3.1km
Criccin Fawr Farmhouse	3.75km
Criccin Cross	3.6km
Tir-hwch Farmhouse	3.6km
Plas-is-Ilan West Agricultural Range	4.3km
Plas-is-Ilan East Agricultural Range (now Domestic Units)	4.3km
Tan-Ilan Farmhouse Range	4.75km
Sundial at Kentigern Hall	1.2km
Translator's Memorial	1.1km
The Old Rectory	1.1km
St. Asaph Diocesan Office	1.1km

MONA OFFSHORE WIND PROJECT

Name	Distance to eastern substation option (approx.)
H.M. Cleaver & Co. (Solicitors)	1km
Barrow Crafts (including Antiques Shop)	1km
Former Barber Shop	1km
House at St. Asaph Auction Rooms	1km
St. Asaph Auction Rooms	1km
Glasgow House including County Cleaners, Halifax Building Society & Shoe Repairs	1km
Midland Bank	1km
Red Lion P.H.	950m
Elwy Bank including D.P. Nash	950m
Beulah House (K&M Massey, including St. Asaph Video)	950m
Conservative Club	950m
Including Yu's Chinese	950m
1 High Street	950m
1A High Street	950m
The Barrow Arms P.H.	950m
Kinmel Arms P.H.	950m
Greengrocer's Shop	950m
Sundial in the Churchyard to St.Kentigern & St.Asaph Parish Church	950m
The old China Shop, including China House	950m
Lodge & Gatepiers at driveway to the Old Palace	900m
Tithe Barn House	900m
Palace Gardens	900m
Garden Wall at Esgobty Farm	900m
Dovecote at Esgonty Farm	900m
Mary Short Memorial Drinking Fountain	900m
Railings & Boundary Walls to St. Kentigern & St. Asaph Parish Church	900m

Appendix F: Grade II Listed Buildings within 5 km of the Mona Onshore Substation option 2 and within the ZTV

Name	Distance to western substation option (approx.)
Pentre Meredydd	150m
Former Coach House, Stables & Outbuildings to Staverton & Southcroft	1km
Southcroft including North Cottage	1km
Staverton	1km
Sundial at Kentigern Hall	2.5km
Translator's Memorial	2.5km
The Old Rectory	2.5km
St. Asaph Diocesan Office	2.4km
H.M. Cleaver & Co. (Solicitors)	2.4km
Barrow Crafts (including Antiques Shop)	2.4km
Former Barber Shop	2.4km
House at St. Asaph Auction Rooms	2.4km
St. Asaph Auction Rooms	2.4km
Glasgow House including County Cleaners, Halifax Building Society & Shoe Repairs	2.4km
Midland Bank	2.4km
Red Lion P.H.	2.3km
Elwy Bank including D.P. Nash	2.3km
Beulah House (K&M Massey, including St. Asaph Video)	2.3km
Conservative Club	2.3km
Including Yu's Chinese	2.3km
1 High Street	2.3km
1A High Street	2.3km
The Barrow Arms P.H.	2.3km
Kinmel Arms P.H.	2.3km
Greengrocer's Shop	2.3km
Sundial in the Churchyard to St. Kentigern & St. Asaph Parish Church	2.3km
The old China Shop, including China House	2.3km
Lodge & Gatepiers at driveway to the Old Palace	2.2km
Tithe Barn House	2.2km
Palace Gardens	2.2km
Garden Wall at Esgobty Farm	2.2km
Dovecote at Esgonty Farm	2.2km
Mary Short Memorial Drinking Fountain	2.2km

Name	Distance to western substation option (approx.)
Railings & Boundary Walls to St. Kentigern & St. Asaph Parish Church	2.2km
Groesffordd Marli Chapel	1km
Bryn Celyn Lodge on Bodelwyddan Park Boundary	1km
Garden Shelter in Bodelwyddan Castle Garden	2.1km
Play House in Bodelwyddan Castle Garden	2.1km
Wall of Bodelwyddan Castle Garden with Bothy at W and Gateway at E	2.1km
Obelisk in Bodelwyddan Castle Garden	2.1km
Sundial in Bodelwyddan Castle Walled Garden	2.1km
Terrace wall of main front of Bodelwyddan Castle	2.1km
Bodelwyddan Park Wall with entrances and cottages	1.8km
Gors Mill Cottage	1.8km
Felin-y-gors	1.8km
Tyddyn-isaf	2km
Gwernigron Farmhouse	2.1km
Fferm Farmhouse	3.6km
Coach House at Pengwern Hall with Outbuildings Range to W	3.3km
Georgian House (former Stables) at Pengwern Hall	3.3km
Pengwern Hall (Pengwern College)	3.3km
Garden Cottage at Pengwern Hall	3.3km
Woodwork Block (former Coach House) at Pengwern Hall	3.3km
Rhydyddaiddwr Farmhouse	3.8km
Cowhouse and Stable Range at Rhydyddaiddwr Farm	3.8km
Shelter Shed at Rhydyddaiddwr Farm	3.8km
Barn at Rhydyddaiddwr Farm	3.8km
Criccin Fawr Farmhouse	4.7km
Criccin Cross	4.7km
Bodeugan Outbuildings	4.2km
Church of St Mary	1.2km