



**BIODIVERSE**  
CONSULTING

# **440 HOLLINWOOD**

**CONSTRUCTION ECOLOGICAL  
MANAGEMENT PLAN**

**FOR: LIDL GB LTD**

**REF: BIOC24-094 | V1.0**

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| CLIENT                                                           | PROJECT       |                               |
|------------------------------------------------------------------|---------------|-------------------------------|
| Lidl GB Ltd,<br>14 Kingston Road,<br>Surbiton,<br>KT5 9NU,<br>UK | Project Name: | Lidl – 440 Hollinwood         |
|                                                                  | Project code: | BioC24-094                    |
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|                                                                  | Date:         | 13 <sup>th</sup> October 2025 |

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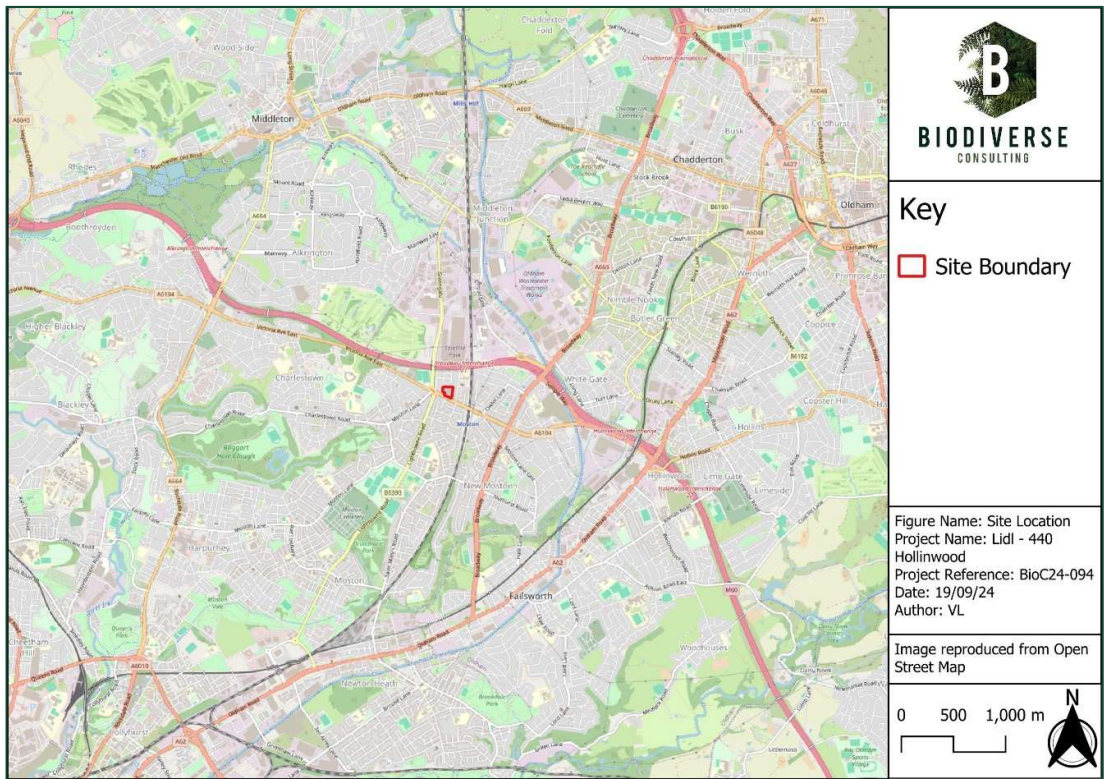


# INTRODUCTION

## 1.1 SITE LOCATION & DESCRIPTION

The Site is located at Hollinwood Avenue, New Moston, Manchester, M40 0JZ, at an approximate central grid reference of SD 88560 03210 as illustrated in Figure 1. The 0.81ha Site currently consists of several warehouse buildings, hardstanding and urban landscaping (see Appendix A for Baseline Habitats map).

**FIGURE 1: SITE LOCATION**



## 1.2 PURPOSE

The Construction Ecological Management Plan (CEcMP) aims to ensure that the ecological receptors within the Site are protected during the construction process through avoidance and mitigation measures. This report is based on the findings and assessment presented within the Lidl 440 Hollinwood Preliminary Ecological Appraisal (PEA) V1.3 produced by Biodiverse Consulting in July 2025<sup>1</sup>.

<sup>1</sup> Biodiverse Consulting (2025) BioC24-094 Lidl 440 Hollinwood PEA V1.3



The objective of this report is to discharge planning condition 13 associated with this application as requested by Manchester City Council:

*13 - "Prior to any site clearance or earthworks, a reasonable avoidance measures method statement for hedgehog and other mammals shall be submitted to and approved in writing by the City Council as local planning authority. The development shall be carried out in accordance with the agreed details."*

### 1.3 DEVELOPMENT PROPOSALS

The Site is proposed to be redeveloped into a retail supermarket and associated infrastructure including landscaping based on plans at the date of the production of this report. Detailed landscaping plans can be found in Appendix B (Drawing number: R-2825-1A).

### 1.4 SITE CONTEXT

The Site is approximately 0.81ha in extent and currently comprises Modified Grassland, Developed Land; Sealed Surface in the form of warehouse buildings and hardstanding, Introduced Shrub and Urban Trees (see Appendix A for baseline habitats map).

The Preliminary Ecological Appraisal identified potential impacts to the following protected/priority species.

- Birds
- Bats
- Hedgehogs

### 1.5 ROLES AND RESPONSIBILITIES

It is the responsibility of LIDL GB and their appointed principal contractors and Site representatives, to implement this CEcMP, with the support of a suitably qualified Ecological Clerk of Works (ECOW).

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## 2 LEGISLATION

### 2.1 THE WILDLIFE & COUNTRYSIDE ACT

The Wildlife and Countryside Act 1981, as amended by the Countryside and Rights of Way Act (CRoW) 2000 and the Natural Environment and Rural Communities Act (NERC) 2006, is the main legislation that protects wildlife in Great Britain and is the mechanism for defining and protecting nationally important Sites of Special Scientific Interest (SSSI). The legislation makes it an offence to:

- Intentionally kill, injure or take any wild bird or their eggs or nests (with certain exceptions) and disturb any bird species listed under Schedule 1 to the Act, or its dependent young while it is nesting.
- Intentionally kill, injure or take any wild animal listed under Schedule 5 to the Act (including bats); intentionally or recklessly damage, destroy or obstruct any place used for shelter or protection by any wild animal listed under Schedule 5 to the Act; intentionally or recklessly disturb certain Schedule 5 animal species while they occupy a place used for shelter or protection; and
- Pick or uproot any wild plant listed under Schedule 8 of the Act. Schedule 9, Part II of the Act also lists many species for which it is an offence to plant, or otherwise cause to grow, in the wild.

### 2.2 THE CONSERVATION OF HABITATS AND SPECIES REGULATIONS 2017

The Conservation of Habitats and Species Regulations 2017 (the 'Habitat Regulations'), as amended by The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019, establish the requirements for protecting sites that are internationally important for threatened habitats and species – the National Site Network – and thus the requirement for a 'Habitat Regulations Assessment' of plans or developments with potential to affect them.

The Habitat Regulations also establish the strict protection of some species – European Protected Species, including all bats – and make it an offence to deliberately capture, kill or disturb certain wild animals, and to damage or destroy a breeding site or resting place of such an animal (even if the animal is not present at the time).

### 2.3 NATURAL ENVIRONMENT & RURAL COMMUNITIES (NERC) ACT 2006

The NERC Act 2006 places a duty on local planning authorities to have due regard for biodiversity and nature conservation during their operations, and thus ensures that biodiversity is a key consideration in the planning process. The Act also establishes a list of species and habitats of principal importance for the conservation of biodiversity. Such species include common toad and hedgehog.



## 2.4 BIODIVERSITY ACTION PLANS

The UK Biodiversity Action Plan (UK BAP) was developed to fulfil the Rio Convention on Biological Diversity in 1992, to which the UK is a signatory. The UK Post-2010 Biodiversity Framework succeeded the UKBAP and expired in 2019, but the UKBAP priority species and habitats are retained through the NERC Act 2006. Regional and local BAPs have also been developed for species/habitats of nature conservation importance at regional and local levels.



## 3 RISK ASSESSMENT AND MITIGATION STRATEGY SUMMARY

| RECEPTOR | POTENTIAL IMPACT                                                                                                                                                                                                                                                                                                                   | ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Habitats | <ul style="list-style-type: none"><li>• Destruction of, or damage to habitats not scheduled to be removed (trees)</li><li>• Loss of habitat.</li></ul>                                                                                                                                                                             | <ul style="list-style-type: none"><li>• Method statement to be followed to prevent damage or destruction to habitats such as retained trees and boundary off-site habitats.</li><li>• Toolbox talk to all Site personnel.</li><li>• Implement Construction Exclusion Zones based on the assessed Root Protection Areas using the prescribed fencing.</li><li>• Method statement to be followed to prevent and reduce damage, including soil compaction, to retained and boundary habitat features.</li></ul>                                                                                                                                                                                                                   |
| Birds    | <ul style="list-style-type: none"><li>• Disturbance through increased lighting, noise, and vibration</li><li>• Disturbance of, or damage to potential nests.</li><li>• Death of breeding birds and juveniles during construction work and/or Site clearance</li><li>• Loss of habitat for breeding and raising juveniles</li></ul> | <ul style="list-style-type: none"><li>• The method statement for birds will be followed and toolbox talk provided to all Site personnel.</li><li>• A nesting bird check to be carried out by an ECOW up to 48 hours before work commences, should Site clearance work be undertaken during the breeding bird season (1<sup>st</sup> March to 31<sup>st</sup> August inclusive).</li><li>• Should a nest be found, clearance and construction works within the vicinity of the nest will stop immediately, and it will be assessed by an ECOW to determine if it is vacant and if works can continue.</li><li>• Additional lighting will be kept to a minimum on Site during both construction and operational phase.</li></ul> |



| RECEPTOR                                                            | POTENTIAL IMPACT                                                                                                                                                                                                                                                               | ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bats</b>                                                         | <ul style="list-style-type: none"> <li>Disturbance and reduction in habitat value through increased Site lighting during construction and operation phase.</li> <li>Disturbance during construction phase.</li> <li>Loss of foraging habitat and commuting habitat.</li> </ul> | <ul style="list-style-type: none"> <li>The method statement for bats will be followed and toolbox talk provided to all Site personnel.</li> <li>Should a bat be encountered, all clearance and construction works must stop and the ECOW contacted to advise on how best to proceed. Do not handle any bat(s).</li> <li>Additional lighting will be kept to a minimum on Site during both construction and operational phase. Where lighting must be used it will be positioned away from the boundary commuting features.</li> </ul> |
| <b>Priority Species (Hedgehog)</b>                                  | <ul style="list-style-type: none"> <li>Disturbance during construction phase.</li> <li>Loss of habitat.</li> </ul>                                                                                                                                                             | <ul style="list-style-type: none"> <li>Any priority species found will be safely moved to a suitable habitat at a safe distance from the works.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Invasive species (Montbretia <i>Crocasmia crocosmiflora</i>)</b> | <ul style="list-style-type: none"> <li>Spread of Schedule 9 invasive non-native plant species via contaminated vehicles/equipment/soils</li> </ul>                                                                                                                             | <ul style="list-style-type: none"> <li>The method statement for invasive species will be followed and toolbox talk provided to all site personnel.</li> <li>Pre-construction survey will be required to identify any changes in species distribution and infested areas mapped out.</li> <li>Any Montbretia will need to be removed by a licensed specialist contractor.</li> </ul>                                                                                                                                                   |
| <b>Applicable to all receptors</b>                                  |                                                                                                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>All construction activity will be undertaken in accordance with industry best practice including minimising the working area and duration of works.</li> <li>All excavations must be closed overnight to avoid trapping any wildlife which may fall in. If closure is not possible the creation of sloping escape ramps will be used which may be achieved by edge profiling at a 45° angle or by using planks large enough for a person to walk up, in order to provide</li> </ul>            |



| RECEPTOR | POTENTIAL IMPACT | ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                  | <p>animals with an exit route. Any trenches not closed overnight will be checked for protected and notable species each morning prior to the recommencement of works.</p> <ul style="list-style-type: none"><li>• Open pipework with an outside diameter of 150mm or larger will be blocked off at the end of each day to avoid trapping animals within.</li><li>• All construction plant and equipment will comply with national noise emission limits.</li></ul> |



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## 4 METHOD STATEMENTS

### 4.1 INTRODUCTION

The Method Statements (MS) described here are the practical measures and best practice required to avoid or reduce impacts during site clearance and construction as well as for management of habitats post construction to enhance biodiversity.

### 4.2 GENERAL

#### 4.2.1 Purpose

To ensure that the Site is cleared in a manner that is legally compliant and ecologically sensitive. It should also be noted that the Site clearance MS does not include removal or treatment of invasive species, if relevant.

#### 4.2.2 Avoidance and Mitigation Protocols

The following measures aim to follow best practice in relation to site clearance works:

1. An ECOW will be appointed to provide advice and supervision before and during construction.
2. Site Foreman/lead contractor will be provided with CEcMP prior to commencing works on Site and the details of the appointed ECOW.
3. All contractors will receive a toolbox talk from the ECOW prior to commencing works on Site. The toolbox talk will cover legislation, identification and sensitive working practices.
4. Designated receptor site to be agreed and marked on map between Site foreman/lead contractor and ECOW for the translocation of priority species (as outlined in Section 3) away from construction area.
5. All excavations must be closed overnight to avoid trapping any wildlife which may fall in. If closure is not possible the creation of sloping escape ramps will be used which may be achieved by edge profiling at a 45° angle or by using planks large enough for a person to walk up in order to provide animals with an exit route. Any trenches not closed overnight will be checked for protected and notable species each morning prior to the recommencement of works.
6. Any chemicals required during the construction works will be stored in accordance with best practice guidelines. An appropriate locked container will be used when not in use and spill kits will be available on-site at all times.
7. A plan will be made for the storage of materials in a designated area away from vegetation to reduce the risk of wildlife taking shelter within materials left on the ground.
8. No fires will be lit.



9. Open pipework with an outside diameter of 150mm or larger will be blocked off at the end of each day to avoid trapping animals within.

10. Attention will be paid to site hygiene with food and waste disposed of appropriately.

### 4.3 RETAINED HABITATS MS

#### 4.3.1 Purpose

To ensure that damage and disturbance to retained habitat features is minimised throughout the construction phase on any individual trees that are to be retained on Site under current development plans (see Detailed Landscaping Plans in Appendix B). Figure 2 displays the locations of retained trees.

**FIGURE 2: RETAINED TREES**



#### 4.3.2 Avoidance and Mitigation Protocols

The following measures aim to reduce impacts from construction on retained habitats

- Areas of retained habitat will be protected from damage by excluding access to plant, contractors and the storage of materials/equipment.
- The areas of retained habitat will be marked out appropriately in a way that clearly shows a works exclusion zone. Temporary boundaries such as fencing and/or tree



protection fencing will be installed to protect habitats from plant, footfall and storage of materials/equipment.

- Signage indicating the need to exclude access for plant and contractors as well as storage of materials/equipment will be installed on the boundaries of these areas.
- Should access be required to these areas for works then measures will be taken to restrict the extent of access as much as possible, reduce the time that access is required. Ground protection measures will also be deployed to avoid soil compaction and damage to root systems.

## 4.4 BATS MS

### 4.4.1 Purpose

The Site has negligible foraging opportunities for bats. Buildings onsite provided negligible roosting opportunities, and trees on Site are not considered suitable for roosting bats as they lacked Potential Roosting Features (PRFs). The trees offered good commuting opportunities.

This MS sets out precautionary measures to avoid/minimise the impact on bats and their habitats, including information on field signs to enable Site personnel to identify and take appropriate steps to avoid harm.

### 4.4.2 Bat Identification and Field Signs

Bats are most commonly seen flying at low levels in the summer months at dusk or dawn. The smaller species of bats encountered in the UK are around the size of a matchbox and can fit in very small gaps, around the width of a thumb. They have brown-sandy coloured fur and may be found singly or in large groups within crevices in buildings or trees.

Field signs which indicate the presence of bats include small droppings less than 10mm in length, similar to mouse droppings but, unlike mouse droppings which are hard, bat droppings will crumble if pressed.

### 4.4.3 Avoidance and Mitigation Protocols

The following avoidance measures will be implemented to prevent the killing, injuring or disturbance to any bats, and avoid damage to any potential roosts on site:

- Should any bat be encountered, all works must stop immediately and an ECOW contacted to advise on how best to proceed. Do not handle any bat(s).
- Details of any construction lighting to prevent potential impacts to bats and other nocturnal species using the Site.
- During construction, minimum lighting will be used. If lighting must be used, and where compatible with Health and Safety requirements, it will be designed to be positioned away from the trees around the perimeter of the Site.



- Lighting will be limited to avoid the periods when bats are most active (April – November between the hours of dusk to dawn).

## 4.5 BIRDS MS

### 4.5.1 Purpose

Trees on Site provide some nesting opportunities for birds, however foraging opportunities are limited.

This MS sets out precautionary measures to avoid/minimise the impact on birds and their habitats, including information on field signs to enable site personnel to identify and take appropriate steps to avoid harm.

### 4.5.2 Identification of Nests and Breeding Behaviour

There are numerous bird species that breed within the UK. Observations of behavioural characteristics during the nesting process is an effective method of identifying a potential breeding bird. These include five stages:

- Courtship/pairing – males will display/sing within a territory to attract females and guard their territory from other member of the same species.
- Nest building – birds that have paired up will begin construction of a nest by repeatedly visiting sheltered areas to gather materials.
- Mating - upon completion of the nest, the pairs will copulate in the early hours of the morning usually over multiple days.
- Egg incubation – birds will anchor themselves down over the nest and eggs. Approaches to coparenting can vary between species, such as, feeding runs and alternate incubation between the male and female.
- Hatching/fledging – typically over several weeks the parent birds will repeatedly visit areas to forage and feed young.

### 4.5.3 Avoidance and Mitigation Protocols

The following methods will be implemented to avoid impacts on birds:

- Site clearance works of trees will not be undertaken during the nesting bird season (March to August inclusive) unless the site is checked 48 hours prior to works by an appropriately experienced ecologist and nests are confirmed to be absent.
- If a nesting bird is found outside of the nesting bird season on/next to vegetation due to be removed works will stop immediately and the ECOW will be contacted to check the nest and advise on how to proceed.



- During construction, minimum lighting will be used. If lighting must be used it will be designed to be positioned away from potential commuting areas such the trees along the east and southeast boundaries of the Site.

## 4.6 HEDGEHOG MS

### 4.6.1 Purpose

This MS sets out precautionary measures to avoid/minimise the impact on hedgehogs that have limited potential to be present on Site, including information on identification and field signs to enable site personnel to identify and take appropriate steps to avoid harm.

### 4.6.2 Identification

The hedgehog is a solitary nocturnal mammal of around 16-20cm in length with most of its body covered by brown and white spines (see Image 1).

### 4.6.3 HEDGEHOG FIELD SIGNS

#### 4.6.3.1 Hedgehog Footprints

Footprints can be found in soft ground such as mud. They are five-toed, and their prints are usually 2-3cm in width (see Image 3).

#### 4.6.3.2 Hedgehog

In foraging areas excrement can be found. They are approximately 1.5-5cm long and often have a metallic appearance due to the mammal’s diet (see Image 2).

**TABLE 1: HEDGEHOG IDENTIFICATION**

| IMAGE 1:<br>HEDGEHOG                                                                | IMAGE 2: HEDGEHOG<br>DROPPINGS                                                      | IMAGE 3: HEDGEHOG<br>PRINTS                                                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |

### 4.6.4 Avoidance and Mitigation Protocols

The following general protection measures will be implemented to reduce the likelihood of hedgehogs being killed or injured by the development:



- Care and diligence will be used at all times during any vegetation removal on the Site.
- If a hedgehog is found on site it will be carefully caught by hand and placed in a bucket to be moved to a designated receptor area.

## 4.7 INVASIVE SPECIES MS

### 4.7.1 Purpose

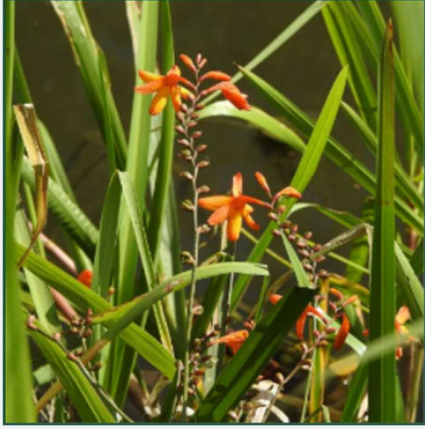
This MS sets out precautionary measures to prevent the spread of Schedule 9 invasive plant species *Montbretia Crocosmia crocosmiflora* which was identified in the east of the Modified Grassland habitat (see Figure 3 for location of Montbretia).

**FIGURE 3: LOCATIONS OF INVASIVE SPECIES**



### 4.7.2 Identification

Montbretia is a 60cm tall plant which forms dense clumps of upright sword-shaped foliage. It has sprays of bright orange flowers, carried in branched spikes.

**TABLE 2: MONTBRETIA IDENTIFICATION****IMAGE 4: MONTBRETIA**

Reference: David Gould (2016). G.U. Canal, Aylestone.

### 4.7.3 Avoidance and Mitigation Protocols

#### 4.7.3.1 *Pre-construction Survey*

A pre-construction survey will be required of the proposed site to identify any changes in species distribution. The infested areas should be mapped out and will inform where controls and treatment methods will need to be implemented

#### 4.7.3.2 *Site Controls*

Following pre-construction checks the composition and spread of invasive species on Site will have been identified precisely. These areas will need a range of control measures put in place to prevent their spread. The following measures briefly outline what will be required:

- Following the pre-construction check, infested areas will be fenced off and will remain this way during construction works where possible.
- Access will be restricted to those on foot with cleaning stations for footwear and equipment.
- Installation of dedicated footwear and cleaning stations at the exit of fenced off locations.
- All site operatives will be provided a toolbox talk on the identification, risks and working methods required to manage invasive species.
- Contaminated soils will be stored in pre-determined storage locations on impermeable surfaces 50m away from any waterbody. All contaminated soils disposed of appropriately.



- If soil is imported for use on site the contractor will obtain documentation from the suppliers showing the soil is free of invasive species.
- On site RAMS will include the washing of equipment, footwear and vehicles using disinfectant.

#### *4.7.3.3 Treatment*

Any Montbretia found on site will need to be removed by a licenced specialist contractor.



## 4.8 FURTHER ENHANCEMENTS

### 4.8.1 PROTECTED SPECIES ENHANCEMENT MEASURES

The proposed development will include the provision of bat and bird boxes installed onto mounted poles.

These will comprise the following:

- 3 bird boxes (x2 Woodcrete Schwegler 1B Nest Box 32mm, and x1 Woodcrete Schwegler 1B Nest Box 26mm, or similar).
- 3 bat boxes (x1 Vivara Pro Woodstone Bat, and x2 Vivara Pro Large Multi Chamber Woodstone Bat Box, or similar).

Details of bat and bird box specifications are shown in Appendix C. A recommended location plan of the pole-mounted bat and bird boxes is shown in Appendix D.

A series of gaps of at least 13cm x 13cm will be created around the perimeter of the development to facilitate movement of hedgehogs and other small animals through the Site (see Appendix D).



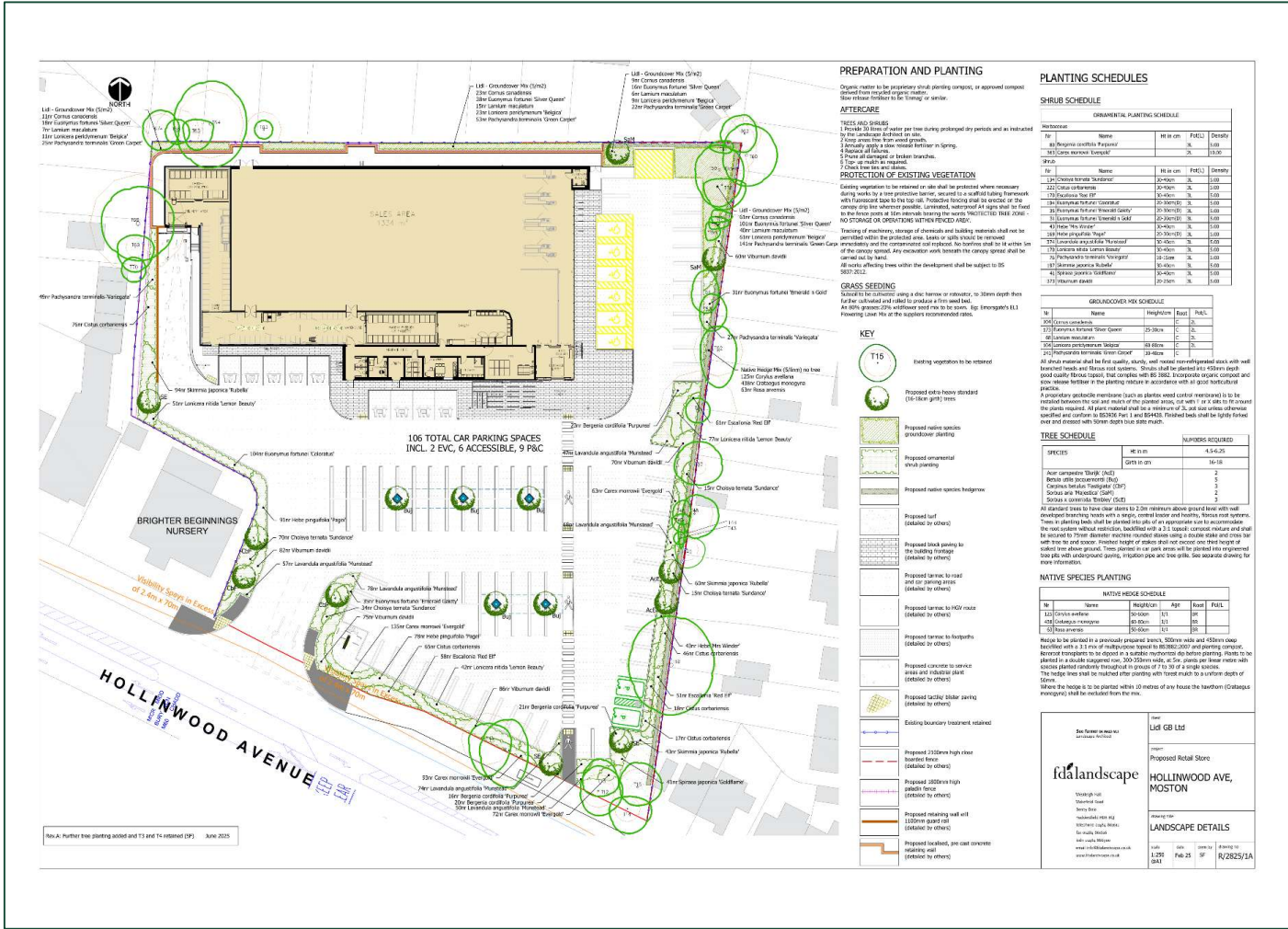
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# APPENDICES

## APPENDIX A – BASELINE UKHAB



APPENDIX B – DETAILED LANDSCAPING PLANS





APPENDIX C – BAT AND BIRD BOX SPECIFICATIONS

| BIRD BOX SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Woodcrete Schwegler 1B <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Dimensions                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <ul style="list-style-type: none"><li>• Height: 23 cm</li><li>• Width: 16 cm</li><li>• Weight: 3.6 kg</li></ul> |
| <p><b>Description:</b> Simple to install, inspect and clean. Schwegler nestboxes are famous for their durability. They will last 20 – 25 years. Made from patented wood-concrete material consisting of 75% wood, which provides insulation and aids ventilation.</p> <p>2 Hole sizes:</p> <p>Brown model: The 32mm entry hole nest box may attract tits, sparrows, redstarts, and</p> <p>Green model: The 26mm entry hole nest box may attract blue, marsh, coal and crested tit and possibly wren, but other species are prevented from using the nest box.</p> <p><b>Placement will consider the following:</b></p> <ul style="list-style-type: none"><li>• The nesting features will be positioned at an eastern or western aspect.</li><li>• The boxes must be mounted on pole at a minimum height of 4 metres.</li><li>• Positions chosen will be sheltered from the strong winds and heavy rain.</li><li>• It is advised that nest boxes are cleaned annually with existing materials emptied if they have been used. This maintenance should take place outside of the breeding bird season (April – September inclusive) to avoid disturbing an active nest.</li></ul> |                                                                                                                 |

<sup>2</sup> NHBS (2025) 1B Schwegler Nest Box Specification. Available at: <https://www.nhbs.com/1b-schwegler-nest-box>



| BAT BOX SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Vivara Pro WoodStone® Bat Box <sup>3</sup> (or similar)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Dimensions                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"><li>• Height: 250 mm</li><li>• Width: 190 mm</li><li>• Depth: 165 mm</li><li>• Weight: 4.5 kg</li></ul> |
| <p><b>Description:</b></p> <p>This bat box that will provide much needed summer roosting space for bats in both urban and rural areas. Due to changes in building construction and woodland management practices, natural cavities for bat roosts are very rare so providing a bat box can really help the bats in your area.</p> <p>This box is made from woodstone a mixture of wood fibres from fully certified FSC wood sources and concrete, and it is designed to last for years. It is breathable so there will be no problems with condensation and maintains a consistent temperature inside, providing excellent insulation for roosting bats. Woodstone also provides a rough surface which the bats can easily cling to and move around the box.</p> <p>The box can be attached to either a wall or a tree (fixings not included) and should be sited at a height of at least 3m from the ground. Bats prefer to change roosts to benefit from varying ambient temperatures, so bat boxes should ideally be clustered in small groups.</p> |                                                                                                                                           |
| Vivara Pro Large Multi Chamber WoodStone Bat Box (or similar) <sup>4</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Dimensions                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"><li>• Height: 390 mm</li><li>• Width: 215 mm</li><li>• Depth: 200 mm</li><li>• Weight: 4 kg</li></ul>   |
| <p><b>Description:</b></p> <p>This multi chambered bat box has a large internal space that can accommodate a colony of bats. It can be used as a summer roost, maternity roost or hibernation box</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                           |

<sup>3</sup> NHBS (2025) Vivara Pro WoodStone® Bat Box Specification. Available at: <https://www.nhbs.com/vivara-pro-woodstone-bat-box>

<sup>4</sup> NHBS (2025) Large Multi Chamber WoodStone Bat Box Specification. Available at: <https://www.nhbs.com/large-multi-chamber-woodstone-bat-box>



during mild winters. The box features internal wooden dividers as well as a rough surface, this provides a wide variety of hanging spaces as well as making it easier for bats to grip. There are two entrances, one on the front panel and one on the underside of the box. The front panel and internal wooden dividers can be removed for easy cleaning in the winter months, provided the box is not occupied.

The exterior and front panel of the box is constructed using woodstone. This material has excellent thermal properties that ensure the inside of the box will maintain a consistent temperature, is breathable which eliminates the issues with condensation, and has a lifespan of up to 10 years. The box can be mounted onto trees or on buildings and is best positioned at a height of between 3m and 6m.

**Bat box placement will consider the following:**

- The boxes must be mounted on pole at a minimum height of 4 metres
- Roosting features should be positioned over a range of aspects and locations in order to provide options for bats with different microclimate conditions.
- Positions chosen should be sheltered from the wind but receive direct sunlight throughout the day.
- A clear flight path into the roost is preferable with unrestricted/uncluttered access.
- Roosts should be positioned away from artificial light sources such as streetlights or security lighting.
- Sheltered from wind and rain.
- Once bats have inhabited a roost site they may only be disturbed by licensed bat workers.





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