

BIODIVERSITY MITIGATION AND ENHANCEMENT PLAN



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Proposal: Proposed Detached Dwelling with Associated Hard and Soft Landscaping on Land to the West of Hill House, Wicken Road, Clavering, Essex CB11 4QT

Client : London and Country Homes Clavering Limited

January 2024 V1

Project No JDA/2023/925

1.0 INTRODUCTION

This is a reserved matters application in respect of application UTT/21/3648/OP for Outline planning permission for the erection of 1 no. dwelling with all matters reserved except for access and scale at Hill House, Wicken Road, Clavering CB11 4QT. Outline permission was granted on 28th January 2022 with all matters reserved.

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1. INTRODUCTION

This Biodiversity Mitigation and Enhancement Plan has been prepared by John Dickie Associates to provide details of the biodiversity mitigation and enhancement measures to be implemented on site with a work program in connection with the erection of 1 no. dwelling with all matters reserved except for access and scale at Hill House, Wicken Road, Clavering CB11 4QT.

2 SCOPE OF THE BIODIVERSITY MITIGATION AND ENHANCEMENT PLAN

This Biodiversity Mitigation and Enhancement Plan refers to a site at Wicken Road, Clavering.

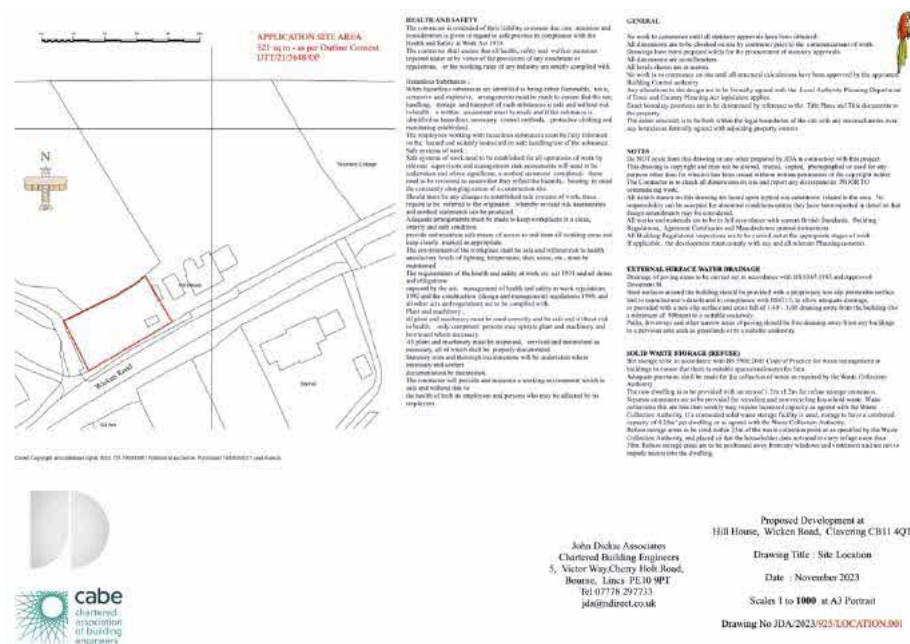


Figure 1 – Location Plan

3 EVALUATION AND OBJECTIVES FOR MITIGATION AND ENHANCEMENT

Enhancement Objectives and Rationale

The enhancement objectives for the site are as follows:

1. Provide nesting opportunities for declining bird species, to include Swallow and House Sparrow *Passer domesticus*.
2. Provide roost sites for pipistrelle *Pipistrellus* sp. bat species.
3. Maintain foraging and commuting opportunities for bats.
4. Retain hedgehog *Erinaceus europaeus* commuting routes – fencing spec.
5. Increase biodiversity on site with native planting and enhancements.

Rationale for Objectives

Objective 1: Provide nesting opportunities for bird species

Many once-common bird species are suffering declines, partly as a result of reduced nesting habitat. Birds that are known to nest successfully in close proximity to human activity are the focus of this enhancement objective.

House sparrow and starling are both species of principle importance (NERC, 2006) and are red-listed within the Birds of Conservation Concern 5.

Objective 2: Provide roost sites for pipistrelle bat species

Bat populations in the UK have experienced declines in recent years in part as a result of roost loss. The specified provision of roost units on the site will improve the site value for bats.

Objective 3: Maintain foraging and commuting opportunities for bats

Habitat loss and fragmentation has had an adverse impact on bat populations in the UK. The use of Bat friendly lighting will ensure bats can continue to use the site for foraging and commuting. This in turn can benefit other wildlife.

Objective 4: Retain hedgehog commuting routes

Hedgehog populations have declined by a third in the last 10 years, mainly as a result of habitat loss and fragmentation; they are now a Species of Principle Importance (SPI) and were recently classified as 'vulnerable' on the IUCN red list due to their decline in this country. Measures within the proposals will maintain commuting opportunities for hedgehogs.

Objective 5: Increase biodiversity on site with native planting and enhancements

The proposed site landscaping and re-wilding zone will be implemented to create opportunities for a broad range of invertebrate species. Many of the target species for enhancement measures forage on invertebrate prey and increasing opportunities for insects will improve the overall value of the development site.

4. MANAGEMENT PRESCRIPTIONS

Provide nesting opportunities for declining bird species

Refer to site layout and elevations for full details.

Maintain foraging and commuting opportunities for bats

To allow bats to continue to use the site for foraging and commuting, external lighting will be kept to a minimum. External lighting will be limited to the immediate surrounds of the buildings and must be sensor-activated and on a timer in order to limit the impact of light pollution. All external lighting has been carefully designed to minimise disturbance to bats, by using down-lights rather than up-lighters using low bollards where possible and using shields to limit light spill.

Any external lighting used should emit minimal ultra-violet light, be narrow-spectrum (avoiding white and blue wavelengths).

Refer to LIGHTING/001 for full details

Retain hedgehog commuting routes

Hedgehogs have the potential to occur on the development site. To maintain commuting routes for hedgehogs between the site and the surrounding areas, all new fences must have a 13cm x 13cm hole at the base or be raised off the ground. Fencing types can be found at <https://www.jacksons-fencing.co.uk/hedgehog-fencing> and <https://www.stockportfencing.co.uk/product/6-x-1-concrete-hedgehog-base-panel-gravel-board/>.

Increase biodiversity on site with native planting and enhancements

Any new (or strengthened) hedgerows to be planted on site must comprise only native species that provide pollen, nectar and fruit in order to provide a food source for birds, as well as those that provide opportunities for invertebrates. Hedgerows will include a mixture of at least five of the following species; hazel (*Corylus avellana*), holly (*Ilex aquifolium*), hawthorn (*Crataegus monogyna*), elder (*Sambucus nigra*), blackthorn (*Prunus spinosa*), dog rose (*Rosa canina*), wild cherry (*Prunus avium*), field maple (*Acer campestre*) and guelder rose (*Viburnum opulus*). - all to be planted in double rows to ensure a dense hedgerow.

Refer to Landscaping Specification and the Site Layout 001 for full details.

Any hedgerows must be appropriately managed with traditional techniques where possible to maximise their benefit for wildlife using hedge-laying rather than flailing or trimming. If trimming is necessary, ensure it is carried out every 2 to 3 years and in sections so that not all parts of the hedgerow are cut at the same time (except at visibility splays). Flailing must be avoided.

Any proposed trees to be planted must comprise native species which provide foraging opportunities for various invertebrate and bird species.

Planted borders within any landscaped areas must include some night scented flowers to attract moths and other night flying insects (which will provide foraging opportunities for bats). Species should include evening primrose *Oenothera biennis*, sweet rocket *Hesperis matronalis*, honeysuckle species *Lonicera* sp., lavender *Lavendula* sp., white jasmine *Jasminum*

officinale, night-scented catchfly *Silene noctiflora*, night-scented stock *Matthiola longipetala* and soapwort *Saponaria officinalis*.

5. WORK PROGRAMME

The following work programme has been developed to last for five years. However, activities scheduled at regular intervals can easily be extended forward over at least a fifteen-year period.

6.0 Bibliography

Gunnell, K, Grant, G. & Williams, C. (2012). *Landscape and Urban Design for bats and Biodiversity*. Bat Conservation Trust.

Stanbury A. et al (2021). The status of our bird populations; The fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. *British Birds* 114, pp723–747.

The Installation of Lighting Professionals (2018). *Guidance Note 8 – Bats and Artificial Lighting*. <https://www.theilp.org.uk/documents/guidance-note-8-bats-and-artificial-lighting/>.

Operation	Year 1	Year 2	Year 3	Year 4	Year 5
Enhancement features					
Provision of bird boxes on buildings on site.	As soon as possible.	N/ a	N/ a	N/ a	N/ a
Provision of bat box on building on site.	As soon as possible.	N/ a	N/ a	N/ a	N/ a
Habitat management					
Initial planting of trees and hedgerows.	Nov-March	Nov to March: Check and replace any plants that have failed.	Nov to March: Check and replace any plants that have failed.	Nov to March: Check and replace any plants that have failed.	Nov to March: Check and replace any plants that have failed.
Inspect tree/ hedgerow stakes/ ties/ guards and repair/ replace if required.	Monthly	6-monthly	6-monthly	6-monthly	6-monthly
Undertake pruning of young trees, shrubs and hedgerows to encourage good growth and shape.	N/ a	Annually as required Oct-Nov.	Annually as required Oct-Nov. Hedgerows between Oct-Nov.	Annually as required Oct-Nov. No hedgerow trimming	Annually as required Oct-Nov. Hedgerows between Oct-Nov.
Weed control around planted trees/ shrubs/ hedgerows by hand where required.	Monthly between March -Oct.	Monthly between March -Oct.	Monthly between March -Oct.	Monthly between March -Oct.	Monthly between March -Oct.
Plant any public borders with wildlife-friendly plants.	April-September	Check and replace any plants that have failed.	Check and replace any plants that have failed.	Check and replace any plants that have failed.	Check and replace any plants that have failed.
Mitigation measures					

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