

Elmsbrook, Bicester (Phase 3 and 4)

Faunal Enhancement Scheme

(to address Condition 82 of Planning Permission Ref: 10/01780/HYBRID)

Quality Management	
Client:	Crest Nicholson Regeneration
Project:	Elmsbrook, Bicester
Report Title:	Faunal Enhancement Scheme
Project Number:	ECO-5192
File Reference:	5192 Faunal Enhancement Scheme vf/TT/LB
Date:	28/11/2017

Copyright

The copyright of this document remains with Aspect Ecology. All rights reserved. The contents of this document therefore must not be copied or reproduced in whole or in part for any purpose without the written consent of Aspect Ecology.

Confidentiality

This report may contain sensitive information relating to protected species. The information contained herein should not be disseminated without the prior consent of Aspect Ecology. All records of Badger setts must remain confidential. Where this report is circulated publicly or uploaded to online planning portals, reference to Badger setts must be redacted and any maps pertaining to the locations of Badger setts removed from the document.

Legal Guidance

The information set out within this report in no way constitutes a legal opinion on the relevant legislation (refer to the relevant Appendix for the main provisions of the legislation). The opinion of a legal professional should be sought if further advice is required.

Liability

This report has been prepared for the exclusive use of the commissioning client and unless otherwise agreed in writing by Aspect Ecology no other party may use, or rely on the contents of the report. No liability is accepted by Aspect Ecology for any use of this report, other than for the purposes for which it was originally prepared and provided. No warranty, express or implied, is made as to the advice in this report. The content of this report is partly based on information provided by third parties. Unless otherwise stated, information obtained from any third party has not been independently verified by Aspect Ecology.

Contact Details

Aspect Ecology Ltd

Hardwick Business Park | Noral Way | Banbury | Oxfordshire OX16 2AF t 01295 276066 f 01295 265072 e info@aspect-ecology.com w www.aspect-ecology.com

Contents

	V	٠	0
ᆮ	л	L	è

1	Introduction	. 1
2	Faunal Enhancements	. 2
3	Maintenance	. 4
4	Conclusions	. 5

Plans:

Plan 5192/EN1 Ecological Enhancements Plan

Appendices:

Appendix 5192/1 Exemplar Site Wide Enhancements Plan



1 Introduction

- 1.1 Aspect Ecology has been appointed by Crest Nicholson Regeneration in respect of ecological matters relating to land at Elmsbrook, Bicester. The site, which forms Phase 3 and 4 of the Exemplar Phase of the north-west Bicester Eco Town development, is in receipt of full planning permission for residential development (ref: 10/01780/HYBRID).
- 1.2 The permission is subject to a number of planning conditions of which this report is concerned with Condition 82, which states:
 - "Prior to work commencing of a phase, details of a scheme for the location of bat, bird, owl and invertebrate boxes in each phase of development will be submitted to and approved in writing by the Local Planning Authority. The bat, bird, owl and invertebrate boxes shall be installed in accordance with the approved scheme and prior to the occupation of any building on which they are agreed to be located."
- 1.3 As part of the planning application for the Eco Town development, an outline bat, bird and invertebrate enhancement scheme to be implemented across all four Phases was produced (see Appendix 5192/1). This plan forms the basis of this faunal enhancement scheme for Phases 3 and 4, although some variations are proposed to maximise opportunities for wildlife.
- 1.4 On this basis, a number of bat, bird, owl and invertebrate boxes will be incorporated into the development relating to Phases 3 and 4, the design, specifications and proposed positions of which, are provided below and on the accompanying plan (Plan 5192/EN1).

November 2017 1 | Page



2 Faunal Enhancements

2.1 The faunal enhancement scheme will comprise the erection of 16 bat boxes, 17 bird boxes and 25 invertebrate boxes / hotels within suitable habitat within the development (as shown on Plan 5192/EN1). In this regard, the bat and bird boxes will be concentrated around the edge of the development in order to be in close proximity to areas of open space and linear features, which provide foraging opportunities and good connectivity to the wider landscape, whilst invertebrate enhancements will be situated within areas of open space particularly in areas of wildflower grassland, which will provide a ready source of pollen and nectar.

Bats

- 2.2 A total of 16 bat boxes will be installed throughout the site, which will be affixed to, or incorporated into, external walls, or positioned on trees (as shown on Plan 5192/EN1). These will include three different designs, including those that can be incorporated within the walls of newly built properties such that roosting opportunities are provided for a variety of bat species. The specifications for these bat boxes are provided below:
 - Schwegler 1FR Bat Tube (or similar): Six bat tubes will be installed on the external
 walls of buildings, either flush or beneath a rendered surface, allowing for discrete
 roosting opportunities to be provided. This unit is particularly suited to bats that
 typically roost in or around buildings;
 - Schwegler 2F Bat Box (or similar): Five 2F bat boxes (or similar) will be mounted to the external walls of buildings, providing roosting opportunities that are particularly attractive to smaller species of British bats such as Soprano Pipistrelle Pipistrellus pygmaeus, which is a UK Priority Species; and
 - Schewgler 1FD Bat Box (or similar): Five 1FD bat boxes (or similar) will be positioned on trees throughout the development. This box is specifically designed for smaller bats such as Soprano Pipistrelle or Brown Long-eared Bat *Plecotus auritus*.

Birds

- 2.3 The scheme submitted as part of the initial planning application for the Eco Town development did not include provision for bird boxes to be incorporated into phases 3 and 4 of the development (see Appendix 5192/1). However, in order to enhance opportunities for birds within Phases 3 and 4, Aspect Ecology propose 17 bird boxes be positioned on external walls and trees within the development area (as shown on Plan 5192/EN1). Specifications for these bird boxes are provided below:
 - Barn Owl Box: Given the known presence of a Barn Owl roost in the wider surrounds of the site, a single Barn Owl box will be erected on a suitable tree at the north west of the site in order to increase nesting opportunities for this species within the site (if no suitable trees are present in this locality, other locations will be explored). The lightweight and robust design of this box is ideal for providing a long lasting roosting opportunities for this species;
 - Schwegler 1SP Sparrow Terrace (or similar): Four Sparrow terraces will be
 incorporated into the development to provide nesting opportunities for this UK
 Priority Species. The design of this box allows it to be mounted to the external surface
 of buildings, or incorporated within brickwork;

November 2017 2 | Page



- Schwegler No. 16 Swift Box (or similar): Four Swift boxes will be incorporated into the development to provide nesting opportunities for this declining urban bird species. As with the Sparrow Terrace boxes above, these boxes can be attached to the external surface or built into external walls of buildings;
- Schwegler 9A House Martin Nests (or similar): Four House Martin nests will be
 erected on external walls of newly built houses to provide nesting opportunities for
 this UK Priority Species. These nests should be erected as high up as possible,
 preferably at the eaves; and
- Schwegler 3S Starling Nest Box (or similar): Four 3S Starling nest boxes (or similar) will be erected on trees throughout the site providing nesting opportunities for this UK Priority Species. The larger opening found on this box is ideal for Starlings, but also allows access for other larger birds, such as an overnight shelter for Lesser Spotted Woodpecker *Dryobates minor*, another UK Priority Species.

<u>Invertebrates</u>

- 2.4 A total of 25 invertebrate boxes will be installed throughout the site, comprising 18 insect towers, five insect totems and four insect hotels. These will be positioned south facing on trees throughout the site and within areas of wildflower grassland (as shown on Plan 5192/EN1). Specifications for these units are given below:
 - Vivara Pro Insect Hotel Corsica (or similar): The multiple floors and variety of shelter types provided by this hotel attracts a range of harmless invertebrates, including solitary bees, butterflies, and beetles. The insect hotels are of a free standing design ideal for positioning within wildflower grasslands, aiding the pollination and consequently the establishment of these habitats. Signage and information boards will be provided in open space areas so as to engage and educated new residents of the importance and value invertebrates provide in a healthy ecosystem.
 - Invertebrate Tower: The different floors of this tower offer a variety of opportunities
 for a range of harmless invertebrates. These towers will be positioned on trees
 throughout the development thereby aiding to increase biodiversity throughout the
 site.
 - **Invertebrate Totem**: The holes of varying sizes present within this pole offer nesting opportunities for a variety of harmless invertebrates such as solitary bees. These will be erected within areas of wildflower grasslands.

November 2017 3 | Page



3 Maintenance

3.1 All the items listed above are made from hardy materials, such as woodcrete (a mixture of sawdust clay and concrete), or wood treated with a non-toxic water repellent finish, making for durable long-lasting products. Accordingly, these faunal enhancements should not require any regular management, although monitoring will be carried out by the appointed management company on an annual basis, in conjunction with general site maintenance. Repairs or replacements will be undertaken as required.

November 2017 4 | Page



4 Conclusions

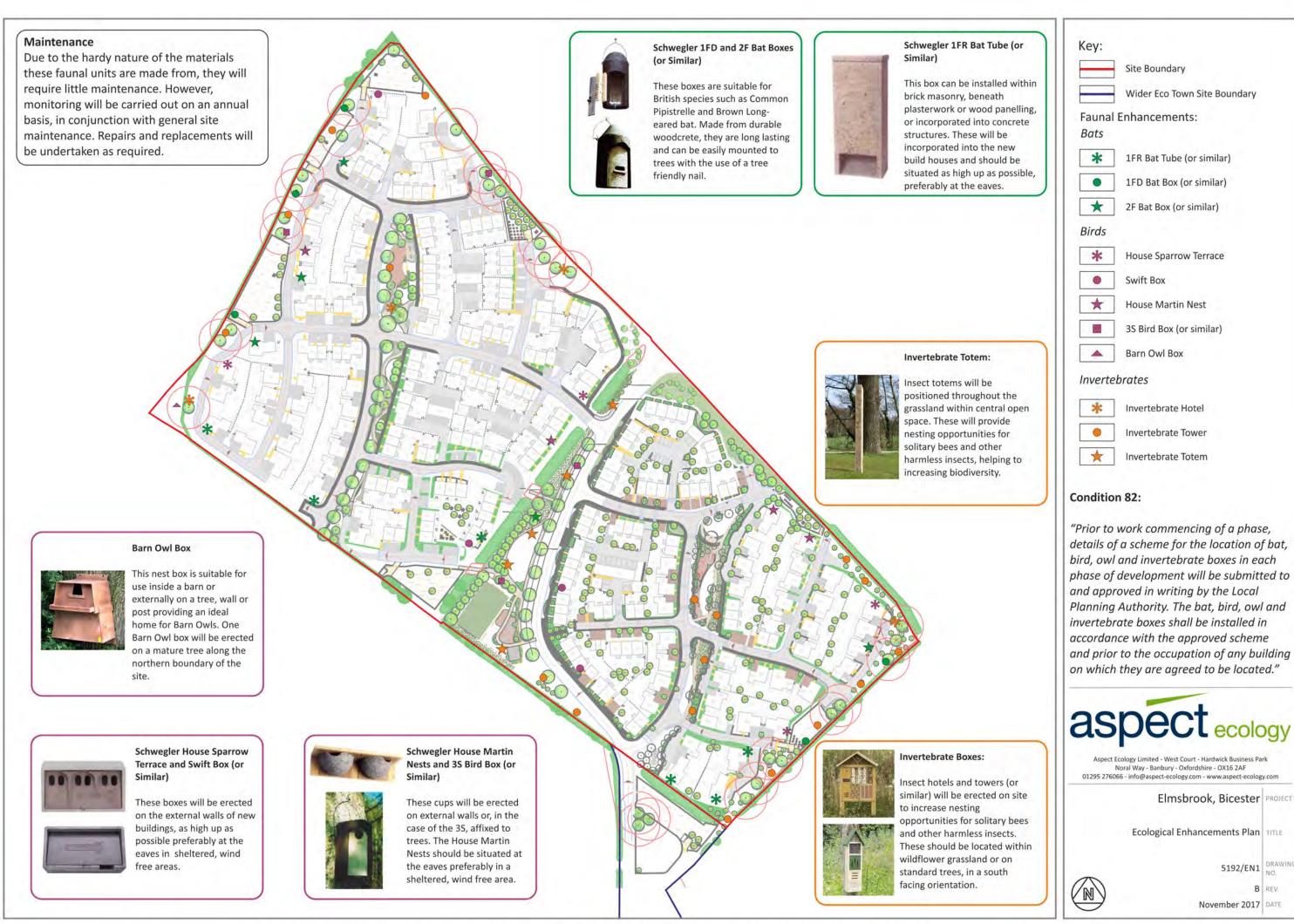
- 4.1 The purpose of this report and the attached plan is to discharge Condition 82 of full planning permission relating to land at Elmsbrook, Bicester (ref: 10/01780/HYBRID).
- 4.2 A variety of nesting and roosting units will be incorporated into the scheme, the specification and location of which are set out in this report. Such features will maximise opportunities for a diverse range of species of bats, birds, and invertebrates within the development, including a number of declining and UK Priority Species.

November 2017 5 | Page



Plan 5192/EN1:

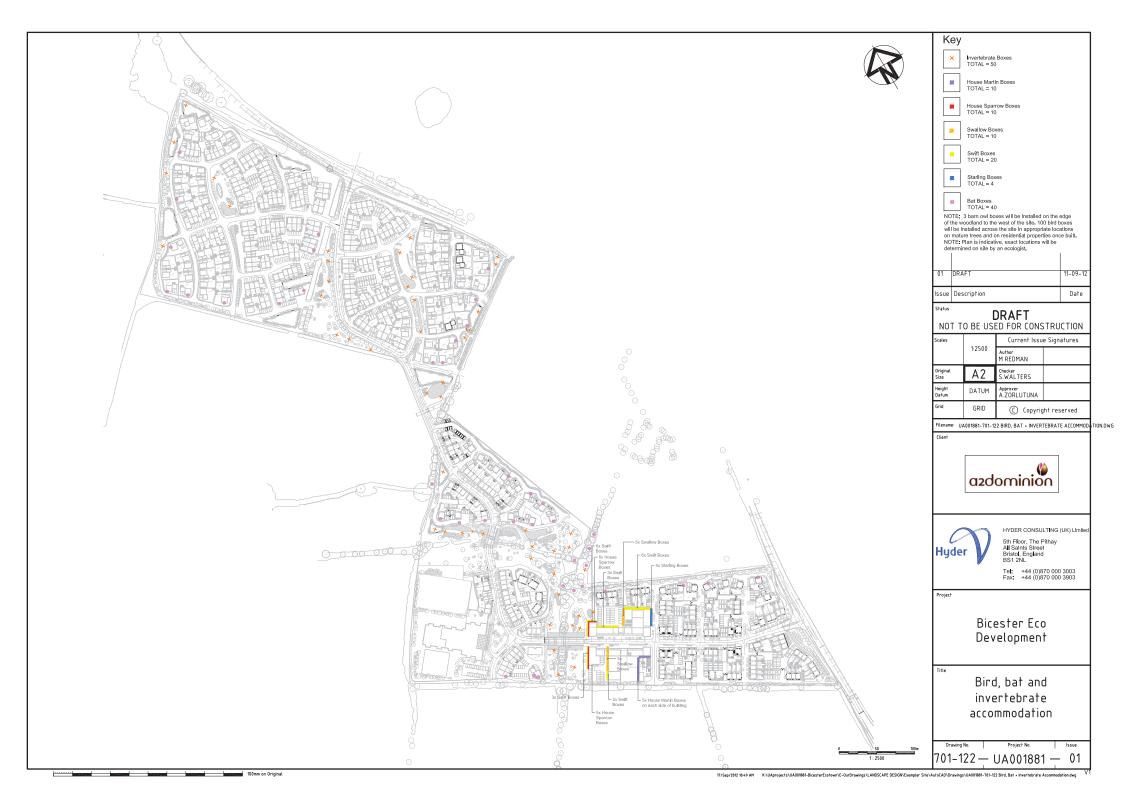
Ecological Enhancements Plan





Appendix 5192/1:

Exemplar Site Wide Enhancements Plan



landscape planning • ecology • arboriculture



Aspect Ecology Ltd

West Court Hardwick Business Park Noral Way Banbury Oxfordshire OX16 2AF

- T: 01295 276066 F: 01295 265072
- E: info@aspect-ecology.com
- W: www.aspect-ecology.com