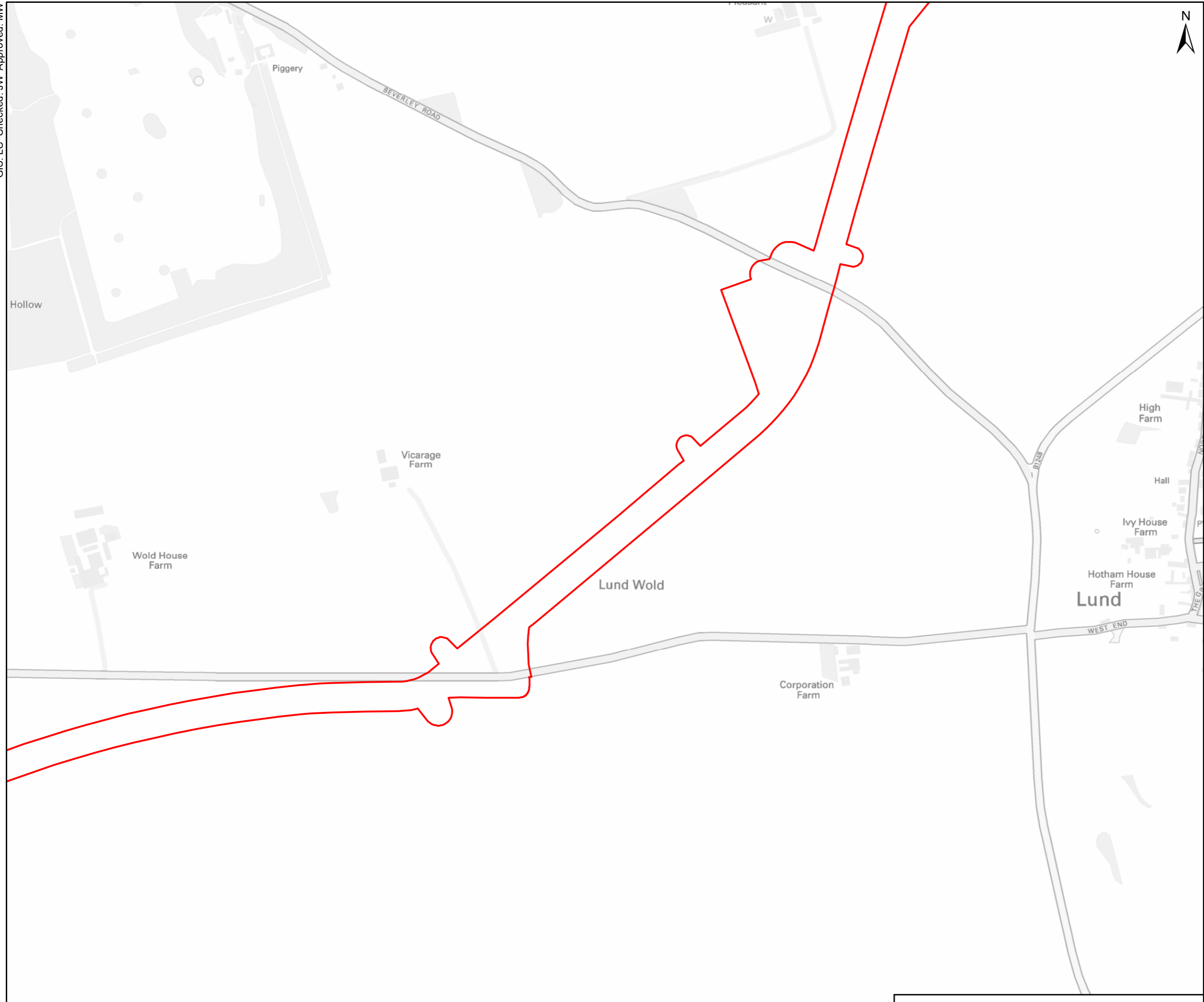
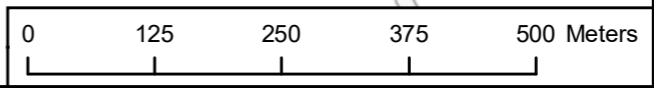
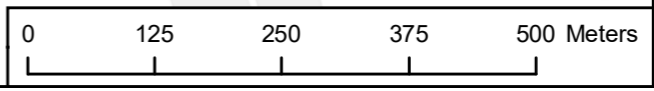
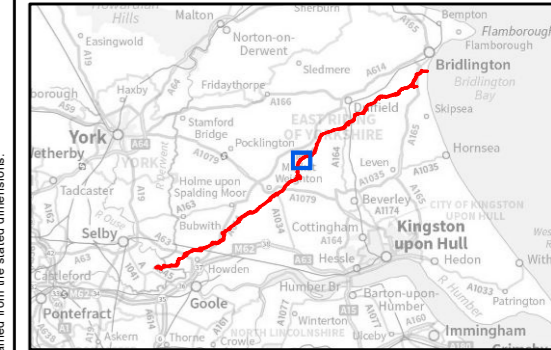


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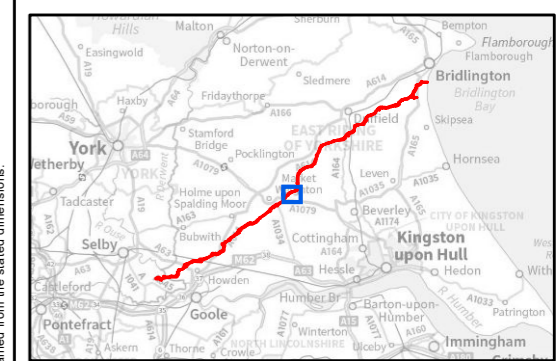
GIS: LC Checked: JW Approved: MW

PROJECT
Scotland England Green Link 2

KEY
Indicative Planning Application Boundary



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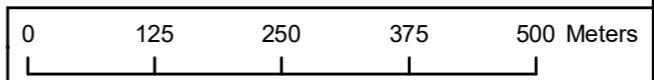


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**Figure 6-5
Bat Roost Potential Assessment**

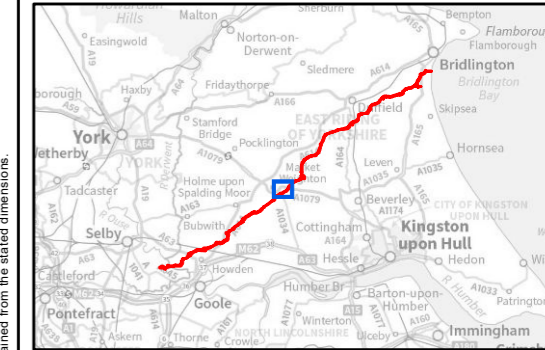
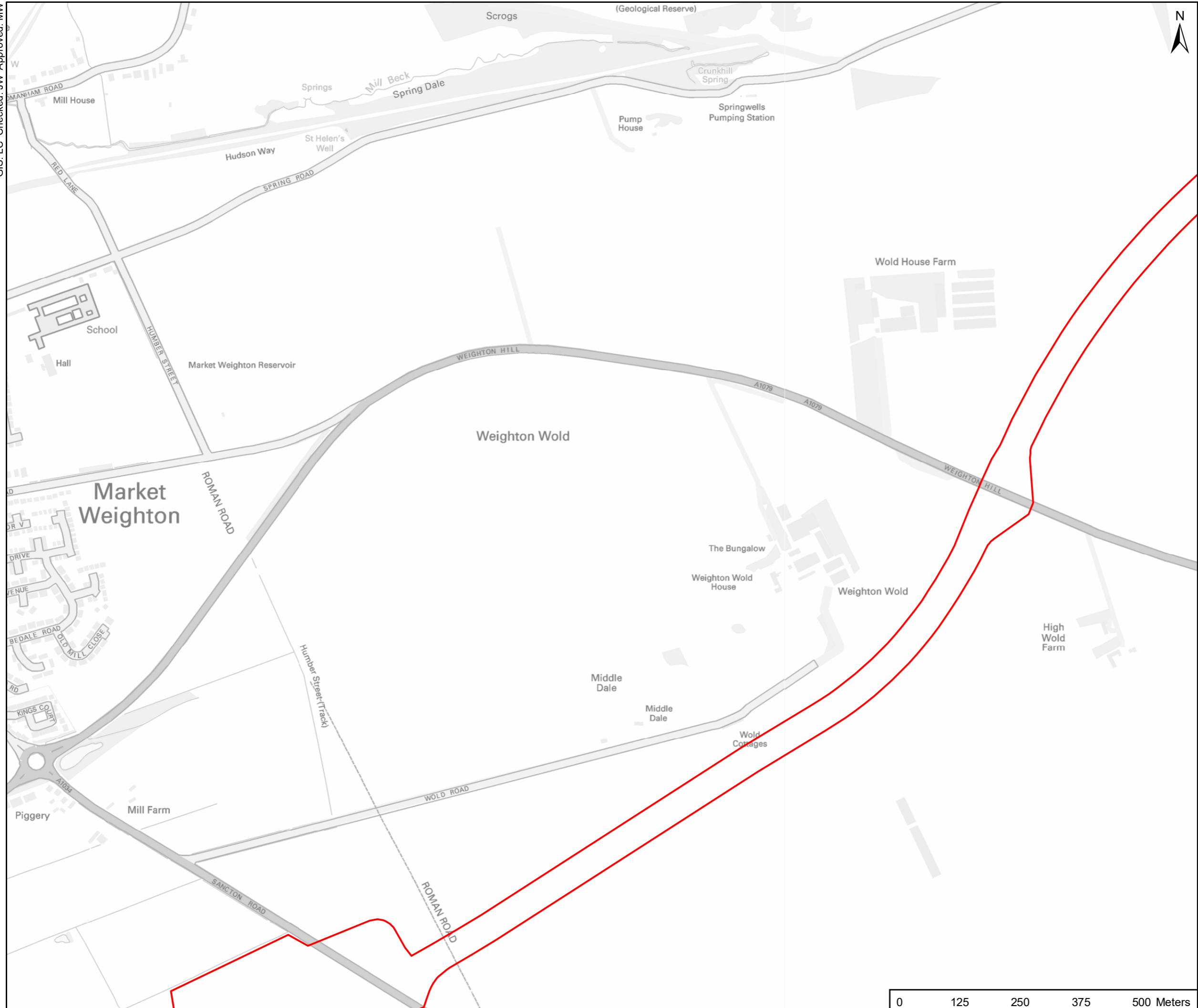
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SEGL2_T_GCN_6-5_v1_20220209

SHEET NUMBER
14 of 26

DATE
09/02/2022



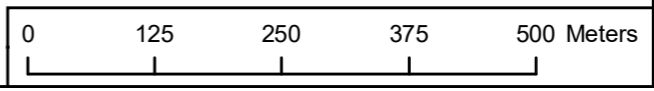
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TITLE
Figure 6-5
Bat Roost Potential Assessment

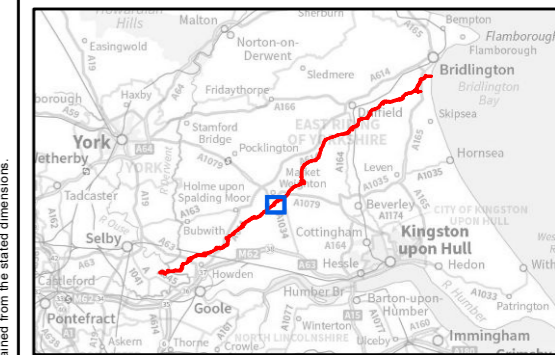
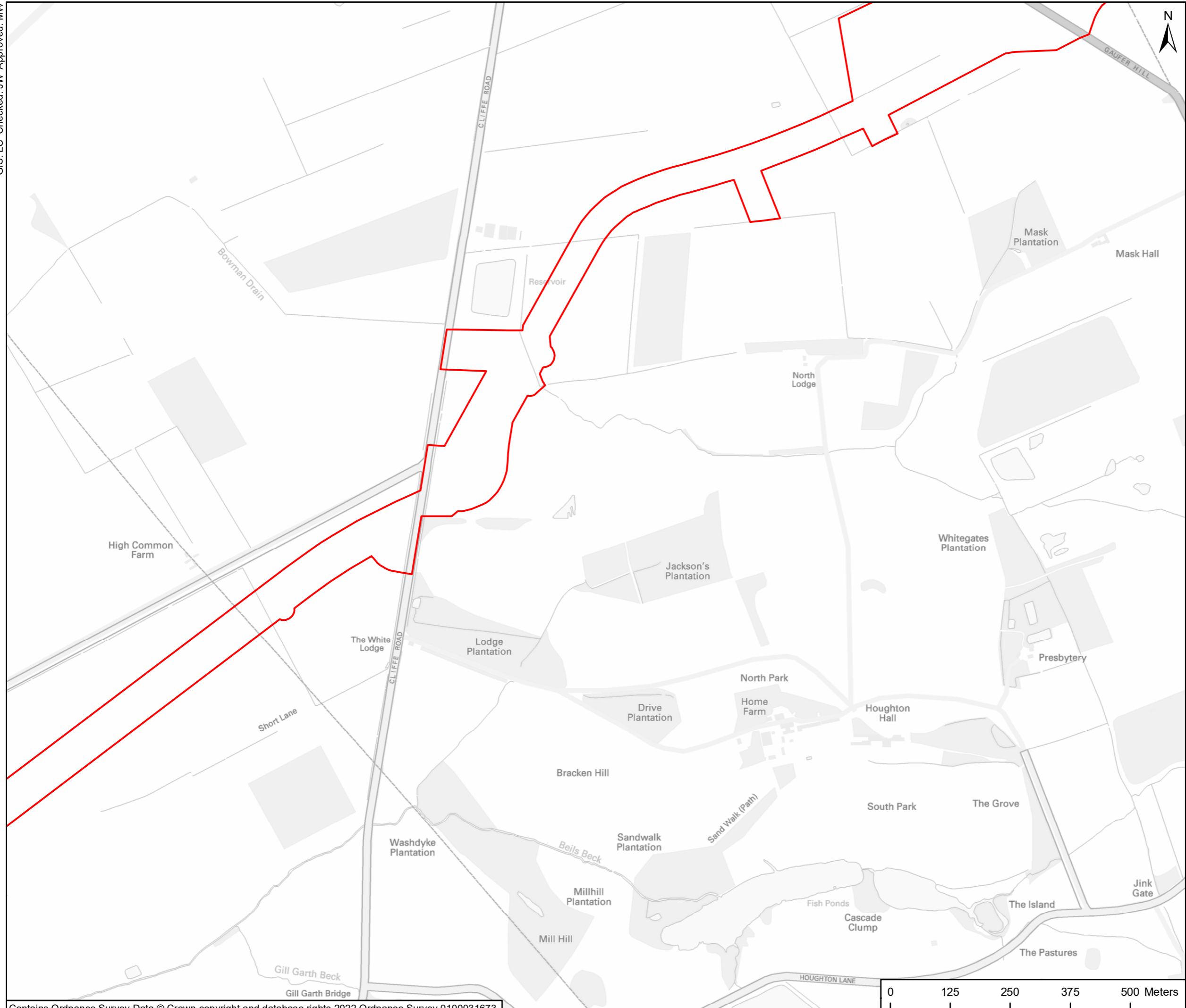
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SHEET NUMBER 15 of 26 **DATE** 09/02/2022



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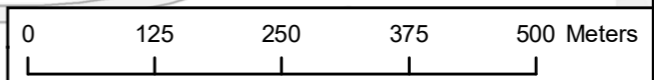
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TITLE
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Bat Roost Potential Assessment

REFERENCE
SEGL2_T_GCN_6-5_v1_20220209

SHEET NUMBER 16 of 26
DATE 09/02/2022

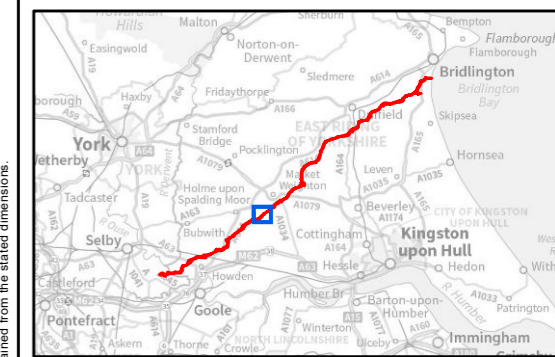


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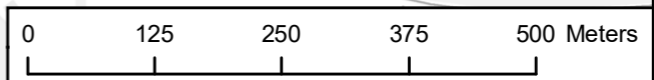
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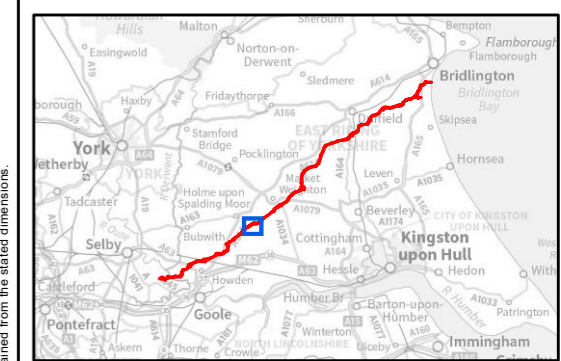
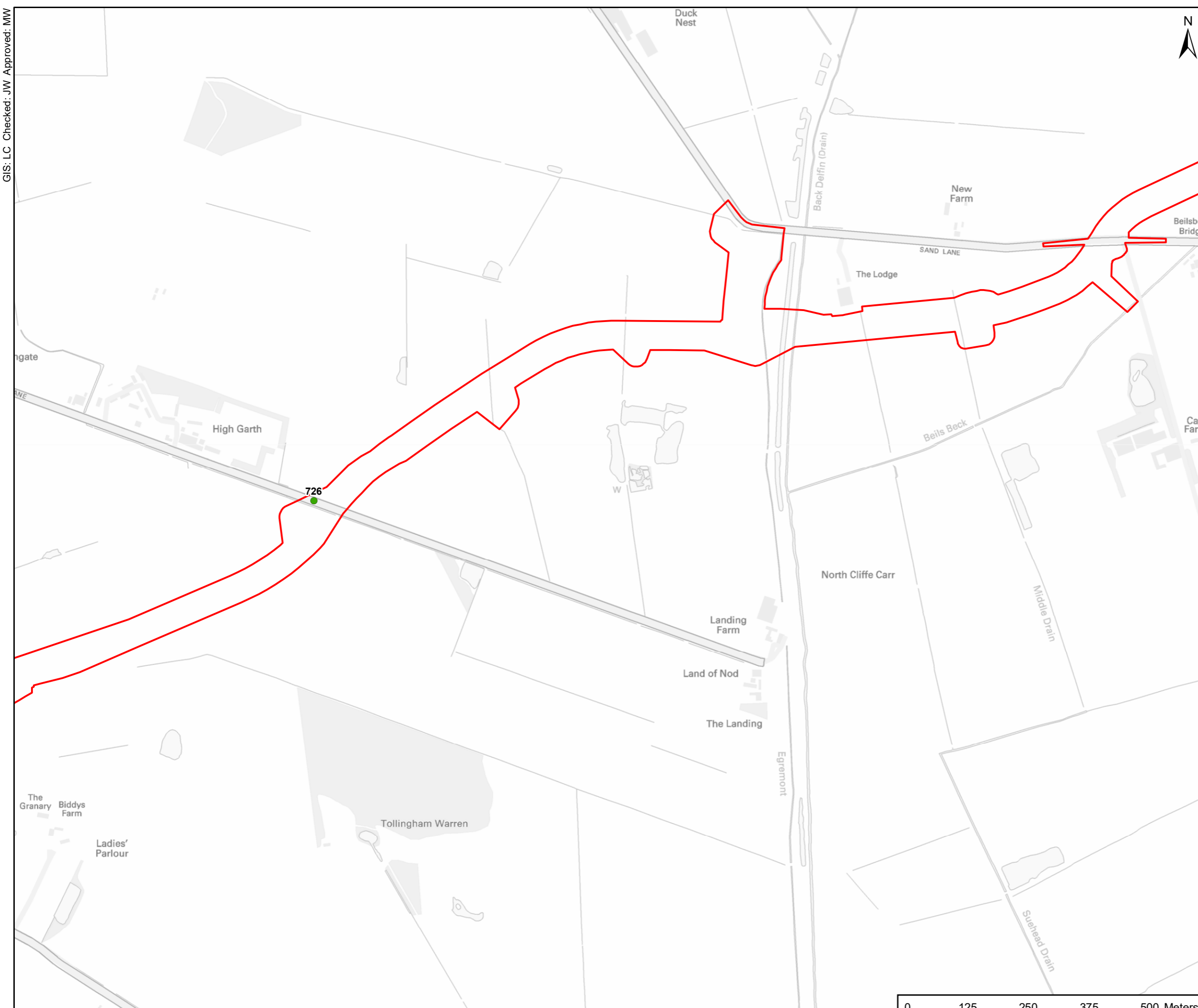
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Bat Roost Potential Assessment

REFERENCE
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SHEET NUMBER 17 of 26 **DATE** 09/02/2022



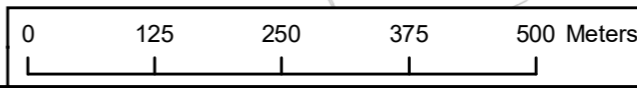
- KEY**
- Indicative Planning Application Boundary
 - Tree with Bat Roost Potential
 - Low



TITLE
Figure 6-5
Bat Roost Potential Assessment

REFERENCE
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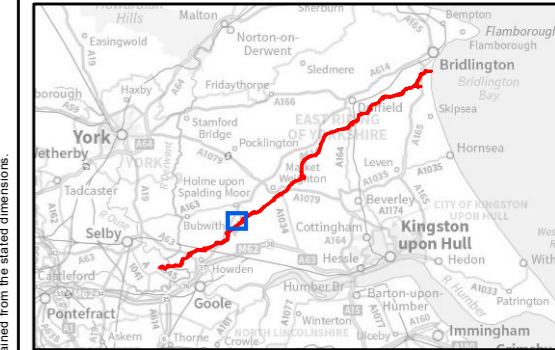
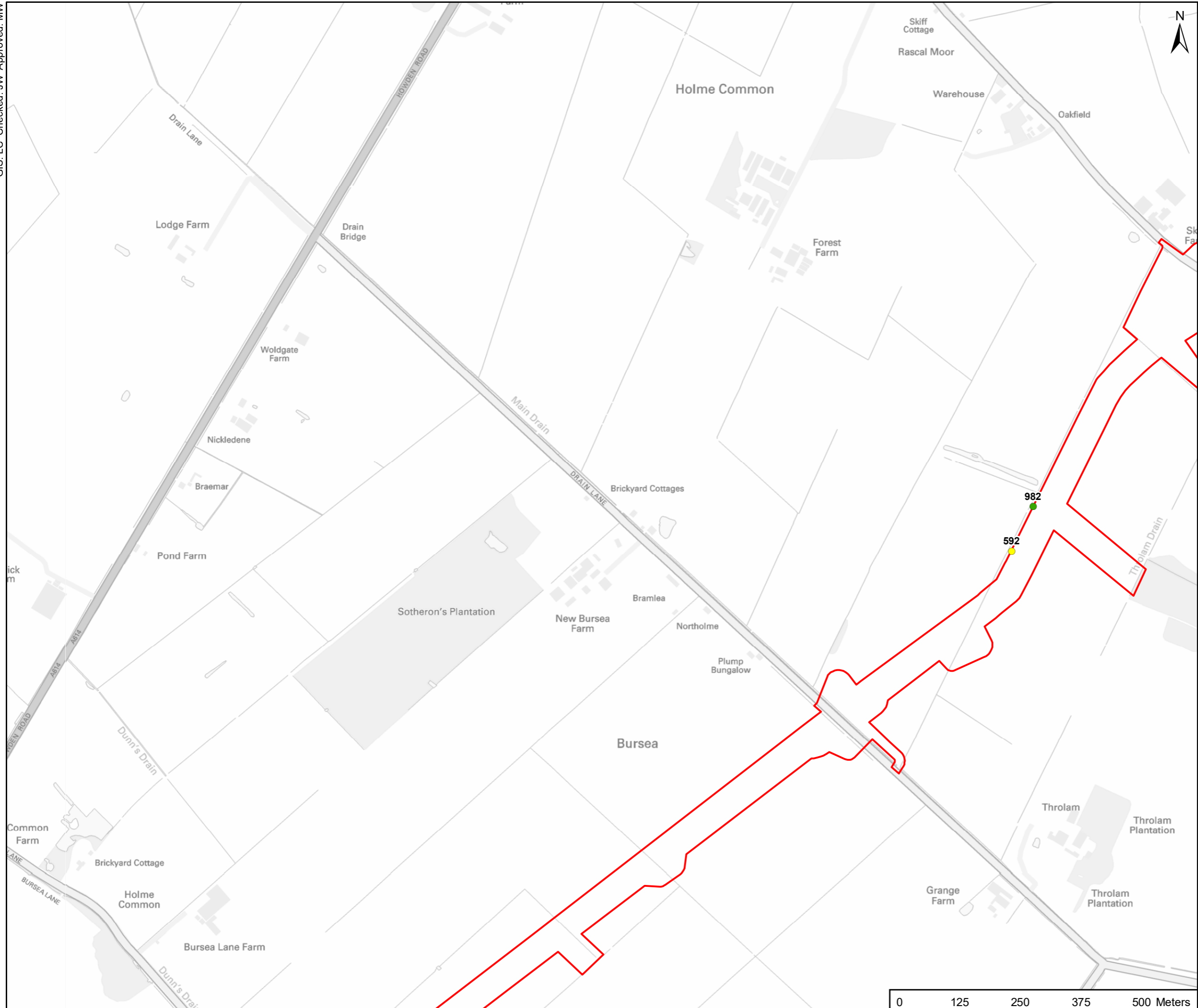
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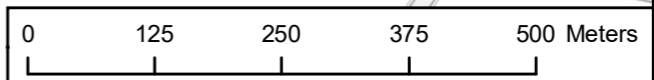
- KEY**
- Indicative Planning Application Boundary
 - Tree with Bat Roost Potential
 - Low
 - Moderate



TITLE
Figure 6-5
Bat Roost Potential Assessment

REFERENCE
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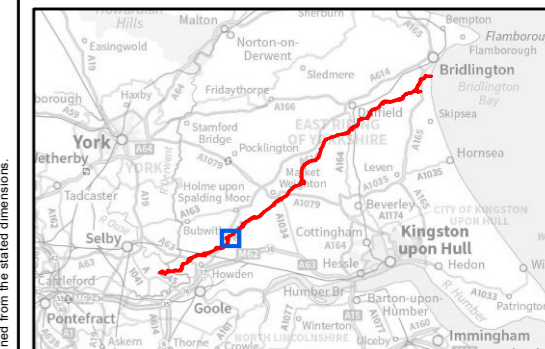
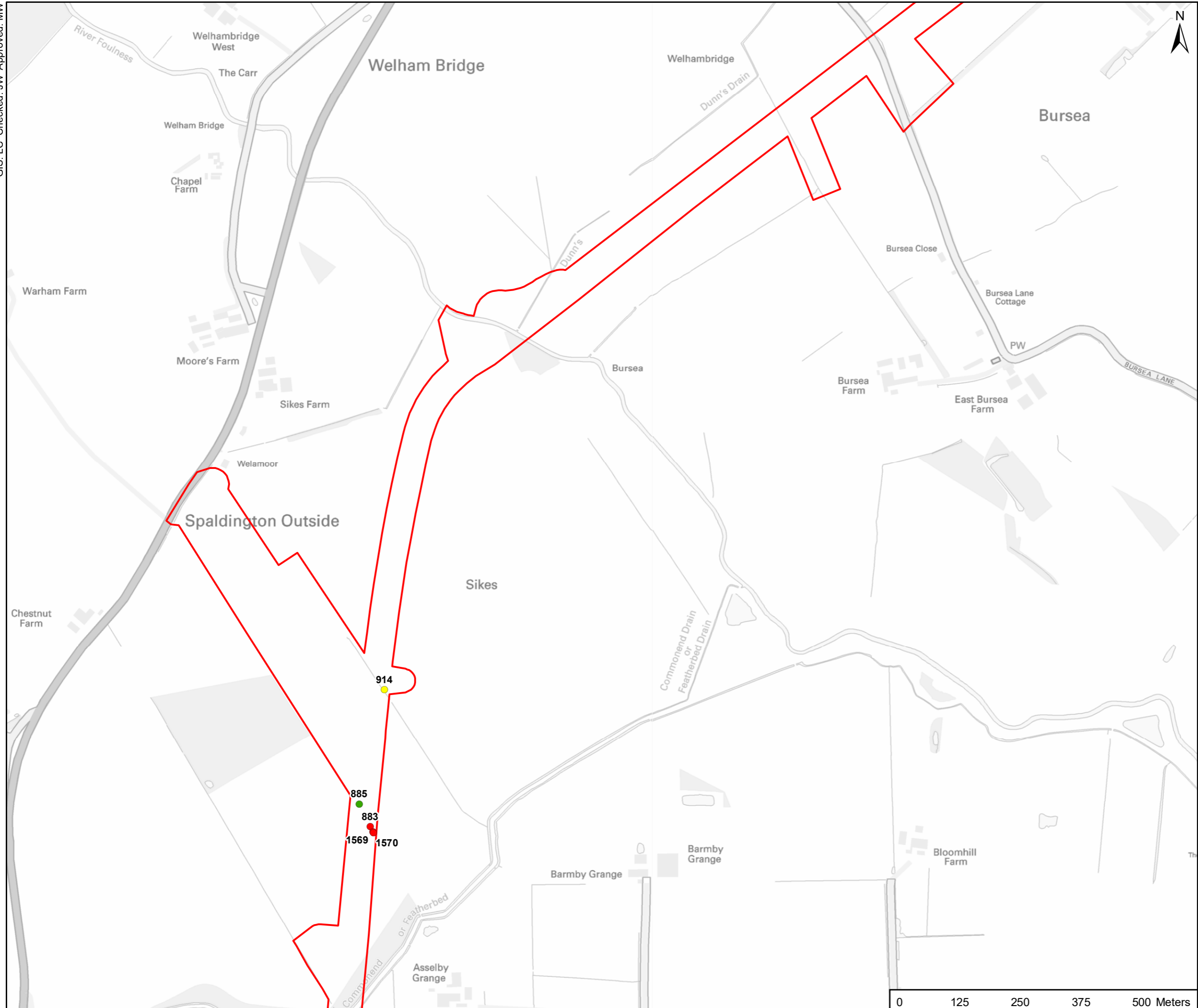
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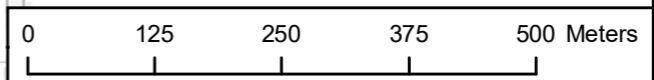
- KEY**
- Indicative Planning Application Boundary
 - Tree with Bat Roost Potential
 - Low
 - Moderate
 - High



TITLE
Figure 6-5
Bat Roost Potential Assessment

REFERENCE
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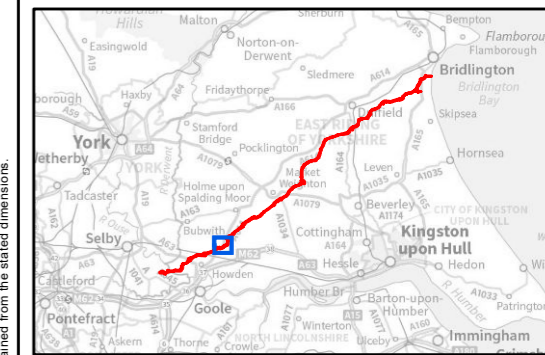
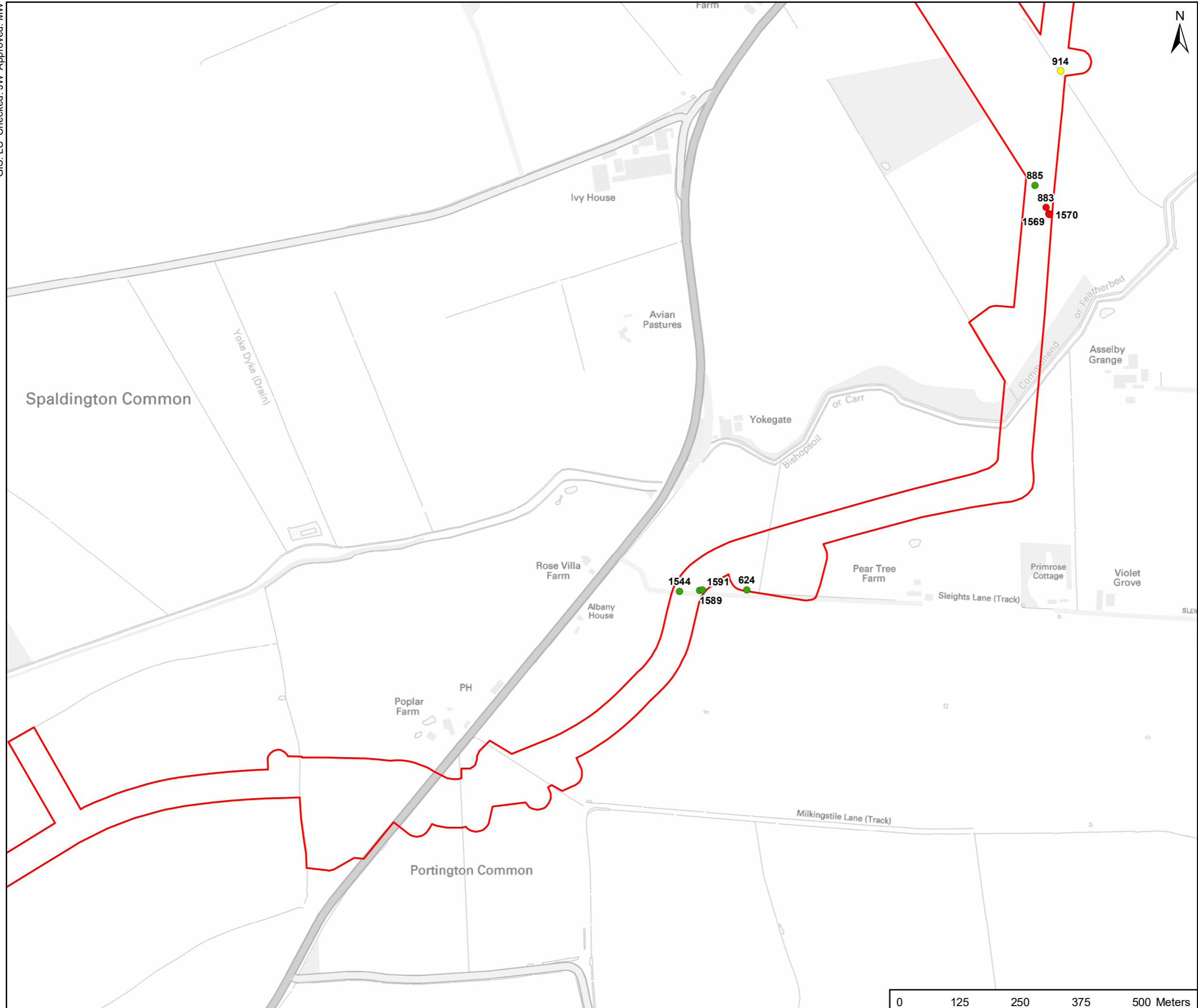
SHEET NUMBER 20 of 26 **DATE** 09/02/2022



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- KEY**
- Indicative Planning Application Boundary
 - Tree with Bat Roost Potential
 - Low
 - Moderate
 - High



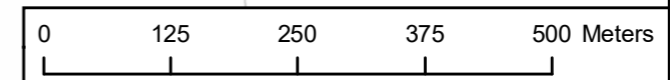
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Bat Roost Potential Assessment

REFERENCE
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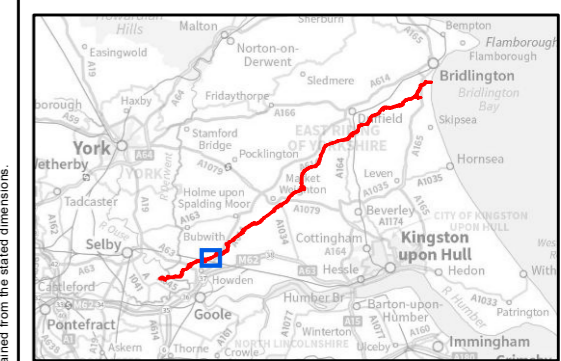
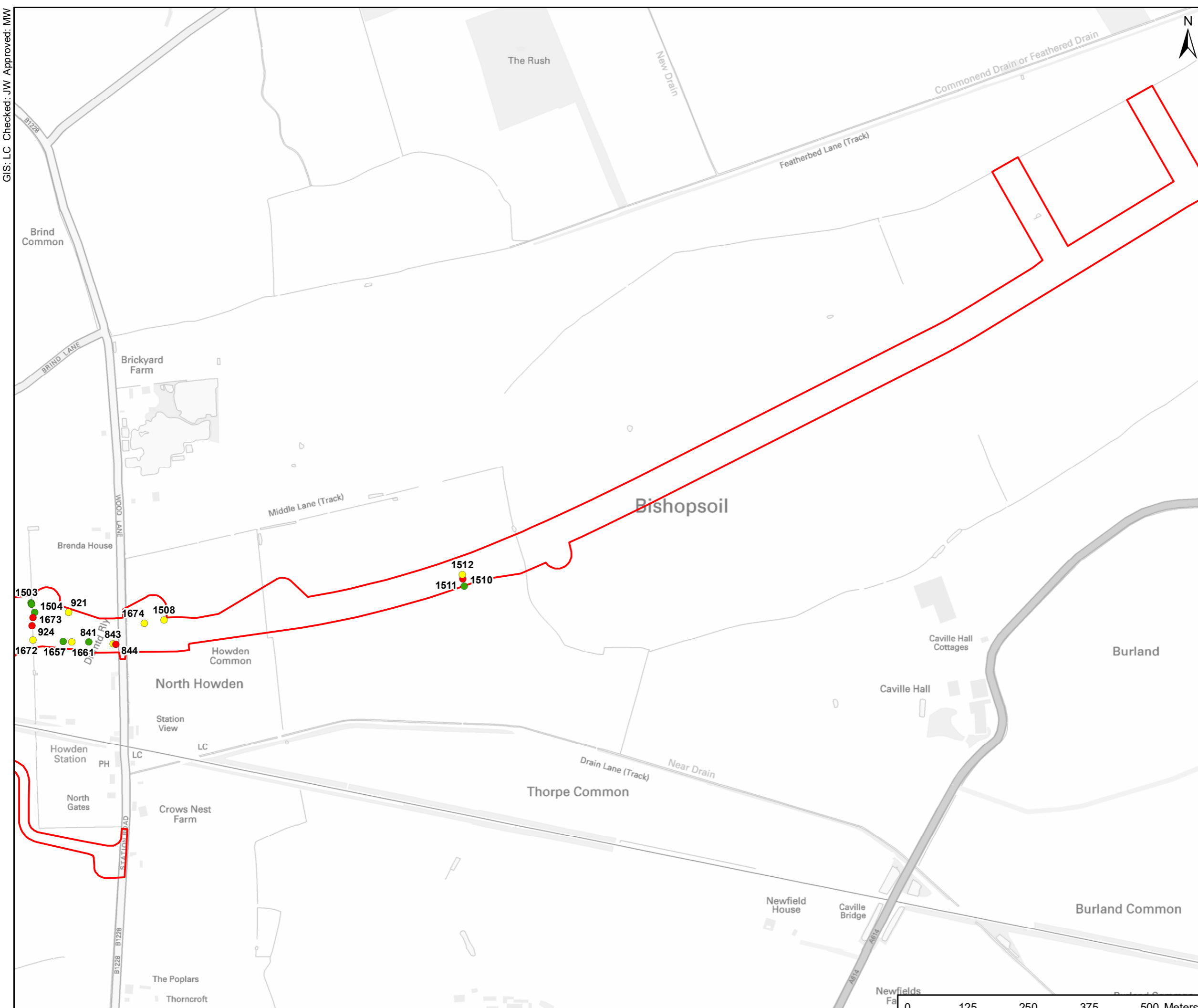
SHEET NUMBER 21 of 26
DATE 09/02/2022

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- KEY**
- Indicative Planning Application Boundary
 - Tree with Bat Roost Potential**
 - Low
 - Moderate
 - High



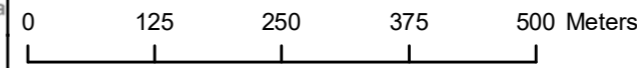
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Bat Roost Potential Assessment

REFERENCE
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SHEET NUMBER 22 of 26 **DATE** 09/02/2022

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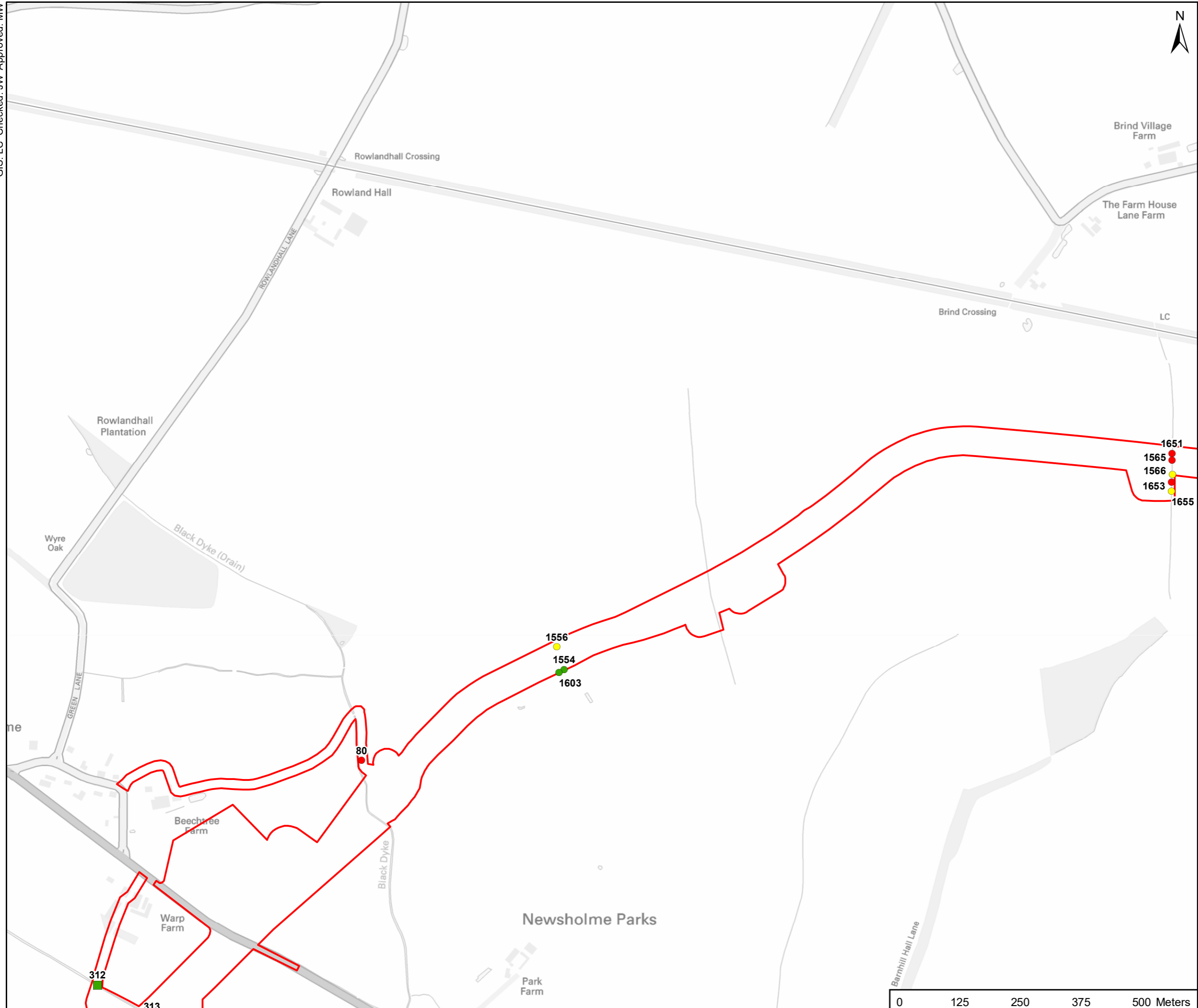
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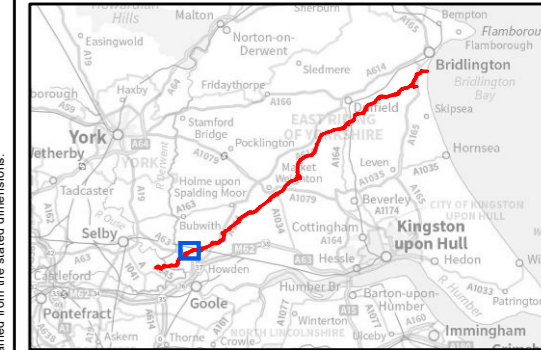
PROJECT
Scotland England Green Link 2

- KEY**
- Indicative Planning Application Boundary
 - Tree with Bat Roost Potential
 - Low
 - Moderate
 - High
 - Structure with Bat Roost Potential
 - Low

GIS: LC Checked: JW Approved: MW



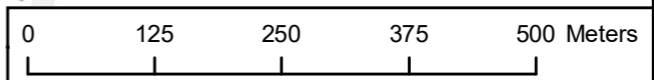
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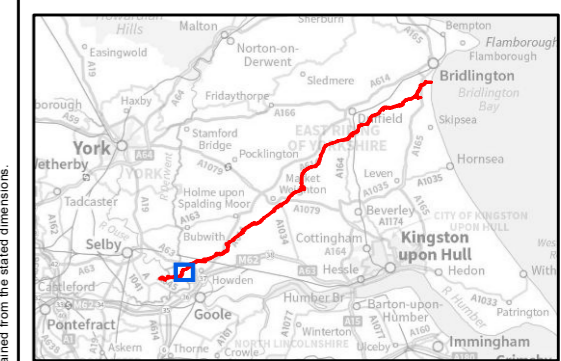
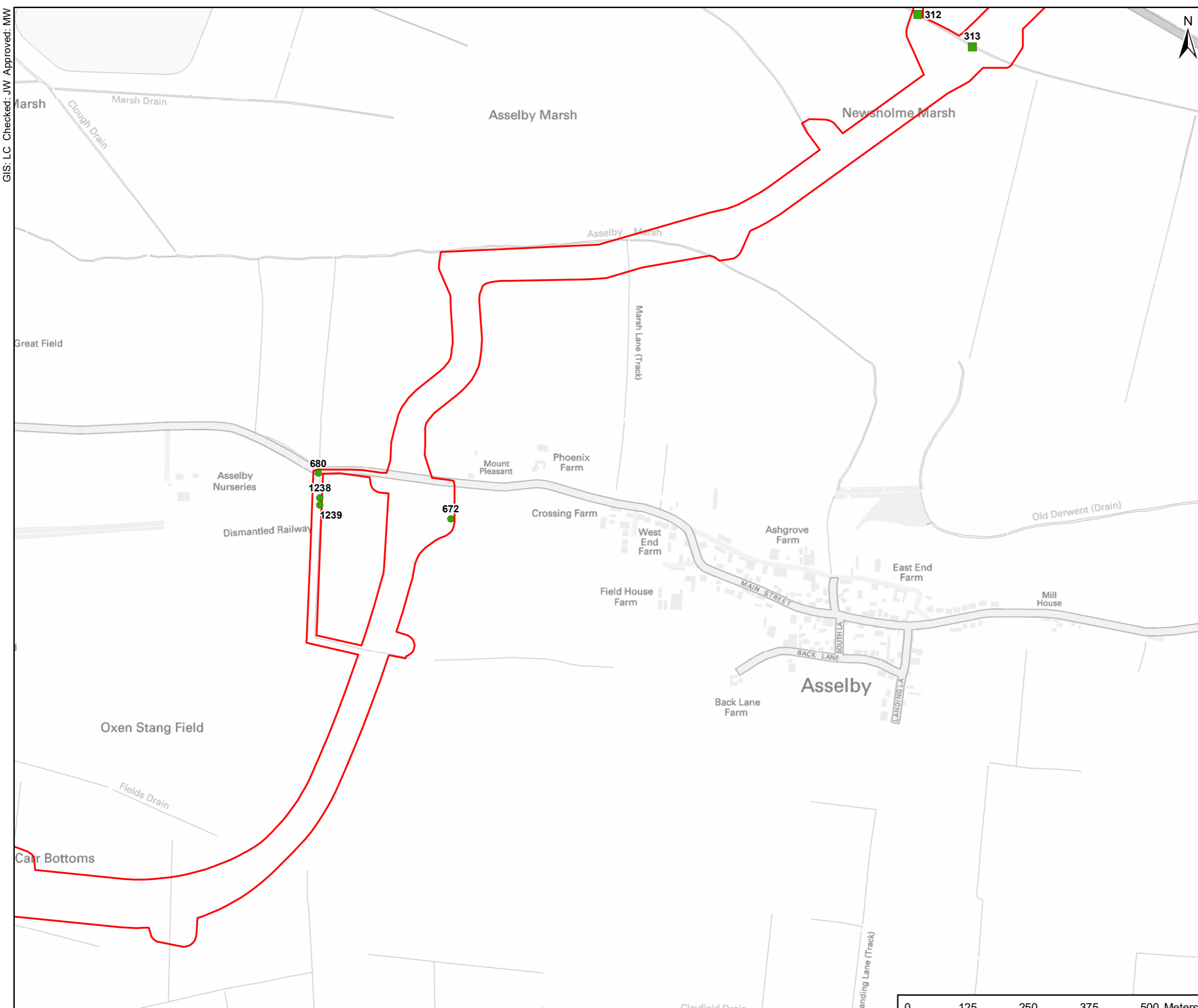
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Bat Roost Potential Assessment

REFERENCE
SEGL2_T_GCN_6-5_v1_20220209

SHEET NUMBER 23 of 26 **DATE** 09/02/2022



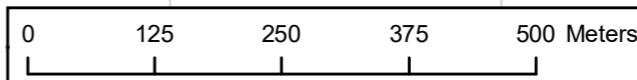
- KEY**
- Indicative Planning Application Boundary
 - Tree with Bat Roost Potential
 - Low
 - Structure with Bat Roost Potential
 - Low



TITLE
Figure 6-5
Bat Roost Potential Assessment

REFERENCE
SEGL2_T_GCN_6-5_v1_20220209

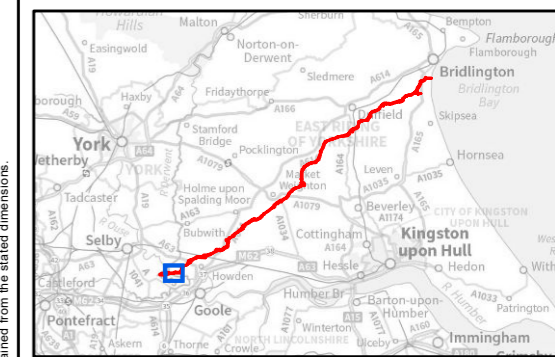
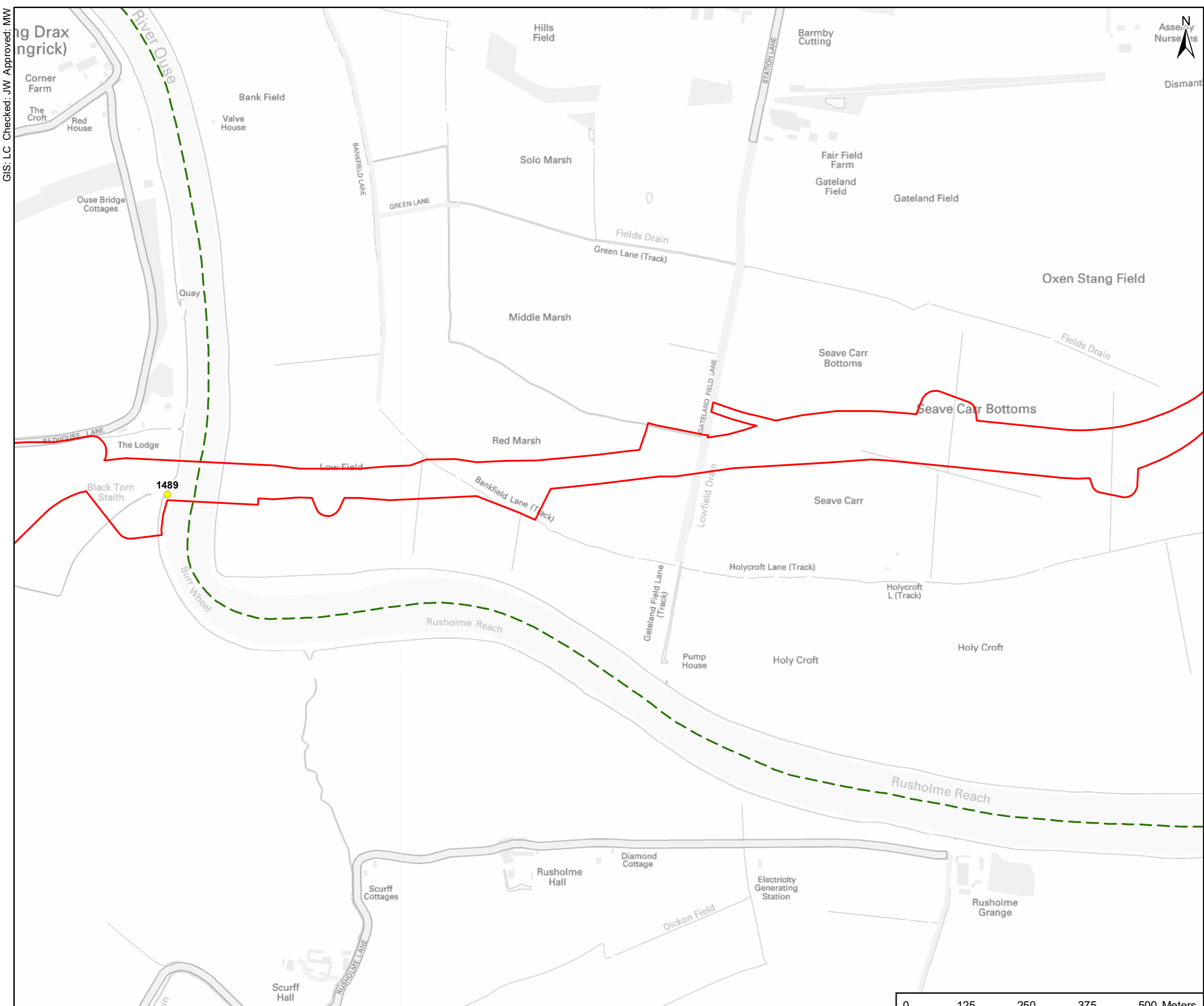
SHEET NUMBER 24 of 26
DATE 09/02/2022



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- KEY
- Indicative Planning Application Boundary
 - District Borough Unitary Boundary
 - Tree with Bat Roost Potential
 - Moderate

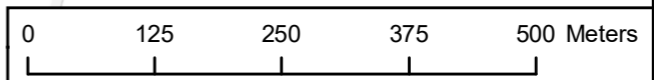


TITLE
**Figure 6-5
Bat Roost Potential Assessment**

REFERENCE
SEGL2_T_GCN_6-5_v1_20220209

SHEET NUMBER 25 of 26 DATE 09/02/2022

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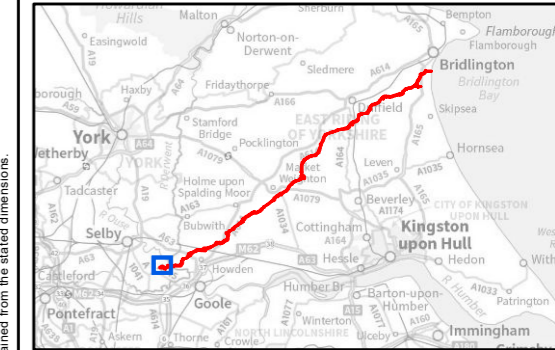
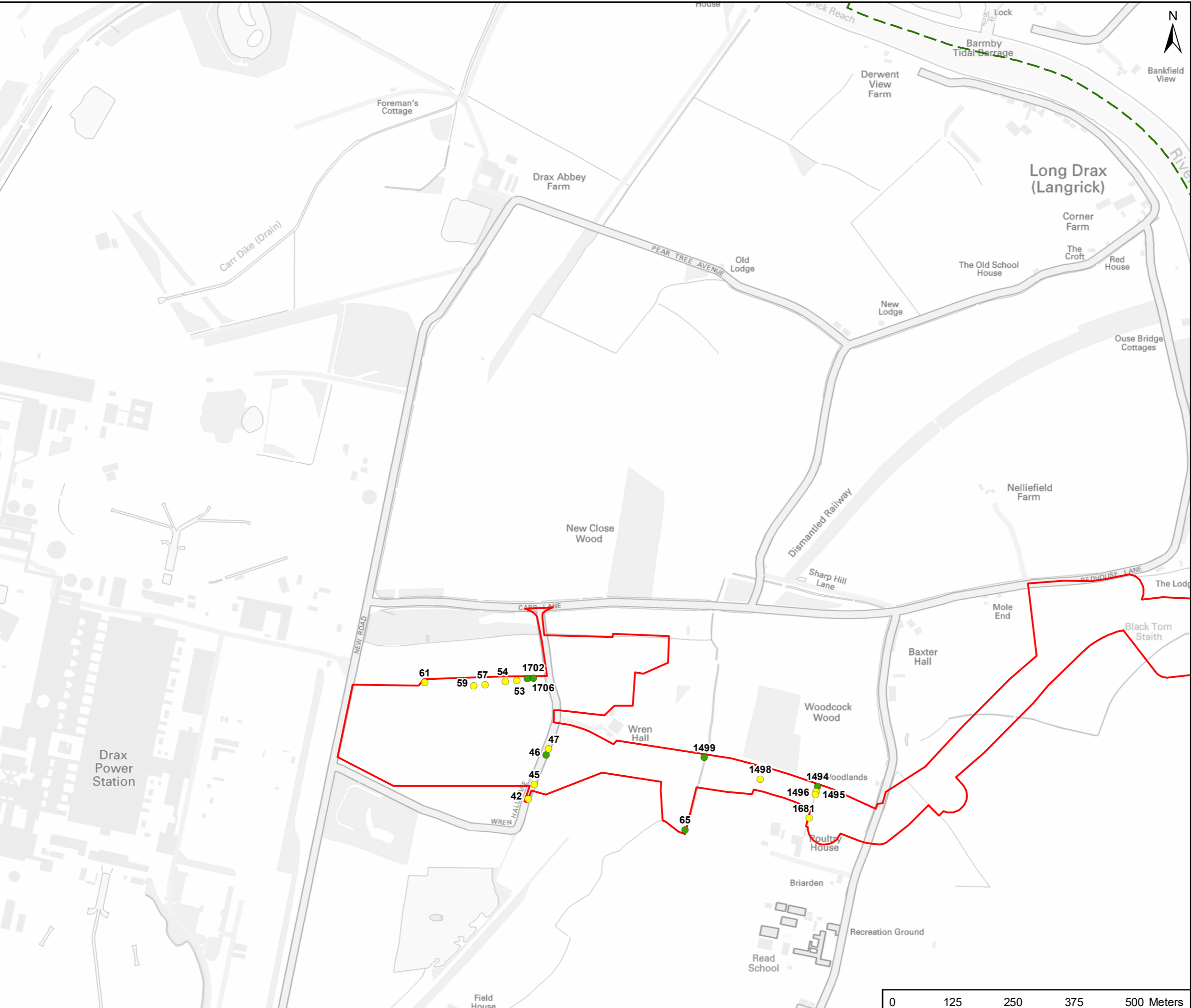


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PROJECT
Scotland England Green Link 2

- KEY**
- Indicative Planning Application Boundary
 - District Borough Unitary Boundary
- Tree with Bat Roost Potential**
- Low
 - Moderate

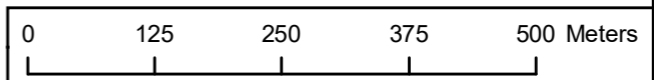
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TITLE
Figure 6-5
Bat Roost Potential Assessment

REFERENCE
SEGL2_T_GCN_6-5_v1_20220209

SHEET NUMBER 26 of 26
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Annex 1 - Legislation and Planning Policy

Relevant Legislation

The UK is no longer a member of the European Union (EU). EU legislation as it applied to the UK on 31 December 2020 is now a part of UK domestic legislation. EU legislation which applied directly or indirectly to the UK before 11.00 p.m. on 31 December 2020 has been retained in UK law as a form of domestic legislation known as 'retained EU legislation'.

The Secretary of State for the Environment, Food and Rural Affairs and Welsh Ministers have made changes to parts of the *Conservation of Habitats and Species Regulations 2017* (referred to as the 2017 Regulations) so that they operate effectively. Most of these changes involve transferring functions from the European Commission to the appropriate authorities in England. All other processes or terms in the 2017 Regulations remain unchanged and existing guidance is still relevant.

The decline in bat species conservation status across Europe has led to their listing on Annex IV ('European Protected Species') of the Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora, adopted in 1992. The Habitats Directive is transposed into English Law through the *Conservation of Habitats and Species Regulations 2017* (as amended) (henceforth referred to as the 'Habitats Regulations'). Schedule 2 of the Habitats Regulations lists the European Protected Species of animals, including bat species.

Bats are protected under Regulation 43 of the 2017 Regulations as amended by the 2019 Regulations. This makes it an offence to deliberately capture, injure or kill an animal; deliberately disturb an animal; or damage or destroy a breeding site or resting place used by an animal.

Deliberate capture or killing is taken to include "accepting the possibility" of such capture or killing. Deliberate disturbance of animals includes in particular any disturbance which is likely a) to impair their ability (i) to survive, to breed or reproduce, or to rear or nurture their young, or (ii) in the case of animals of hibernating or migratory species, to hibernate or migrate; or b) to affect significantly the local distribution or abundance of the species to which they belong.

Where development works are at risk of causing one or more of the offences listed above, a mitigation licence from Natural England can be obtained to facilitate the works that would otherwise be illegal.

Bats are also protected under Schedule 5 of the *Wildlife and Countryside Act 1981* (as amended). This makes it an offence to intentionally or recklessly obstruct access to any structure or place used for shelter or protection or disturb an animal in such a place.

Lower levels of disturbance not covered by the *Conservation of Habitats and Species Regulations 2017* remain an offence under the *Wildlife and Countryside Act 1981* although a defence is available where such actions are the incidental result of a lawful activity that could not reasonably be avoided.

NERC Act, 2006

The Natural Environment and Rural Communities (NERC) Act (2006), as amended, put an obligation on public bodies to have regard, so far as is consistent with the proper exercise of their functions, to the purpose of conserving biodiversity. Under the terms of the Act, conserving biodiversity includes restoring or enhancing populations and/or habitats. The local planning authority (LPA) or other determining authority must therefore consider the effects of planning applications upon biodiversity and how it can be mitigated for or enhanced.

A list of species and habitats 'of principal importance for the purpose of conserving biodiversity' is published under Section 41 of the NERC Act (2006). The list which includes 56 habitats and 943 species has been drawn up in consultation with Natural England and draws upon the previous UK Biodiversity Action Plan (BAP) List of Priority Species and Habitats which is now obsolete. Bat species are listed as priority species on the NERC Act, 2006

Planning Policy

The revised National Planning Policy Framework (NPPF) (Ref 10) published on 21st July 2021 sets out the government's planning policies for nature conservation in England and how these are expected to be applied. This revised Framework replaces the previous NPPF published in July 2018.

The NPPF states the commitment of the UK Government to minimising impacts on biodiversity and providing net gains in biodiversity where possible, contributing to the Government's commitment to halt the overall decline in biodiversity. It specifies the obligations that the Local Authorities and the UK Government have regarding statutory designated sites and protected species under UK and international legislation and how this is to be delivered in the planning system. Protected or notable habitats and species can be a material consideration in planning decisions and may therefore make some sites unsuitable for particular types of development, or if development is permitted, mitigation measures may be required to avoid or minimise impacts on certain habitats and species, or where impact is unavoidable, compensation may be required.

Local Biodiversity Action Plan (LBAP)

The East Riding of Yorkshire Biodiversity Action Plan (Ref 3) is a group of documents drafted by the East Riding of Yorkshire Biodiversity Partnership, who are responsible for drafting habitat and species action plans and ensuring biodiversity targets are met and specific conservation objectives are achieved with respect to these taxa. Common pipistrelle *Pipistrellus pipistrellus* and Natterer's bat *Myotis nattereri* are listed as local priority species and an action plan has been in place for these species since 2010.

Selby Biodiversity Action Plan (Ref 4) was drafted in 2004 by North Yorkshire County Council, Selby District Council and the Selby BAP Partnership and details a species action plan for bat species as a group, which are all listed as priority species in the area. The action plan has the objective of "increasing populations and the geographical range of all eight species (Common pipistrelle *Pipistrellus pipistrellus*, Soprano pipistrelle *Pipistrellus pygmaeus*, Noctule *Nyctalus noctula*, Daubenton's *Myotis daubentonii*, Whiskered *Myotis mystacinus*, Brandt's *Myotis brandtii*, Natterer's *Myotis nattererii*, and Brown long-eared *Plecotus auratus*)" (Ref 4) and a target of maintaining the current distribution of all bat species.

Annex 2 - Additional methodology and grading criteria

TABLE A1: SURVEY METHODOLOGY FOR UNDERTAKING AN ASSESSMENT OF BAT ROOSTING POTENTIAL OF BUILDINGS/ STRUCTURES & TREES (BASED ON COLLINS, 2016)

BUILDINGS/ STRUCTURES

Bats utilise many different features in buildings and other structures for places of shelter and roosting. Features that were observed, noted and graded (in accordance with criteria in Table A2) during the external and internal survey of buildings included:

External

- external features associated with structures were visually inspected for their suitability for use by roosting bats. Equipment including close focusing binoculars and powerful spot-lamps were used to study the walls, eaves and roofs of the buildings. Inspection mirrors and endoscopes were used as required.
- any of the bat species present in the area would be able to enter a roosting cavity through a gap no larger than 20mm wide. However, bats usually also require an area to land that is adjacent to the entrance hole and has a rough surface. Such features were sought during the inspection.
- features include; gaps in ridge tiles (where mortar is missing) gaps under roof tiles or slates, lead flashing around chimney stacks and around dormer windows, gaps under the fascias and soffits, weatherboarding, missing mortar from joints in stone/ brickwork, roof valleys and hips.
- special attention was paid to the areas directly below any potential access/ egress point in an attempt to identify any accumulation of bat droppings.
- no work involving scaffolding, multi-sectional ladders over 3 m in height or rope access work was undertaken as part of the external survey.

Internal

- the most effective method of determining the presence of bat activity within a building is by the presence of their droppings. Bats deposit droppings in both roost and social areas, but the use of such sites by bats can change due to prevailing weather conditions or the time of year.
- the internal inspection comprised surveying all surfaces window ledges, rough wall surfaces, floors, cobwebs, cupboard tops and any relatively undisturbed surface.
- areas of particular interest (but not restricted to) are the tops of gable end walls, top of the ridge beam, hip and other roof beams, mortise joints, junction of roof beams, areas around chimney breasts, between roof tiles and felting.
- other features, such as accumulations of discarded wings of moths or butterflies were also recorded where present. Certain bat species are more likely than others to deal with prey items and leave evidence such as this, and so such features can help identify the species present. Similarly, the locations of the droppings were recorded as this can provide an indication of both the species and the type of roost that is present.

TREES

Bats will utilise a wide variety of tree features including the following:

- frost cracks, trunk and branch splits, woodpecker holes,
- rot holes where branches have been removed
- hollow sections of trunk, branches and roots
- areas beneath loose bark, cavities beneath old root buttresses and coppice stools
- gaps within dense epicormic growth, areas behind dense ivy

These features on each tree were assessed by an ecologist from ground level using binoculars and a high powered torch in order to determine features with the potential to support bats in accordance with criteria in Table A2.

TABLE A2: CRITERIA USED TO DEFINE THE BAT ROOST POTENTIAL OF FEATURES (BASED ON COLLINS, 2016)			
Where possible, the level of Bat Roost Potential (BRP) should be defined with reference to the likely type of roost(s) associated with the relevant feature. Where this is not known then an overall (worst case) level of BRP for the feature is assigned.			
Level of Bat Roost Potential	Type of Roost		
	Summer of transitional roost used by non-breeding bats	Maternity Roost	Hibernation Roost
Confirmed roost	Presence of bats or evidence of bats (droppings, dead bats). Confirmation of roost status may require further survey.		
High	Feature with multiple roosting opportunities for one or more species of bat. With good connectivity to high quality foraging habitat.	Feature with multiple roosting opportunities for breeding bats (size, temperature). Suitable of supporting larger numbers of bats on a more regular basis. With proximity and connectivity to high quality foraging habitat.	Large site that offers cool stable conditions with multiple roosting opportunities. With proximity and connectivity to high quality foraging habitat.
Moderate	Feature with some roosting opportunities. With connectivity to moderate or high quality foraging habitat.	Feature providing some roosting opportunities. With some connectivity and proximity to moderate or high quality foraging habitat.	Medium sized feature with some roosting opportunities. With some connectivity and proximity to moderate or high quality foraging habitat.
Low	Feature with a limited number of roosting opportunities. With poor connectivity to foraging habitat.	Feature with a limited number of roosting opportunities for breeding bats. With low proximity and connectivity to low or moderate quality foraging habitat.	Small sized feature or feature which may be subject to disturbance or environmental variations, with a limited number of roosting opportunities. With poor connectivity to foraging habitat.
Negligible	Feature with no or very limited roosting opportunities for bats or where the feature is isolated from foraging habitat.	Feature with no suitable roosting opportunities for breeding bats.	Feature with no suitable roosting opportunities for hibernating bats.

Table A3: Scoring system for valuing commuting and foraging bats (Ref 9)

Geographic frame of reference	Score
International i.e. European	>50
National i.e. England	41 - 50
County/ Regional i.e. Yorkshire and Humber / North Yorkshire	31 – 40
District i.e. Selby District	21 - 30
Local i.e. Survey Area and up to 2 km radius	11 - 20
Negligible i.e. used where value is less than local	1 - 10

Table A4: Valuing bat commuting routes (Ref 9)

National Rarity	BAI (see Section 6.3.2.4)	Roosts/Potential roosts nearby	Foraging and commuting habitat characteristics
Common (2)	Low BIA >0 but <6 (5)	None (1)	Industrial or other site without established vegetation (1) Absence of (other) linear features (1)
-	-	Small number (3)	Suburban areas or intensive arable land Un-vegetated fences and large field sizes (2)
Rarer (5)	Moderate BAI >=6 but <60 (10)	Moderate number/Not known (4)	Isolated woodland patches, less intensive arable and/ or small towns/ villages Walls, gappy or flailed hedgerows, isolated well grown hedgerows, and moderate field sizes (3)
-	-	Large number of roosts, or close to a SSSI for the species (5)	Larger or connected woodland blocks, mixed agriculture, and small villages/ hamlets Well-grown and well-connected hedgerows, small field sizes (4)
Rarest (20)	High BAI >=60 (20)	Close to or within a SAC for the species (20)	Mosaic of pasture, woodlands and wetland areas Complex network of mature well-established hedgerows, small fields and rivers/streams (5)

Table A5: Explanation of 'National Rarity' categories in Table Above

Rarity within Range	England	Wales	Scotland	Northern Ireland
Common (population over 100,000)	Common Pipistrelle Bat (<i>Pipistrellus pipistrellus</i>), Soprano Pipistrelle Bat (<i>Pipistrellus pygmaeus</i>), Brown Long-eared Bat (<i>Plecotus auritus</i>)	Common Pipistrelle Bat, Soprano Pipistrelle Bat	Common Pipistrelle Bat, Soprano Pipistrelle Bat	Common Pipistrelle Bat, Soprano Pipistrelle Bat
Rarer (population 10,000-100,000)	Lesser Horseshoe Bat (<i>Rhinolophus hipposideros</i>), Whiskered Bat (<i>Myotis mystacinus</i>), Brandt's Bat (<i>Myotis brandtii</i>), Daubenton's Bat (<i>Myotis daubentonii</i>), Natterer's Bat (<i>Myotis nattereri</i>),	Lesser Horseshoe Bat, Daubenton's Bat, Natterer's Bat, Brown Long-eared Bat	Daubenton's Bat, Natterer's Bat, Brown Long-eared Bat	Daubenton's Bat, Natterer's Bat, Leisler's Bat, Nathusius' Pipistrelle Bat, Brown Long-eared Bat

Rarity within Range	England	Wales	Scotland	Northern Ireland
	Leisler's Bat (<i>Nyctalus leisleri</i>), Noctule Bat (<i>Nyctalus noctula</i>), Nathusius' Pipistrelle Bat (<i>Pipistrellus nathusii</i>), Serotine Bat (<i>Eptesicus serotinus</i>)			
Rarest (population under 10,000)	Greater Horseshoe Bat (<i>Rhinolophus ferrumequinum</i>), Bechstein's Bat (<i>Myotis bechsteini</i>), Alcathoe Bat (<i>Myotis alcathoe</i>), Barbastelle Bat (<i>Barbastelle barbastellus</i>), Grey Long-eared Bat (<i>Plecotus austriacus</i>)	Greater Horseshoe Bat, Whiskered Bat, Brandt's Bat, Bechstein's Bat, Alcathoe Bat, Noctule Bat, Nathusius' Pipistrelle Bat, Serotine Bat, Barbastelle Bat	Whiskered Bat, Brandt's Bat, Alcathoe Bat, Noctule Bat, Nathusius' Pipistrelle Bat, Leisler's Bat	Whiskered Bat
*Vagrant species and occasional visitors	Greater Mouse-eared Bat (<i>Myotis myotis</i>), Parti-coloured Bat (<i>Vespertilio murinus</i>), Kuhl's Pipistrelle Bat (<i>Pipistrellus kuhlii</i>), Savi's Pipistrelle Bat (<i>Hypsugo savii</i>), Pond Bat (<i>Myotis dasycneme</i>), Notch-eared Bat (<i>Myotis emarginatus</i>), Northern Bat (<i>Eptesicus nilssoni</i>)			

Annex 3 - Bat Roost Potential Survey Data

Table B1: Results of Bat Roost Potential Surveys of Trees and Structures (see Figure 4)				
Reference	Species	Description and Features of BRP	Location	BRP rating
Trees				
42	Oak	Mature oak tree with dense ivy cover and split limbs moderate potential	Within planning application boundary but outside of Working width (of cable route)	Moderate
45	Oak	Mature oak with dense ivy cover and knot holes, moderate bat potential in dense ivy and knot holes	Within planning application boundary but outside of Working width (of cable route)	Moderate
46	Oak	Mature oak with dense ivy	Within Working width (of cable route)	Low
47	Oak	Mature oak with dense ivy and splits in branches	Within planning application boundary but outside of Working width (of cable route)	Moderate
53	Oak	Semi mature oak. Split limbs and woodpecker holes	Within planning application boundary but outside of Working width (of cable route)	Moderate
54	Oak	Semi mature oak. Split limbs and bark	Within planning application boundary but outside of Working width (of cable route)	Moderate
57	Oak	Semi mature oak. 70cm dbh, 12m tall, bird box on trunk E face. Peeling bark on trunk and limbs, cracked bark at ground level S face, knot hole with cavity on secondary limb 4m up on NE face.	Within planning application boundary but outside of Working width (of cable route)	Moderate
59	Oak	Mature oak. 1m dbh, 13m tall, peeling bark on trunk, crack and damage to minor limb 7m up on S face. Bat roost potential in peeling bark on upper limbs	Within planning application boundary but outside of Working width (of cable route)	Moderate
61	Ash	Semi-mature ash. 50cm dbh, 10m tall, small hole S face at ground level, cavity in limb at 1m on SE face, broken lumb 6m up on NE face. Bat roost potential in woodpecker hole and split limb	Within planning application boundary but outside of Working width (of cable route)	Moderate
65	Oak	Split in limb	Within planning application boundary but outside of Working width (of cable route)	Low
592	Oak	Mature oak, 1.5m dbh with split in small limb on S face and lifted bark on north face.	Within planning application boundary but outside of Working width (of cable route)	Moderate
624			Within planning application boundary but outside of Working width (of cable route)	Low
672	Oak	Single oak on edge of arable field . Missing limb and areas of lifted bark. low potential	Within planning application boundary but outside of Working width (of cable route)	Low
680			Within pPlanning application boundary but outside of Working width (of cable route)	Low
717	Oak	Small oak. Ivy-clad.	Within Working width (of cable route)	Low

Table B1: Results of Bat Roost Potential Surveys of Trees and Structures (see Figure 4)				
Reference	Species	Description and Features of BRP	Location	BRP rating
Trees				
719	Ash	Small ash. Immediately adjacent to holly	Within Working width (of cable route)	Negligible
724	Oak	Small oak.	Within Working width (of cable route)	Negligible
725	Oak	Small oak.	Within Working width (of cable route)	Negligible
726	Oak	Mature oak. Cracking bark at one location.	Within Planning application boundary but outside of Working width (of cable route)	Low
739	Oak	Mature oak with dense ivy cladding, and lifting bark.	Within Working width (of cable route)	Moderate
740	Oak	Mature oak with dense ivy cladding, and lifting bark.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
741	Oak	Mature oak with dense ivy cladding, and lifting bark and cracked limb.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
820	Poplar	Roadside poplar sp. dbh approx 1.8m.	Within Working width (of cable route)Planning application boundary	Negligible
821	Oak	Small oak 1.2m dbh.	Within Working width (of cable route)	Negligible
822	Poplar	Roadside small poplar sp. dbh 1.5m.	Within Working width (of cable route)	Negligible
823	Unknown	Unknown	Within Working width (of cable route)	Negligible
824	Aspen	Small aspen, 1.2m dbh.	Within Working width (of cable route)	Negligible
825	Unknown	Unknown	Within Planning application boundary but outside of Working width (of cable route)	Negligible
839	Unknown	Unknown	Within Planning application boundary but outside of Working width (of cable route)	Negligible
841	Oak	70cm dbh, 10m high, crack at 4m south face in minor limb, 1m long. No other features.	Within Working width (of cable route)	Low
843	Oak	Semi mature oak, gnarled bark, broken limbs on north and south face pointing down, some minor cracks in bark all over.	Within Working width (of cable route)	Moderate
844	Unknown	Dead tree, 1m dbh, 7m high, with cavity on S face 50cm up, peeled bark on all sides of main trunk and minor limbs, broken limbs x 2 on east and north face.	Within Working width (of cable route)	High

Table B1: Results of Bat Roost Potential Surveys of Trees and Structures (see Figure 4)

Reference	Species	Description and Features of BRP	Location	BRP rating
Trees				
883	Oak	Mature oak, 1.2m dbh, 12m tall. Major limb damage on north aspect at 4m, large crack in limb and peeling bark on two separate limbs. Large cavity in main trunk on NE aspect with a smaller deeper cavity at top. Crack on secondary limb, east aspect 7m up.	Within Working width (of cable route)	High
885	Ash	Mature ash, 1m dbh, 8m tall. Main trunk of ash entirely hollow, with cracks in hollowed out trunk and opening on SW aspect. Open to elements. No other features on secondary regrowth limbs.	Within Working width (of cable route)	Low
914	Oak	Young oak with wound in branch 4/5 m high facing north-east.	Within Working width (of cable route)	Moderate
921	Oak	Mature oak with knot hole 5m high facing south with moderate bat roost potential, hole looks to lead into hollow branch. bark missing from branch with exposed cracks.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
924	Willow sp.	Willow with large hollow and cracks in stem 3m high.	Within Working width (of cable route)	High
925	Oak	Mature oak with negligible features.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
939	Ash	Mature ash 1.6m dbh, cracked bark.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
952	Ash	ash 9m height, 0.55 dbh with stress cracks on stem 2-4m high on west and south aspect cavity goes deeper into stem. moderate brp. bird box on stem 2.5m high.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
953	Ash	Small ash 1.2m dbh hole at 1.2m.	Within Planning application boundary but outside of Working width (of cable route)	Low
954	Ash	ash 9m height, 0.4 dbh with wound on stem 1.5m high on south east aspect cant fully inspect. low brp as precautionary. dead branch previously photographed on tree has now fallen down.	Within Planning application boundary but outside of Working width (of cable route)	Low
955	Ash	Mature ash 2m dbh. 1 hole at 3m, rough bark.	Within Planning application boundary but outside of Working width (of cable route)	Low
956	Ash	ash 8m height, 0.35 dbh with dense ivy cladding on stem. low brp as precautionary	Within Planning application boundary but outside of Working width (of cable route)	Low
969	Ash	Ash 7m height, 0.4 dbh with negligible brp	Within Planning application boundary but outside of Working width (of cable route)	Negligible

Table B1: Results of Bat Roost Potential Surveys of Trees and Structures (see Figure 4)				
Reference	Species	Description and Features of BRP	Location	BRP rating
Trees				
982	Oak	Mature oak dbh 2,2m missing limbs, cracked bark.	Within Planning application boundary but outside of Working width (of cable route)	Low
996	Oak	Mature oak dbh 2.2m.	Within Planning application boundary but outside of Working width (of cable route)	Low
997	Oak	Close to route, mature oak.	Within Working width (of cable route)	Low
1069	Hawthorn	Small Hawthorn	Within Working width (of cable route)	Negligible
1070	Hawthorn	Small Hawthorn	Within Working width (of cable route)	Negligible
1138	Ash	Semi-mature ash, ivy clad on one trunk, tree divided into 2 at 30cm, dbh c. 0.9 and 1.0m.	Within Planning application boundary but outside of Working width (of cable route)	Low
1139	Hawthorn	Mature hawthorn with hole at 2.4m.	Within Planning application boundary but outside of Working width (of cable route)	Low
1214	Unknown	N/A	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1237	Ash	Young ash with negligible BRP	Within Working width (of cable route)	Negligible
1238	Oak	Semi mature oak, 12m and 80cm dbh, some ivy cover, no visible features but precautionarily low BRP.	Within Planning application boundary but outside of Working width (of cable route)	Low
1239	Ash	Semi mature ash, 10m and 70cm dbh, dense ivy cover, no visible features but precautionarily low BRP.	Within Planning application boundary but outside of Working width (of cable route)	Low
1241	Willow sp.	Semi mature crack willow, no visible features.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1242	Hawthorn	Small Hawthorn	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1299	Unknown	Some flaking bark, 50cm dbh, 13m high.	Within Planning application boundary but outside of Working width (of cable route)	Low
1363	Ash	Semi mature ash, 70cm dbh 12m high. Two woodpecker holes on W face.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
1384	Unknown	50cm dbh, 10m tall, no brp.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1400	Ash	Mature ash with ivy cladding on stem.	Within Planning application boundary but outside of Working width (of cable route)	Low
1401	Ash	Mature dead ash with large cavities on stem 4-5m high and knothole 7-8m high. Gaps in bark 8-9m high.	Within Planning application boundary but outside of Working width (of cable route)	High

Table B1: Results of Bat Roost Potential Surveys of Trees and Structures (see Figure 4)				
Reference	Species	Description and Features of BRP	Location	BRP rating
Trees				
1483	Ash	Small ash, multi stemmed, 30cm dbh, 8m tall. Isolated with no bat potential.	Within Working width (of cable route)	Negligible
1484	Alder	Small alder, 30cm dbh, 7m tall, no features for bats.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1485	Ash	Small ash, 50cm dbh, 9m tall, no features for bats.	Within Working width (of cable route)	Negligible
1489	Willow	Growing low and hanging down into river. 70cm dbh, heavily split main and minor limbs to 2m from ground.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
1490	Ash	Multi stemmed semi mature ash, largest 60cm dbh, 10m high, no features for bats.	Within Working width (of cable route)	Negligible
1494	English oak	70cm dbh, 13m, some slight cracks on west face and low ivy cover.	Within Planning application boundary but outside of Working width (of cable route)	Low
1495	English oak	Dual trunk, 70cm dbh, 13m, some slight cracks on west face, knot hole 2m up on SW face with opening, minor broken limb 5m up on SW face with hole.	Within Working width (of cable route)	Moderate
1496	Alder	Immature multi stemmed alder, 20cm dbh, 7m high, with large crack running for 3m on one stem, mainly open but some areas where 1 bat can tuck in.	Within Working width (of cable route)	Moderate
1498	English oaks	Line of 13 multi and single stemmed oaks, viewed from adjacent parcel. At least 5 in centre of line up to moderate BRP but limited view from eastern land parcel and no clear features except some broken minor limbs.	Within Working width (of cable route)	Moderate
1499	Ash	Semi mature ash, 30cm dbh and 8m tall, some dense ivy cover on main stem. No other features.	Within Planning application boundary but outside of Working width (of cable route)	Low
1503	Willow	Mature willow, multi stemmed and toppling over with large callus roll near base on west side. Major limb broken on east face, some minor peeling bark.	Within Planning application boundary but outside of Working width (of cable route)	Low
1504	Oak	Semi-mature oak, minor peeling bark on trunk, 50cm dbh, 12m tall.	Within Planning application boundary but outside of Working width (of cable route)	Low
1505	Willow	Semi-mature willow, multi stemmed, minor peeling bark, no other features. 40cm dbh, 10m high.	Within Planning application boundary but outside of Working width (of cable route)	Low

Table B1: Results of Bat Roost Potential Surveys of Trees and Structures (see Figure 4)				
Reference	Species	Description and Features of BRP	Location	BRP rating
Trees				
1506	Oaks	Row of 9 young oak, all negligible BRP.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1507	Oak	Semi-mature Oak, 50cm dbh, 12m tall, no features for bats.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1508	Oak	Mature oak, 1.2m dbh, 14m high, broken limb 6m up on east face, 4m up on east face, peeling bark on several minor limbs, some core wood showing on minor limbs with missing bark. Knot hole 6m up on north face.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
1511	Willow sp.	Mature/veteran willow, 1.7m dbh, 12m high. Dense callus rolls on trunk up to 2m high, knot holes and cavities on south and SE aspects at 3m high, some cracks in bark on main trunk, small cavity NW aspect 3m high.	Within Working width (of cable route)	High
1512	Ash	Ash, 6m high, 40cm dbh with large crack in main trunk at 3m high on west aspect. Also peeling bark on main trunk and cracked bark on minor limb to north.	Within Working width (of cable route)	Moderate
1513	Oak	Young oak, 40cm dbh, 12m tall. No features visible. Bark lightly fissures but no limb damage.	Within Working width (of cable route)	Negligible
1527	Ash	Ash 9-10m height, 0.7 dbh, knothole 2.5m high north aspect of tree facing upward, open to elements.	Within Working width (of cable route)	Low
1543	Willow sp.	Semi-mature willow, 50cm dbh, 14m tall. No features for bats visible.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1544	Oak	Semi-mature oak, 60cm dbh, 12m tall. Split in secondary limb, west aspect, 4m up. Some minor split bark on secondary limbs.	Within Working width (of cable route)	Low
1549	Oak	Immature oak, 50cm dbh, 9m tall. No bat features visible.	Within Working width (of cable route)	Negligible
1554	Oak	Mature oak, 1cm dbh, 13m tall. Single trunk. Minor cracks in bark, bark receded from secondary limb on west aspect at 3m with a small gap. Minor crack in secondary limb south aspect 3m.	Within Working width (of cable route)	Low

Table B1: Results of Bat Roost Potential Surveys of Trees and Structures (see Figure 4)				
Reference	Species	Description and Features of BRP	Location	BRP rating
Trees				
1556	Oak	Mature oak, 1m dbh, 13m tall. Trunk splits into two limbs at 3m. Knot hole on south aspect of secondary limb, 4m up. Limb broken on east aspect 4m up. Peeling bark on minor limb on west aspect 6m up. Broken limb north aspect 9m up.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
1557	Oak	Mature oak, 1m dbh, 13m tall. Splits in bark, limb cracks and small cavity on secondary limb 5m up on west aspect. Peeling bark on all aspects.	Within Working width (of cable route)	Moderate
1558	Oak	Mature oak, 1m dbh, 13m tall. Minor peeling bark on main trunk on west aspect. Cant view east aspect, low potential.	Within Working width (of cable route)	Low
1559	Oak	Mature oak, 70cm dbh, 13m tall. Minor cracks in bark on main trunk on west aspect. Cant view east aspect, low potential.	Within Planning application boundary but outside of Working width (of cable route)	Low
1565	Oak	Mature oak, 70cm dbh, 13m tall. Splits into two trunks near ground level. Peeling bark with gaps under on two places at 5 and 7m on main trunk, east aspect. Knot hole on minor limb x2 ant 5 and 6m, SE aspect. Split in secondary limb E aspect 5m up, near fork.	Within Working width (of cable route)	High
1566	Oak	Mature oak, 70cm dbh, 13m tall. Some peeling bark on east aspect at 5m. Crack in secondary limb near fork, 5m up on NE aspect. Cavity on W aspect near ground level. Split in secondary limb E aspect 5m up, near fork.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
1569	Unknown	Large crevices from ground level to approx 2m high with numerous entrances that look like they go back into the main stem	Within Planning application boundary but outside of Working width (of cable route)	High
1570	Unknown	Large crevices in tree where holes have gone up into the main stem	Within Planning application boundary but outside of Working width (of cable route)	High
1589	Unknown	Potential cavity in Eastern aspect on limb approx 9m high. Low as precaution.	Within Working width (of cable route)	Low
1591	Pedunculate oak	12m high 35cm dbh.	Within Planning application boundary but outside of Working width (of cable route)	Low

Table B1: Results of Bat Roost Potential Surveys of Trees and Structures (see Figure 4)				
Reference	Species	Description and Features of BRP	Location	BRP rating
Trees				
1603	Unknown	Cracked limbs and burr on southern aspect of the tree with low potential.	Within Planning application boundary but outside of Working width (of cable route)	Low
1611	Oak	8m height, 0.45m dbh. broken limb 3.5m high on east aspect of tree, split in limb doesn't go deeper and has negligible BRP.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1615	Ash	Young ash, 6m height, dbh 0.3.	Within Working width (of cable route)	Negligible
1616	Sycamore	Sycamore, 6.5m high, dbh 0.45.	Within Working width (of cable route)	Negligible
1619	Ash	Semi-mature ash, 10m height, dbh 1m, wounds on stem 0.5m west aspect and 6m north aspect.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1620	Sycamore	Mature sycamore, 15m height, dbh 1.7m, dense ivy cladding on stem and branches and lifting bark on stem with brp moderate. frost rack 0.1m high southern aspect, cavity goes deep into tree stem, high brp, wound on south west aspect 1m high.	Within Working width (of cable route)	High
1634	Ash	Ash 7m height, 0.45 dbh, small knot hole with shallow cavity on west aspect of tree.	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1649	Unknown	Unknown	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1651	Unknown	Large cavities going into main stem which although dead is sealed at the top.	Within Working width (of cable route)	High
1653	Unknown	Two large cavities on northern aspect of the tree and two on southern aspect.	Within Planning application boundary but outside of Working width (of cable route)	High
1655	Unknown	Broken limb on northern and southern aspect approx 8m high.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
1657	Unknown	Broken limbs on tree may be features up tree which cannot be seen	Within Working width (of cable route)	Low
1661	Unknown	Tear outs on limbs which have created cavities smaller tear out facing ground.	Within Working width (of cable route)	Moderate
1662	Unknown	2 split limbs approx 5m up on western aspect.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
1665	Unknown	Unknown	Within Planning application boundary but outside of Working width (of cable route)	Negligible

Table B1: Results of Bat Roost Potential Surveys of Trees and Structures (see Figure 4)				
Reference	Species	Description and Features of BRP	Location	BRP rating
Trees				
1666	Unknown	Unknown	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1669	Unknown	Unknown	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1672	Ash	Hole and base of broken limb	Within Working width (of cable route)	Moderate
1673	Willow sp.	Willow with large splits and cracks in stem 1.5m high.	Within Planning application boundary but outside of Working width (of cable route)	High
1681	Unknown	Callus roll on limb around 5m up on western aspect of tree. Could not get close to tree due to fences.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
1683	Unknown	Unknown	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1686	Unknown	Unknown	Within Working width (of cable route)	Negligible
1688	Unknown	Unknown	Within Working width (of cable route)	Negligible
1700	Unknown	Unknown	Within Planning application boundary but outside of Working width (of cable route)	Negligible
1702	Unknown	Split limb, likely doesn't go back into tree but precautionary approach due to compound.	Within Planning application boundary but outside of Working width (of cable route)	Low
1706	Unknown	12m high 40cm dbh multiple split limbs .	Within Planning application boundary but outside of Working width (of cable route)	Low
1731	Oak	High density of ivy cover	Within Working width (of cable route)	Moderate
1734	Oak	Mature oak, minor limb hanging off with split bark, eastern aspect 3m up, some minor peeling bark.	Within Planning application boundary but outside of Working width (of cable route)	Moderate
Structures				
1674	N/A	Small brick farm building. Partially demolished/fallen down and surrounded by Heras fencing. Crevices present within remaining brickwork although single skin and now exposed. Some ivy cladding.	Within Planning application boundary but outside of Working width (of cable route)	Low Structure -
312	N/A	3m wide concrete bridge over stream with negligible bat roost potential.	Within Planning application boundary but outside of Working width (of cable route)	Negligible Structure -
313	N/A	3m wide bricked old bridge over stream, crack an cervices present in brickwork, vegetated and undisturbed as bridged not in use.	Within Working width (of cable route)	Low Structure -

Annex 4 - Bat Activity Transect Data

Table B2: May transect survey results (shown on Figure 3.1)					
Date	19 th May 2021				
Location	EL2 Drax Converter station site				
Time	20:51 – 23:06				
Temperature	15°C - 15°C				
Weather	15°C - 15°C, Rain 0, Wind 2, Cloud 2/5, Stormy with some rain and sunny spells				
Sunrise/ sunset	21:06				
Reference	Time	Species	Number of bats	Recorded?	Description
1	21:38	PIPI	1	Y	1 pass, flew down track north to south towards lake (commuting)
2	21:40	PIPI	1	Y	HNS
3	21:42	PIPI	1	Y	1 pass, north to south down track towards lake
4	22:05	PIPI	1	Y	Two passes towards woodland, second time HNS from track sounding fainter
5	22:44	PIP SP	1	Y	HNS
6	22:50	PIPI / MYSP	1	Y	HNS, could have been 2 bats
7	22:53	PIPI	1	Y	HNS

Table 6-B3: July transect survey results (Figures 3.2)					
Date	22 nd July 2021				
Location	EL2 Drax Converter station site				
Time	21:01 – 22:46				
Temperature	20°C - 20°C				
Weather	20°C - 20°C, Rain 0, Wind 2, Cloud 2/5, Warm, light breeze and clear				
Sunrise/ sunset	21:16				
Reference	Time	Species	Number of bats	Recorded?	Description
1	22:01	PIPI	1	Y	Two passes down wren lane, south to north
2	22:04	PIPI	1	Y	Four passes foraging up and down wren lane at point 5
3	22:17	PIPI	1	Y	Flying south to north along wren lane
4	22:20	PIPI	1	Y	HNS
5	22:21	PIPI	2	Y	Two passes and two bats, HNS
6	22:25	PIPI	1	Y	HNS
7	22:34	PIPI	1	Y	HNS, quite faint
8	22:50	PIPI	1	Y	HNS

Table 6-B4: September transect survey results (Figures 3.3)					
Date	07 th September 2021				
Location	EL2 Drax Converter station site				
Time	19:24 – 21:39				
Temperature	26°C - 26°C				
Weather	26°C - 26°C, Rain 0, Wind 1, Cloud 0/5, Warm, clear				
Sunrise/ sunset	19:39				
Reference	Time	Species	Number of bats	Recorded?	Description
3-2	20:13	PI Sp	1	Y	Commuting along side of woodland HNS
3-2	20:16	PIPI	1	Y	Commuting along side of woodland west to east
3-2	20:20	PIPI	1	Y	Commuting along side of woodland HNS
6-5	20:37	PIPI	1	Y	Commuting down hedgerow south to north
6-5	20:38	PIPI	2	Y	Commuting down hedgerow south to north
6-5	20:40	NYNO	1	Y	HNS
5	20:45	PIPI	1	Y	Commuting down hedgerow south to north
5	20:49	PIPI	1	Y	Commuting along road south to north
5	20:50	PIPI	1	Y	Commuting along road south to north
5	20:51	PIPI	1	Y	Commuting along road south to north
4-3	21:05	PIPI	1	Y	HNS
3	21:08	PIPI	1	Y	HNS
3-2	21:11	PIPI	1	Y	HNS
2	21:18	PIPI	1	Y	HNS
6	21:26	NYNO	1	Y	HNS

Annex 5 - Bat Activity Index Calculations

SUMMARISED BAT ACTIVITY TRANSECT DATA

Table 6-B5: Summarised results of Transect Activity Surveys – converter station site

Session	Number of passes per bat species (total over 5 full nights)						Total duration over survey period (hrs)	Average total Bat Activity Index (BAI) per month
	Total Common Pipistrelle	Total Soprano Pipistrelle	Total Daubenton' s	Total Myotis sp.	Total Noctule	Total Brown long-eared		
May 19th 2021	13	0	4	0	0	0	2	
Bat Activity Index May (BAI)	6.5	0	2	0	0	0		1.416667
July 22nd 2021	15	2	0	1	2	0	2	
Bat Activity Index July (BAI)	7.5	1	0	0.5	1	0		1.666667
September 07th 2021	9	1	11	0	1	0	2	
Bat Activity Index September (BAI)	4.5	0.5	5.5	0	0.5	0		1.833333
Average Bat Activity Index (BAI)	6.16666667	0.5	2.5	0.16666667	0.5	0		1.638889

SUMMARISED BAT STATIC DETECTOR DATA

Table 6-B6: Summarised results of Static Detector Activity Surveys – converter station site

Session	Number of passes per bat species (total over 5 full nights)						Total duration over survey period (hrs)	Average total Bat Activity Index (BAI) per month
	Total Common Pipistrelle	Total Soprano Pipistrelle	Total Daubenton' s	Total Myotis sp.	Total Noctule	Total Brown long-eared		
May (11-17/05/2021)	3	0	23	5	0	2	56.54	
Bat Activity Index May (BAI)	0.0530598	0	0.406792	0.088433	0	0.0353732		0.0972763
July (12-19/07/2021)	35	1	0	26	9	25	60.5	
Bat Activity Index July (BAI)	0.5785124	0.0165289	0	0.429752	0.14876	0.4132231		0.2644628
September (31/08/2021-06/09/2021)	78	6	126	1	23	0	74.48	
Bat Activity Index September (BAI)	1.047261	0.0805585	1.691729	0.013426	0.308808	0		0.5236305
Average Bat Activity Index (BAI)	0.5596111	0.0323625	0.699507	0.177204	0.152523	0.1495321		0.2951232

