

Edwards Ecology



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N / 111853 / F

Ecological Report
 May 2011

Lower Castleton
 Westhide
 Herefordshire
 HR1 3RF

Compiled by:
 Louise J Scott BSc & Alan Edwards

Incorporating Great Crested Newt Survey
 by Nigel Hand Central Ecology

HEREFORDSHIRE COUNCIL
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Ecological and Environmental Surveying: Bats in buildings, bridges and trees : Thermal Imaging :
 Licence holders for Natural England & Countryside Council for Wales: IEEM Affiliate.



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Central Ecology – report by Nigel Hand

Lower Castleton great crested newt population assessment and mitigation strategy... 31



A. EXECUTIVE SUMMARY

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Daniele and Rachael Manacchini – Godfrey are the owners of, and reside at, Lower Castleton, Westhide, Hereford, HR13RF. The property is a grade 11 Listed Farmstead set in farmland between Ocle Pychard and Westhide.

To date the owners are part way through a sympathetic scheme of works to bring the main house and grounds back to their former glory. The next phase is the restoration of the adjoining hop kilns and other buildings to enable the owners to set up and run a high quality food workshop alongside their existing successful family business, and to provide accommodation on site for those requiring overnight stays.

As part of the planning application process there is a need for an Ecological Survey of the property and Edwards Ecology were commissioned to carry this out and produce a report for submission with the other necessary documentation.

The Ecological Survey took the form of an initial inspection of the site and buildings for signs of European Protected Species. This was followed by a great crested newt population assessment and mitigation strategy, which was undertaken by Nigel Hand of Central Ecology with the assistance of Alan Edwards.

Two dusk, and one dawn surveys for bats were undertaken by the Edwards Ecology team of surveyors on the 12th May 2011, 2nd June 2011, and the 21st June 2011 respectively. A detailed inspection of the buildings for evidence of bats was also undertaken.

The results of the survey for great crested newts at Lower Castleton were very poor. Following the Natural England guidelines for great crested newt population size class would deem it a small population as it is under 10 adults. It is the view that no mitigation licence for GCN's is required but there are recommendations and a mitigation strategy, and these are fully detailed in the Central Ecology report which is reproduced in full within this document (Appendix 2A.)

The results of the bat surveys and inspection undertaken at Lower Castleton show that there is a healthy number of Pipistrelle bats visiting the site to forage over the ponds and around the buildings. Some of these were seen to occasionally enter the buildings to forage inside, and the droppings found are indicative of this behaviour.

But no bats were found to be using the internal spaces for roosting. During the dawn swarming survey just three common pipistrelles were seen entering the structure. Two of these entered under the slates midway along the road elevation of the barn, and one squeezed between the slates on the gable end.

It is our view that the conversion and restoration of the building, if carried out at the appropriate time of year, will not impact upon bats, and therefore no mitigation licence is required. We do have recommendations that will need to be addressed and these are fully detailed in our report.

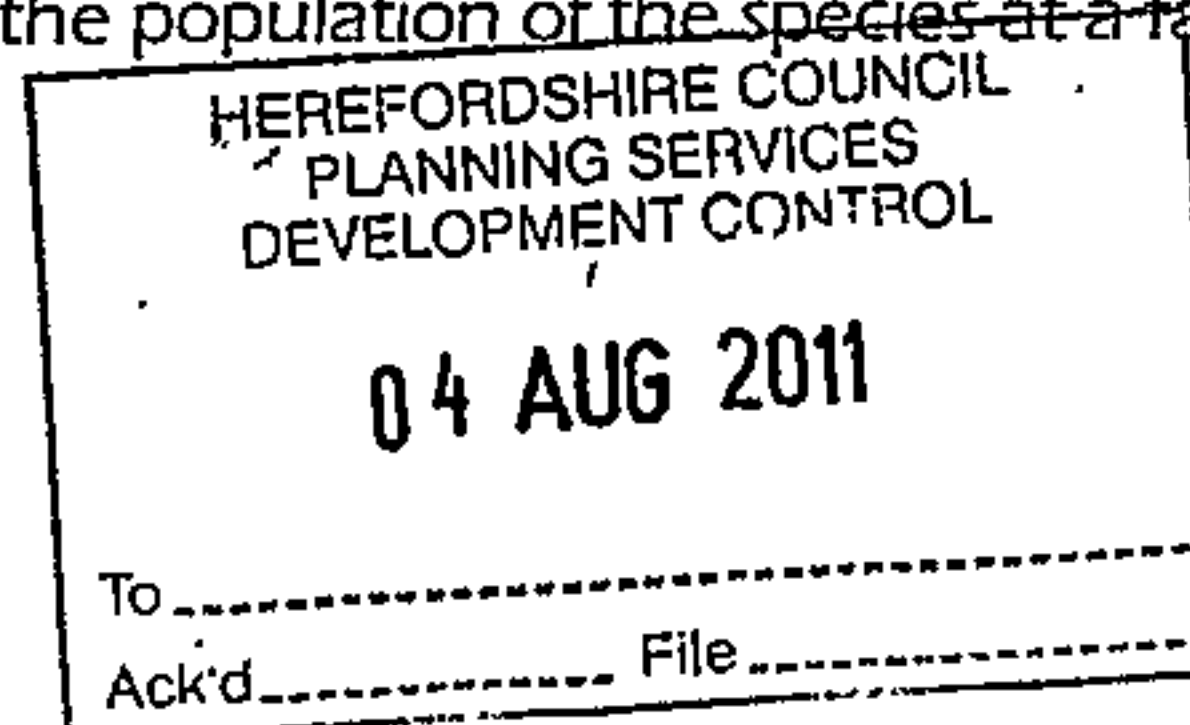
The architectural drawings incorporate a number of bat friendly features into the design and should encourage greater use of the buildings by a variety of bat species in compliance with The Conservation of Habitats and Species Regulations 2010.

The buildings at Lower Castleton are in need of restoration. Without development they will fall into disrepair and lose any usefulness to bats. Conversion as proposed will secure their future and gives consideration to Regulations

*53 (9) (a) and **53 (9) (b) of the above.

*The Conservation of Habitats and Species Regulations 2010 Regulation 53 (9) (a) "there is no satisfactory alternative"

** The Conservation of Habitats and Species Regulations 2010 Regulation 53(9) (b) "The action authorised will not be detrimental to the maintenance of the population of the species at a favoured conservation status in their natural range."





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B INTRODUCTION

B.1 Background to development

Lower Castleton is a registered Smallholding comprising a substantial farmhouse, attached hop kilns, another lesser ancillary building, all set in more than ten acres of land. The owners have embarked on a programme of works to restore the buildings to prime condition and to bring the land back into useful production.

The property is already partly self-sufficient and is producing organic meat and fresh produce for family needs. Now the owners wish to move on to the next stage by developing a gastronomic cottage industry. This will require the hop kilns and ancillary building to be renovated and converted as per the planning drawings and Design and Access Statement. The existing buildings and the proposals cover the same footprint so there are no changes to the size or scale of the property.

Details of the proposed works.

These are specified in detail in the above mentioned Design and Access Statement. Briefly it encompasses the following.

Repairs, where necessary, to the fabric of the buildings and repointing, etc. Stripping of roofs, repairs as necessary to roof structures and recovering with slate etc. Installation of new windows and roof lights as required together with installing new hop kiln cowls.

Internal works call for new stairs, bathrooms, flooring repairs, new electric and plumbing systems, erection of walling, installation of kitchen, washrooms and toilets, final fix joinery and decoration etc.



C. SURVEY AND SITE ASSESSMENT / 111853 / F

C.1 Pre-existing information on the bat species at the survey site.

A request to the Herefordshire's Biological Records Centre for bat records within 2 km of the site produced records for Lower Castleton summarised below. The most recent records to date are 2007 and only one roosting record exists (3 bats recorded) located nearly a kilometre away NNW. The status of this roost is unknown.

Refer to Appendix 1A for full Biological Records Report.

Table 1 Local bat records data search

Species	Date	Number	Grid Ref.	Notes/Activity
Long-eared bat <i>Plecotus</i>	2007	>3	SO5846	Dead
Long-eared bat <i>Plecotus</i>	2007	>3	SO58914736	Roosting
Common Pipistrelle	2007	>7	SO589473	Feeding
Long-eared bat <i>Plecotus</i>	2007	>3	SO589473	Feeding
Soprano Pipistrelle <i>Pipistrellus pygmaeus</i>	2007	>2	SO589473	Feeding
Unidentified Bat <i>Chiroptera</i>	2007	>2	SO589473	Feeding
Bats <i>Chiroptera</i>	2006	>1	SO597460	Droppings
Bats <i>Chiroptera</i>	2006	>2	SO597460	Present
Common Pipistrelle <i>Pipistrellus pipistrellus</i>	2006	>2	SO597460	Present
Common Pipistrelle <i>Pipistrellus pipistrellus</i>	2006	>2	SO597460	Present
Common Pipistrelle <i>Pipistrellus pipistrellus</i>	2006	>1	SO597460	Droppings
Long-eared bat <i>Plecotus</i>	2006	>1	SO597460	Present
Long-eared bat <i>Plecotus</i>	2006	>1	SO597460	Droppings
Soprano Pipistrelle <i>Pipistrellus pygmaeus</i>	2006	>1	SO597460	Present
Unidentified Bat <i>Chiroptera</i>	2006	>1	SO597460	Present
Unidentified Bat <i>Chiroptera</i>	2005	>1	SO58904737	Present Droppings
Unidentified Bat <i>Chiroptera</i>	2005	>1	SO589474	Droppings
Bats <i>Chiroptera</i>	1984		SO591474	Present



C.2 Status of species

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Common Pipistrelle (*Pipistrellus pipistrellus*)

Nationally, "Native, common across UK...Population estimate: UK 2,430,000" * and it is also thought to be common throughout the county and the region. The status of this species locally is less certain due to under-recording, but the National Bat Monitoring Programme has reported an increasing (although fluctuating) trend in the UK population. **

(See appendix 1A for Status Abbreviations ***) Bern2, CMS_A2, HabRegs2, HBAPCC, HBAPPS, HSD4, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b

Soprano Pipistrelle (*Pipistrellus pygmaeus*)

Nationally, "Native, common across UK...Population estimate: UK 1,300,000" * The National Bat Monitoring Programme has reported an increasing, stable trend in the UK population. **

(See appendix 1A for Status Abbreviations ***) Bern2, CMS_A2, HabRegs2, HBAPCC, HBAPPS, HSD4, Sect.41, UKBAP, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b

Brown Long-eared Bat (*Plecotus auritus*)

Nationally, "Native, common...Population estimate: UK 245,000" *. There are no local records available ***

(See appendix 1A for Status Abbreviations ***) CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b

* Jessamy Battersby (Edited and compiled), (2005), UK Mammals: Species Status and Population Trends, JNCC/Tracking Mammals Partnership 2005, ISBN 1 86107 568 5

** Herefordshire & National Biodiversity Action Plan

*** Herefordshire Biological Records Centre

**** National Bat Monitoring Programme Population Trends 2008

C.3 Objectives of the survey

The survey was undertaken to determine the presence/absence of bats and the possible bat usage of the site for night roosts, maternity, hibernation, foraging, and commuting etc. Flight paths and commuting routes to foraging areas were also explored. The conservation value and level of importance of the site to each bat species was also assessed. The resulting information will be used to aid development of the Whittlebury Barn site in meeting the requirement to enhance the ecological and wildlife value for the future.

C.4 Plan/Map of survey area

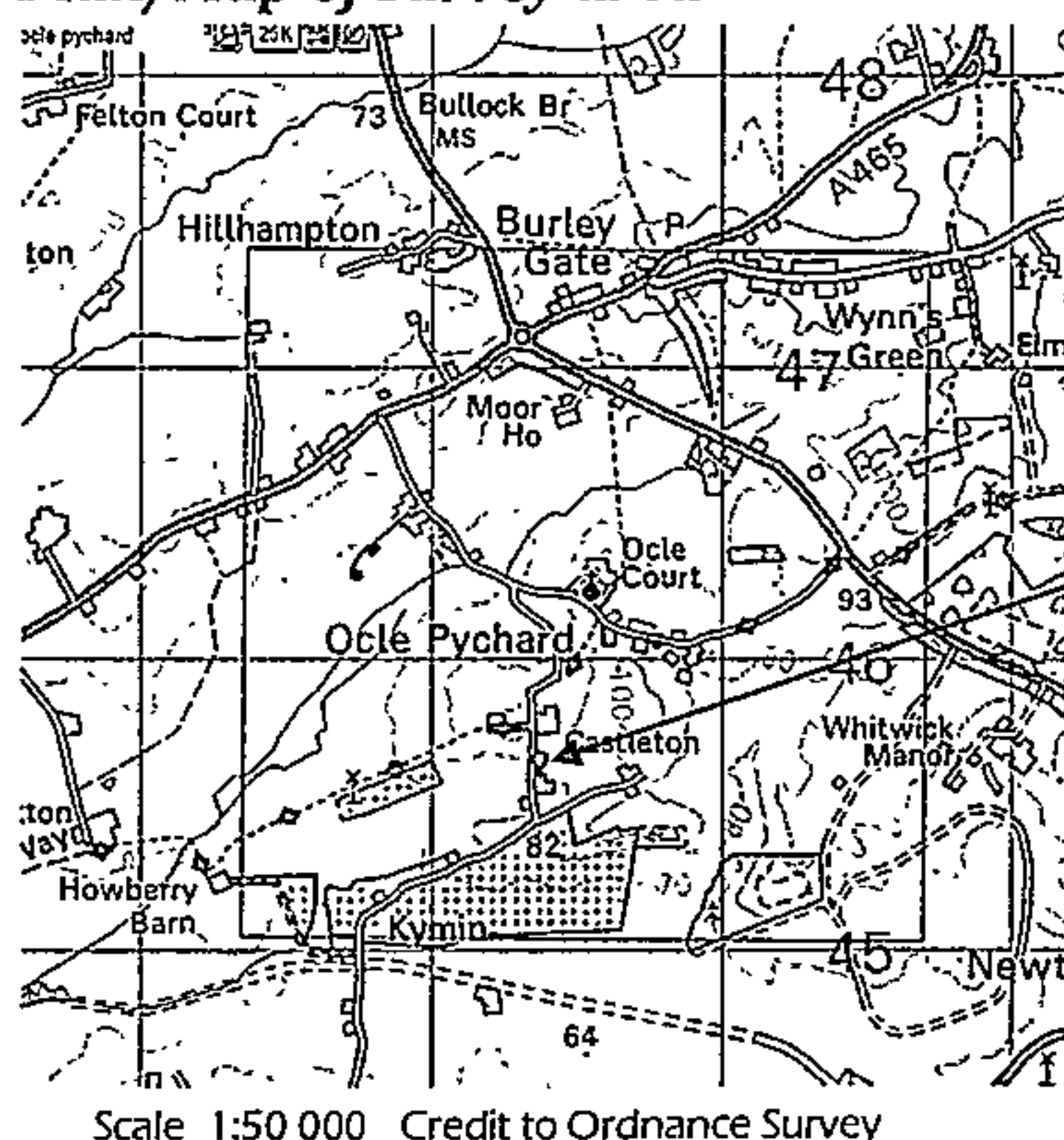


Figure 1. OS Location of Lower Castleton



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C.5 Site / habitat description



Lower
Castleton

Credit Google

Figure 2. Aerial view illustrating landscape features near Lower Castleton

Lower Castleton is located approximately 8 miles North East of Hereford. The property lies between the hamlets of Westhide and Ocle Pychard and can be accessed via minor roads off the A417 and A465. The Barn extends from the South side of the Main House on ground which gently slopes South West. A small series of ponds lie along the Eastern boundary. The immediate area is predominantly arable with some orchards and permanent grazing.

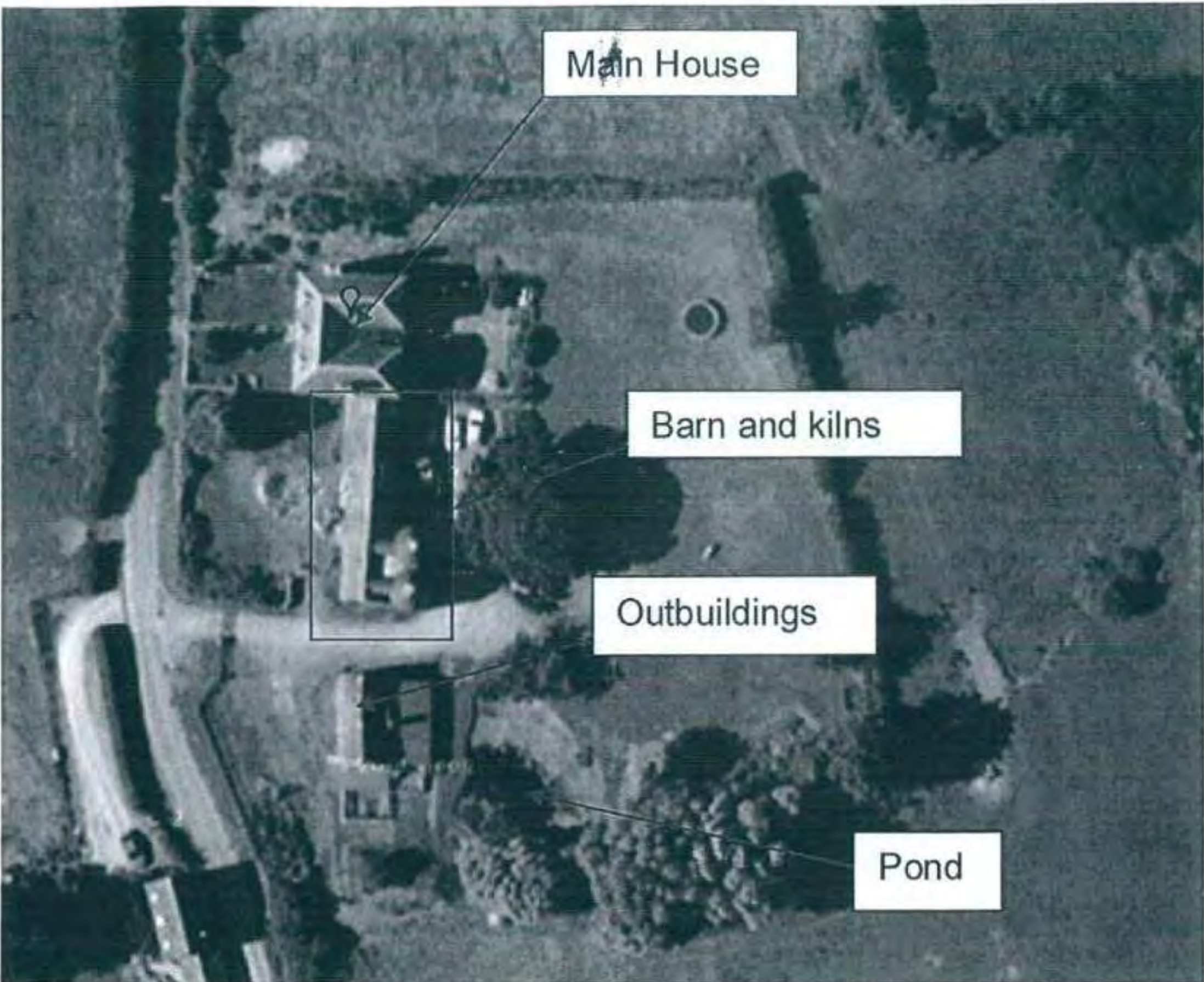
There are four locally designated sites within 2KM of Lower Castleton. The old canal at Monkhide about ½ km to the South East is a nearby body of water with good wooded margins. Three ancient woodlands lie to the South and South East and there is good connectivity from the site into the woodlands and the surrounding countryside for birds and bats.

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Site Buildings

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Credit Google

Figure 3. Aerial view of buildings at Lower Castleton



Figure 4. Eastern face of Lower Castleton main house and adjoining barn buildings with kilns



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Figure 5. Eastern face of Lower Castleton and entrance to barn buildings



Figure 6. South face of Lower Castleton barn and kiln



Figure 7. West face of Lower Castleton barn buildings with outbuildings across the track



Figure 9 & 10 . Northward face of outbuildings with track separating the building from the barn and main house



Figure 11. Lower level in the barn looking north with ladder access to upper level

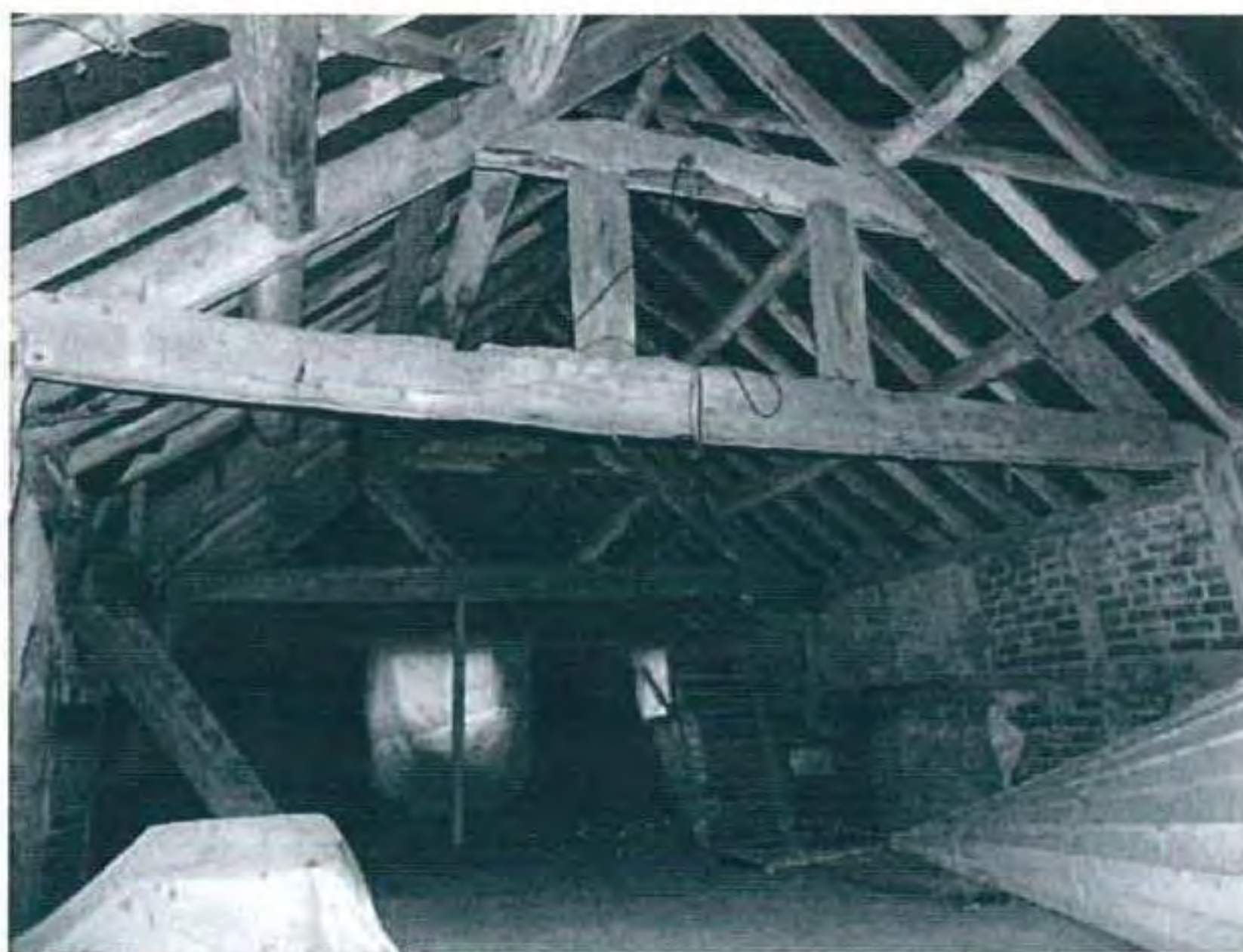


Figure 12. Barn upper level looking south with trussed roof .



C.6 Field surveys

Visual inspection.

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An inspection was carried out on the 21.06.2011 and the barns at Lower Castleton were examined both internally and externally. The inspection was undertaken in accordance with The Bat Conservation Trust "Good Practice Guidelines Bat Surveys"

Equipment used and at hand included: -

- Aluminium extension ladders to 5m;
- Aluminium steps;
- Cluson 1m candlepower and other torches, head torches etc;
- Swift binoculars;
- Ridgid Sea Snake endoscope with extensions and accessories;
- Flexible mirrors.

During the inspection the barns at Lower Castleton were thoroughly searched for potential access points and roosting opportunities. Roof and wall structure crevices and cavities were checked inside and outside the property.

Evidence searched for to indicate use by bats included: -

- The presence of free-hanging bats and bats within voids and crevices;
- Bat droppings
- Urine-stains
- Rub-marks in wall holes, timber joints, including around window and door frames
- Feeding-remains e.g. moth wings.

Emergence surveys.

Two evening emergence surveys were conducted on the 12.05.2011 and 02.06.2011. Three observers were present at both surveys (See Appendix 6A for Personnel)

The first emergence survey commenced at 20.15 and finished at 22.15. The second survey commenced at 21.00 and finished at 23.20. The weather on both occasions was fine, dry, warm with a negligible breeze, and so was suitable for bat emergence and foraging (refer to Table 2 below).

The equipment used for the survey included: -

Batbox Duet (frequency division and heterodyne bat detector)
Magenta 4 (heterodyne bat detector)
Magenta Bat Mark 11B (heterodyne bat detector)
Zoom H2 Digital Recorder.
Anabat SD2
Analook (sound analysis software)

An AnaBat SD2 (frequency division automated recording static bat detector) was positioned on the upper level for both dusk surveys. Sited at the North end of the building on the 12.05.2011 and towards the South end of the building on the 02.06.2011.

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Dawn/ swarming survey.

Three observers were present at the dawn survey, positioned at the NW, E, and SE parameters of the Barn. The weather was recorded as 14°C; 1 on the Beaufort scale; 90% Cloud cover, and precipitation described as spitting at 03.59. The dawn swarming survey commenced at 03.10 and finished at 05.00. The Anabat



was used externally at the North end of the West face during the dawn survey.

Survey summary

Table 2 Survey weather conditions

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Survey	Date	Timings	Weather
Visual inspections	21.06.2011	05.00 -06.15	Spitting then dry.
Emergence	12.05.2011	20.15 – 22.15	12-9°C ; 0 Beaufort Scale; no Cloud cover; Dry.
Emergence	02.06.2011	21.00 - 23.20	18°C; 0 Beaufort Scale; 10% Cloud cover; Dry.
Dawn swarming	21.06.2011	03.10 - 05.00	14.8°C; 1 Beaufort Scale; 90% Cloud cover; Spitting

Constraints

There were no major constraints. Evidence for some crevice dwelling bats can be difficult to find. Nocturnal surveys were therefore used to check for emerging bats that may have been beyond the capabilities of the endoscope during the visual inspections.

C.7 Survey results.

Results from visual inspection at Lower Castleton

No free-hanging or crevice dwelling bats were found on the day of the inspection.

During the internal inspection on the 21.06.2011 the potential for bats was found to be high. Access points were freely available under the eaves; via the kiln area; and the unglazed south facing window on the upper floor. Internal wooden beams and connecting woodwork offered mortice gaps. There was some evidence of bat droppings scattered on the upper floor of the barn. The low number of droppings was insufficient to sample. A butterfly wing was found on the upper level and swallows were also using the barn.

During the external inspection of the barn buildings the potential for bats was also found to be high. Gaps and crevices within the stonework on both the west and east side of the barn offered potential bat roosting opportunities. Other possible features that would be attractive to bats include the weathered wood within the brickwork face and free access to roof space and fabrics.

Emergence and dawn survey results

Table 3 Survey Results

Survey 1 Summary		Dusk Emergence 12.05.2011		
Time	Species	Number	Building	Activity
21.25 to 21.48	Common pipistrelle <i>Pipistrellus pipistrellus</i>	>8	Barn	Foraging over pond and around the E side of the barn. Observed commuting up and down the driveway around the barn.
21.24 to 21.57	Pipistrellus spp	>9	Barn	Foraging over pond and commuting along driveway. One seen flying over the roof and into tree on the E side of building.

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Survey 2 Summary		Dusk Emergence 02.06.2011		
Time	Species	Number	Building	Activity
21.55 to 22.06	Common pipistrelle <i>Pipistrellus pipistrellus</i>	>6	Barn	Foraging activity over the roof and around the building. Coming from and returning W towards the fields.
22.31 to 23.08	Soprano pipistrelle <i>Pipistrellus pygmaeus</i>	>5	Barn	Foraging over lawn and along the driveway. Flying between the pond and fields to the W.
21.46 to 22.54	Pipistrellus Spp	>37	Barn	Mainly foraging activity recorded coming from upper storey main house area. Foraging around building, kilns, lawn, garden, trees and pond area.
22.03 to 22.57	Unidentified Bat <i>Chiroptera</i>	>6	Barn	Some foraging and commuting activity around the E face of the barn at the N end. One bat came over the roof and flew W into fields. Observed around outbuildings S of barn and pond.

Survey 3 Summary		Dawn Swarming 21.06.2011		
Time	Species	Number	Building	Activity
03.17 to 04.23	Common pipistrelle <i>Pipistrellus pipistrellus</i>	>8	Barn	Foraging activity primarily over pond and around trees to the E of the building. One bat seen to roost under slate at RH apex on the S face.
04.14 to 04.23	Soprano pipistrelle <i>Pipistrellus pygmaeus</i>	>1	Barn	One bat circled on lawn and flew over roof to SE.
03.22 to 04.01	Pipistrellus Spp	>9	Barn	Primarily heard commuting along track area. Two bats seen to roost, circling then entering W face of building in gap under eaves at junction of brick to stone.
03.54	Unidentified Bat <i>Chiroptera</i>	1	Barn	Brief call heard on the W side of the building but not seen.



Figure 13. Dawn survey bat entry point



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Figure 14. Dawn survey bat entry point



AnaBat results

The AnaBat system was used to assist in detecting and analysing bat echolocation calls with a zero crossing analysis interface module. Recordings were made and logged on 12.05.2011; 02.06.2011 and 21.06.2011. The Anabat logged three *Pipistrellus* species calls on the first survey and 4 with social calling during the second survey. The dawn recordings taken externally totalled 24 passes, all from *Pipistrellus* *Pipistrellus*.

Species

Table 4 Anabat Results

Species
Common pipistrelle <i>Pipistrellus pipistrellus</i>
<i>Pipistrellus spp</i>

Appendix 4A Examples of Sonograms

C.8 Interpretation / evaluation of survey results

The surveys were carried out during a period of optimum weather conditions with the site offering numerous opportunities for roosting bats. The evaluation of the survey can only reflect the evidence encountered on the dates of the site visits and building inspection. As surveys were not carried out during other times of the year, the data should be interpreted with caution and represents an indication of usage and species present

Pipistrelle (*Pipistrellus* species)

Echolocation calls were heard and recorded during all three surveys. Seen and heard foraging around the. building, kilns, lawn, garden, trees and pond area.. Commuting was primarily between the field systems to the West along the access driveway and the pond area. Seen coming from the upper storey of the main house during the second survey. At the dawn survey, two bats were seen to roost at the same location. They circled then entered the West face of the building via a gap under the eaves at the junction of brick to stone. Another bat was seen to roost under a slate at the right hand apex on the S face.



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D Conclusions

Based on the recent bat survey work undertaken by Edwards Ecology at Lower Castleton, Westhild, the following conclusions can be drawn.

No bats were utilising the buildings for roosting or other purposes that would require a Natural England Mitigation Licence, therefore no application is necessary.

Evidence of great crested newts were found at the site. This is fully covered in the Central Ecology report which is reproduced in full elsewhere within this document. The conclusions and subsequent mitigation strategy must be strictly adhered to.

No evidence of any other European Protected Species was uncovered during the survey visits. Should any be discovered during the course of the works at Lower Castleton then all works must cease immediately and advice sought from Edwards Ecology in the first instance.

E Recommendations.

A suitably qualified Ecological Clerk of the Works must be in attendance when any roof stripping or works to the external fabric of the buildings is being carried out.

Before any repointing of stonework is carried out any holes or crevices must be inspected by a suitably licensed person to avoid the accidental entombment of bats.

A full working method statement and timetable of works must be drawn up and approved by the planning authorities before any works to the buildings can be carried out.

E.1 Contingency plan.

If at any time during the works a bat or bats are discovered all works MUST cease immediately. Contact in the first instance should be made with Edwards Ecology (01531 660719. 07531 216837) for initial advice and guidance.

If contact cannot be established then use should be made of the Bat Conservation Trust Helpline on 0845 1300 228 ,who will advise on the best course of action.

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F REFERENCES:

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<http://naturalengland.communisis.com/naturalenglandshop/docs/IN13.6.pdf>

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Natural England; The National Trust; English Nature partnership 2009 Bats in Traditional Buildings.

The Conservation of Habitats and Species Regulations 2010

Google maps and images



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G ANNEXES

- Appendix 1A. Biological Records
- Appendix 2A Central Ecology - Great Crested Newt Population Assessment and Mitigation Strategy.
- Appendix 3A Bats and the Law
- Appendix 4A Examples of sonograms
- Appendix 5A Practical advice on how to encourage access for bats
- Appendix 6A Personnel
- Appendix 7A Survey collation sheets

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Appendix 1A

Herefordshire Council PO Box 230, Hereford, HR1 2ZB.

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Alan Edwards
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Much Marcle
Ledbury
Herefordshire
HR8 2NU

21st June 2011

Our reference: 1539

Dear Alan

lower castleton, Westhide – so594456

SPECIES RECORDS

Further to your request, I have conducted a search of the database for the area you identified. These records are attached along with a map indicating their distribution.

Grid references containing a combination of letters and numbers, for example 'SO54E' are formulated according to the **DINTY** system. Such records are often from botanical recording, whereby a 10km square is divided into twenty-five equal 2km x 2km squares, each alpha-coded, thus:

E	J	P	U	Z
D	I	N	T	Y
C	H	M	S	X
B	G	L	R	W
A	F	K	Q	V

Therefore the correct full grid references for SO54E are as follows: SO5048, SO5049, SO5148 and SO5149 i.e. four 1km squares.

DESIGNATED SITES

In addition I have produced a map indicating locally designated sites and have provided register details for the relevant sites:

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SO54/09 Woodland on Shucknall Hill SWS

The register states: "Westhide Wood. Withington and Staples Hole Coppices. Hillend Grove. Rough Plantation. An ancient woodland with some larch and sweet chestnut. Oak is the dominant tree, with hazel coppice. The ground flora includes deadly nightshade and wild daffodil. The track up to the wood from 589427 has a rich limestone flora."

Date 1990

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SO64/01 Ash Coppice SWS

The register states: "An ancient wood with a belt of conifer.

Oak and ash are dominant, with hawthorn and holly under storey."

Date 1990

SO64/02 Old canal at Monkhide SWS

The register states: "An area of open water with a good wooded margin, including ash, elm, willow, hazel and hawthorn."

Date 1990

SO64/03 Cowarne Wood SWS

The register states: "An ancient woodland with some interplanting.

Birch, ash and oak are the most common species, and bluebell is present in the ground flora."

Date 1990

Please keep location details of any bat, badger or newt records confidential. Please get in touch if you have any queries.

I hope that this information proves to be useful. I look forward to receiving new findings and biological records which any survey you undertake yields: this will help us to improve the information available for natural heritage conservation, research, advice, education and public information.

Yours sincerely,

Emma Wall
Ecologist (HBRC)
Encs.

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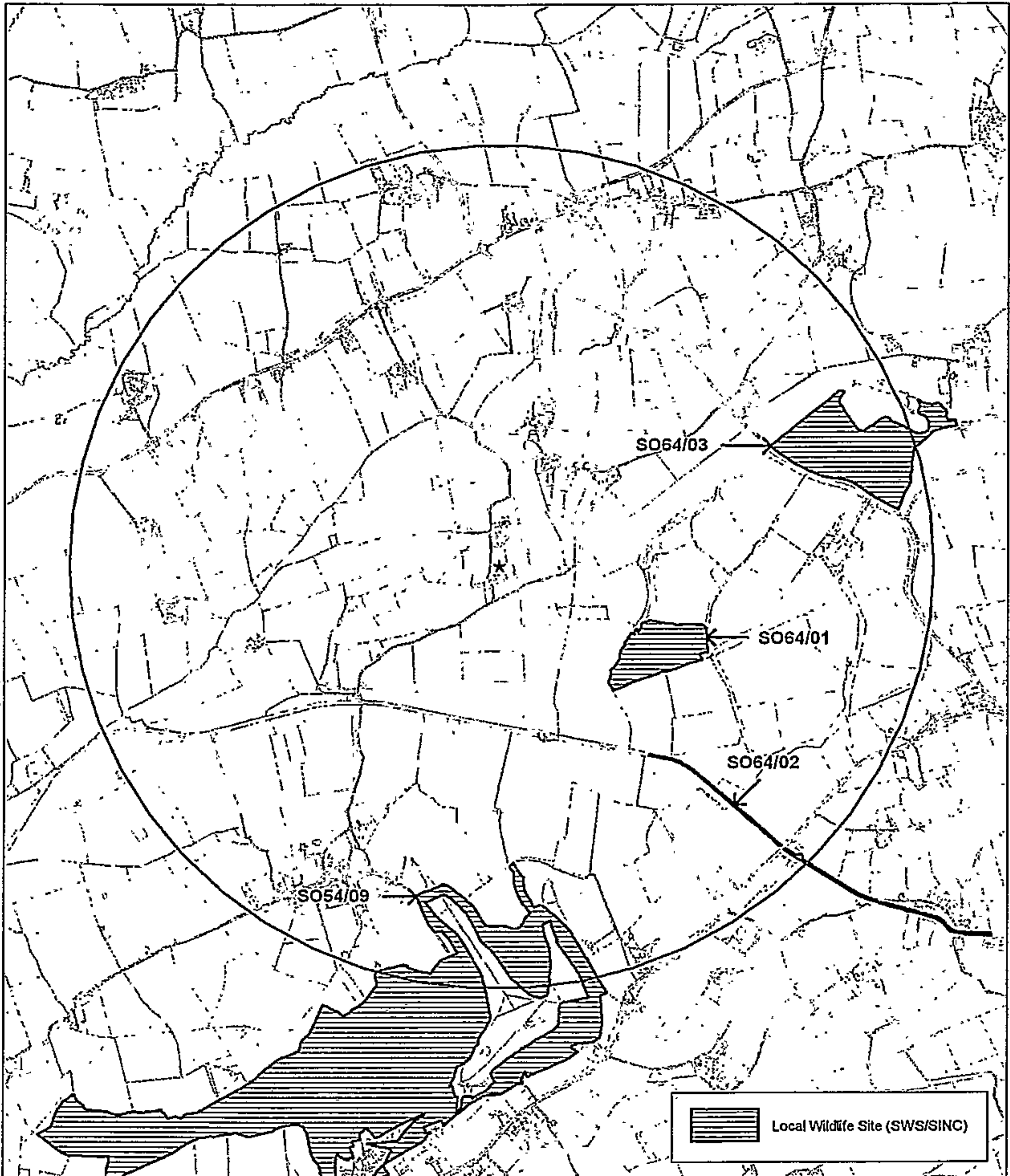
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Terms and Conditions for the supply of data

1. Copyright of all records remains with the recorder, and of the collated data with Herefordshire Biological Records Centre.
2. No copies of data are to be made for use by third parties, without written permission from Herefordshire Biological Records Centre.
3. Permission must be obtained in writing from Herefordshire Biological Records Centre if the data supplied is to be used for any other purpose than that described on the Data Request Form.
4. Data are provided subject to ongoing approval for use from individual recorders, local recording groups or national recording schemes. Should such providers of data withdraw permissions for use of these data, the requestor may be obliged to remove relevant data from records.
5. The data must not be entered onto a computerised database or GIS without permission from Herefordshire Biological Records Centre.
6. Herefordshire Biological Records Centre shall be acknowledged in any report relating to data supplied, and we would appreciate any details of biological records resulting from any survey undertaken.
7. Permission to use data expires 12 months after its supply. Applications to extend beyond this period should be made before the expiry date.
8. Data are as held by Herefordshire Biological Records Centre. Past records of presence of a species or habitat do not guarantee continued occurrence. Absence of records does not imply absence of a species, merely that no records are held.
9. Data are provided *without prejudice* and according to our Charging Policy, which is available on request. Commercial users are always subject to our Charging policy. Further to your request we will provide you with a quotation for processing of information and/or biological records; if this quotation is acceptable we will require approval in writing via letter or fax in order to proceed. Voluntary recording societies and local naturalists are generally exempted from this Policy.

Present Charge Rates are based on £60 per hour, exclusive of VAT.



Map showing locally designated
sites within 2km of SO594456
Lower Castleton, Westhild

NORTH

SCALE 1: 23,500

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BIOLOGICAL
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CENTRE

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DEVELOPMENT CONTROL

04 AUG 2011



Map showing distribution of records
for legally protected species within
2km of SO594456 Lower Castleton,
Westhide



SCALE 1: 23,500

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BIOLOGICAL
RECORDS
CENTRE

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FURTHER INFORMATION REGARDING SPECIES STATUSES

Note that any status listed on data provided by HBRC is provided as a guide only and not a statement of law. Full reference must instead be made to relevant documentation or legislation.

Data Search Code	Status Code	Full Title	Description
S1	PBA	Protection of Badgers Act (1992)	The Protection of Badgers Act 1992 protects badgers from taking, injuring, killing, cruel treatment, selling, possessing, marking and having their setts interfered with, subject to exceptions.
S1	Berne1	Berne Convention Appendix 1	Special protection ('appropriate and necessary legislative and administrative measures') for the plant taxa listed, including prohibition of deliberate picking, collecting, cutting, uprooting and, as appropriate, possession or sale.
S1	Berne2	Berne Convention Appendix 2	Special protection ('appropriate and necessary legislative and administrative measures') for the animal taxa listed, including: All forms of deliberate capture and keeping and deliberate killing; The deliberate damage to or destruction of breeding or resting sites; The deliberate disturbance of wild fauna, particularly during the period of breeding, rearing and hibernation, insofar as disturbance would be significant in relation to the objectives of this Convention; The deliberate destruction or taking of eggs from the wild or keeping these eggs even if empty; the possession of and internal trade in these animals, alive or dead, including stuffed animals and any readily recognisable part or derivative thereof, where this would contribute to the effectiveness of the provisions of this article.
S1	BD1	Birds Directive Annex 1	Birds which are the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. As appropriate, Special Protection Areas to be established to assist conservation measures.
S1	HabsRegs2	The Conservation (Natural Habitats, &c.) Regulations 1994 (Schedule 2)	European protected species of animals (i.e. species listed in Annex IVa of the Habitats Directive).
S1	HabsRegs4	The Conservation (Natural Habitats, &c.) Regulations 1994 (Schedule 4)	European protected species of plants (i.e. species listed in Annex IVb of the Habitats Directive).
S1	HSD2np	Habitats and species directive Annex 2 - priority species	Species which are endangered, the conservation of which the Community has a particular responsibility in view of the proportion of their natural range which falls within the territory of the Community. They require the designation of special areas of conservation (SACs)

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S1	HSD2p	Habitats and species directive Annex 2 - non-priority species	Animal and plant species of Community interest (i.e. endangered, vulnerable, rare or endemic in the European Community) whose conservation requires the designation of special areas of conservation.
S1	HSD4	Habitats and species directive Annex 4	Animal and plant species of Community interest (i.e. endangered, vulnerable, rare or endemic in the European Community) in need of strict protection. They are protected from killing, disturbance or the destruction of them or their habitat.
S1	WCA1i	Wildlife and Countryside Act 1981 (Schedule 1 Part 1).	Birds which are protected by special penalties at all times.
S1	WCA1ii	Wildlife and Countryside Act 1981 (Schedule 1 Part 2)	Birds which are protected by special penalties during the close season.
S1	WCA5/9.1k/l	Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1 (killing/injuring))	Section 9.1. Animals which are protected from intentional killing or injuring.
S1	WCA5/9.1t	Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1 (taking))	Section 9.1 Animals which are protected from taking.
S1	WCA5/9.2	Wildlife and Countryside Act 1981 (Schedule 5 Section 9.2)	Section 9.2 Animals which are protected from being possessed or controlled (live or dead).
S1	WCA5/9.4a	Wildlife and Countryside Act 1981 (Schedule 5 Section 9.4a)	Section 9.4 Animals which are protected from intentional damage or destruction to any structure or place used for shelter or protection.
S1	WCA5/9.4b	Wildlife and Countryside Act 1981 (Schedule 5 Section 9.4b)	Section 9.4 Animals which are protected from intentional disturbance while occupying a structure or place used for shelter or protection.
S1	WCA5/9.5a	Wildlife and Countryside Act 1981 (Schedule 5 Section 9.5a)	Section 9.5 Animals which are protected from being sold, offered for sale or being held or transported for sale either live or dead, whole or part.
S1	WCA5/9.5b	Wildlife and Countryside Act 1981 (Schedule 5 Section 9.5b)	Section 9.5 Animals which are protected from being published or advertised as being for sale.
S1	WCA5/9.4c	Wildlife and Countryside Act 1981 (Schedule 5)	Animals which are protected from their access to any structure or place which they use for shelter or protection being obstructed.
S1	WCA8	Wildlife and Countryside Act 1981 (Schedule 8)	Plants which are protected from: intentional picking, uprooting or destruction (Section 13 1a); selling, offering for sale, possessing or transporting for the purpose of sale (live or dead, part or derivative) (Section 13 2a); advertising (any of these) for sale.



S2	UKBAP	UK Biodiversity Action Plan priority species	The UK List of Priority Species and Habitats contains 1150 species and 65 habitats that have been listed as priorities for conservation action under the UK Biodiversity Action Plan (UK BAP).
S2	Bred	Bird Population Status- red	Red list species are those that are Globally Threatened according to IUCN criteria; those whose population or range has declined rapidly in recent years; and those that have declined historically and not shown a substantial recent recovery.
S2	Bonn1	Bonn Convention Appendix 1	Endangered migratory species in danger of extinction throughout all or a significant portion of their range, and for which Range States are obliged to prohibit taking and to take protective measures to conserve. (Note that taking may be permitted in some circumstances)
S2	Bonn2	Bonn Convention Appendix 2	Migratory species having an unfavourable conservation status for which Range States are encouraged to conclude international agreements for their benefit.
S2	CITESA	EC CITES Annex A	All CITES Appendix I species. Some CITES Appendix II and III species, for which the EU has adopted stricter domestic measures. Some non-CITES species.
S2	CITESB	EC CITES Annex B	All other CITES Appendix II species not listed in Annex A. Some CITES Appendix III species. Some non-CITES species.
S2	CITESC	EC CITES Annex C	All other CITES Appendix III species not listed in Annex A or Annex B.
S2	CITESD	EC CITES Annex D	Some CITES Appendix III species for which the EU holds a reservation (CITES reservations: English, French, Spanish). Some non-CITES species.
S2	Sect.41	Natural Environment & Rural Communities Act 2006 - Species of Principal Importance in England (s41)	Species "of principal importance for the purpose of conserving biodiversity" covered under section 41 (England) of the NERC Act (2006) and therefore need to be taken into consideration by a public body when performing any of its functions with a view to conserving biodiversity.
S2	HBAPPS	Herefordshire BAP Priority Species	Species which occur on the Herefordshire Biodiversity Action Plan Priority Species List. Please see http://www.herefordshire.gov.uk/herefordbap/ for further details.
S2	BCRP	Butterfly Conservation West Midlands Regional Action Plan: High Priority Species	Butterflies selected as high priorities according to four criteria for estimated rate of decline in 10km squares or proportion of regions' area or national resource or other justification. Moths selected as high priority moths for this region by Dr Paul Waring (see Bourn, Warren & Kirkland 1996) and all occur in less than 15 10km squares nationally. http://www.butterfly-conservation.org/downloads/74/Regional_Action_Plans.html for further information.
S3	BAmb	Bird Population Status- amber	Amber list species are those with an unfavourable conservation status in Europe; those whose population or range has declined moderately in recent years; those whose population has declined historically but made a substantial recent recovery; rare breeders; and those with internationally important or localised populations.



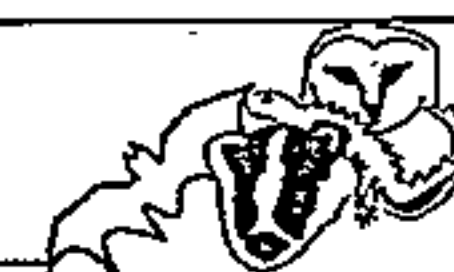
S3	NR(vp) NS Na Nb N	Non IUCN Red Listing (Various Guidelines)	Nationally Notable (Nationally Scarce, Nationally Notable, (classes A and B) and Notable) species as compiled within various Reviews, Status Assessment and assessed using non-IUCN methodologies (these are usually based on distribution alone).
S3	RLGB.EX RLGB.EW RLGB.CR RLGB.EN RLGB.VU RLGB.NT RLGB.REX	IUCN Red Listing GB (various guidelines)	Extinct (EX), Extinct in the Wild (EW), Critically Endangered (CR), Endangered (EN), Vulnerable (VU), Near Threatened (NT), Regionally Extinct (REX) species evaluated against IUCN criteria.
S3	RLGLB.CR RLGLB.EN RLGLB.VU RLGLB.LR(cd) RLGLB.Lr(NT)	IUCN Red Listing Global (various guidelines)	Critically Endangered (CR), Endangered (EN), Vulnerable (VU), Lower risk - conservation dependent (LR(cd)), Lower risk - near threatened (Lr(NT)) species evaluated against IUCN criteria.
S3	BCRM	Butterfly Conservation West Midlands Regional Action Plan: Medium Priority Species	Butterflies selected as medium priorities according to four criteria for estimated rate of decline in 10km squares or proportion of regions' area or national resource or other justification. Moths selected as medium priorities include all Red Data Book (RDB) species and all nationally notable (Na or Nb) species which are currently known to occur in the region. Please see http://www.butterfly-conservation.org/downloads/74/Regional_Action_Plans.html for further information.
S3	HBAPCC	Herefordshire LBAP: Conservation Concern Species	Species listed as Species of Conservation Concern within Herefordshire LBAP. Please see http://www.herefordshire.gov.uk/herfordbap/ for further details.
S4	HBAPSR	Herefordshire LBAP: Research	Species listed as Priorities for Species Research within Herefordshire LBAP. Please see http://www.herefordshire.gov.uk/herfordbap/ for further details.
S4	RLGB.DD	IUCN Red Listing (various guidelines)	Data Deficient (DD) species evaluated against IUCN criteria. Those species evaluated to Insufficient or Indeterminate using pre-1994 IUCN criteria have been grouped with Data Deficient.

Updated 28th January 2011

Edwards Ecology

N / 111853 / F

SO594456



Lower Castleton, Westhide

Records for legally protected species within 2km

Species		Status, if known	Grid Ref.	Year	Measurement
Eurasian Treecreeper	<i>Certhia familiaris</i>	Bern2	SO585443	2009	1 Present
Marsh Tit	<i>Poecile palustris</i>	Bern2, BRed, HBAPCC	SO585443	2009	2 Present
Red Kite	<i>Milvus milvus</i>	BAmb, BD1, CITESA, CMS_A2, WCA1i	SO596473	2009	1 Present
Blue Tit	<i>Cyanistes caeruleus</i>	Bern2	SO585443	2008	4 Present
Blue Tit	<i>Cyanistes caeruleus</i>	Bern2	SO585443	2008	6 Present
Coal Tit	<i>Periparus ater</i>	Bern2	SO585443	2008	2 Present
Eurasian Siskin	<i>Carduelis spinus</i>	Bern2	SO585443	2008	9 Present
Eurasian Treecreeper	<i>Certhia familiaris</i>	Bern2	SO585443	2008	1 Present
Eurasian Treecreeper	<i>Certhia familiaris</i>	Bern2	SO585443	2008	1 Present
European Robin	<i>Erithacus rubecula</i>	Bern2	SO585443	2008	3 Present
Fieldfare	<i>Turdus pilaris</i>	BRed, HBAPCC, WCA1i	SO585443	2008	22 Present
Goldcrest	<i>Regulus regulus</i>	Bern2	SO585443	2008	2 Present
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Bern2	SO585443	2008	2 Present
Great Tit	<i>Parus major</i>	Bern2	SO585443	2008	6 Present
Hedge Accentor	<i>Prunella modularis</i>	BAmb, Bern2	SO585443	2008	3 Present
Marsh Tit	<i>Poecile palustris</i>	Bern2, BRed, HBAPCC	SO585443	2008	1 Present
Troglodytes troglodytes subsp. troglodytes	<i>Troglodytes troglodytes subsp. troglodytes</i>	Bern2	SO585443	2008	1 Present
Troglodytes troglodytes subsp. troglodytes	<i>Troglodytes troglodytes subsp. troglodytes</i>	Bern2	SO585443	2008	2 Present
Wood Nuthatch	<i>Sitta europaea</i>	Bern2	SO585443	2008	2 Present
Wood Nuthatch	<i>Sitta europaea</i>	Bern2	SO585443	2008	2 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO594457	2008	1 Present
Barn Swallow	<i>Hirundo rustica</i>	BAmb, Bern2	SO594457	2008	8 Present
Blue Tit	<i>Cyanistes caeruleus</i>	Bern2	SO594457	2008	4 Present
European Greenfinch	<i>Carduelis chloris</i>	Bern2	SO594457	2008	12 Present
European Robin	<i>Erithacus rubecula</i>	Bern2	SO594457	2008	2 Present
Spotted Flycatcher	<i>Muscicapa striata</i>	Bern2, BRed, CMS_A2, HBAPCC, HBAPPS, Sect.41, UKBAP	SO594457	2008	3 Present
Wood Nuthatch	<i>Sitta europaea</i>	Bern2	SO594457	2008	1 Present
Yellowhammer	<i>Emberiza citrinella</i>	Bern2, BRed, HBAPCC, Sect.41, UKBAP	SO594457	2008	3 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2008	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2008	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2008	1 Present
Plecotus	<i>Plecotus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO5846	2007	3+ Dead
Barn Swallow	<i>Hirundo rustica</i>	BAmb, Bern2	SO585443	2007	5 Present
Blue Tit	<i>Cyanistes caeruleus</i>	Bern2	SO585443	2007	6 Present
Blue Tit	<i>Cyanistes caeruleus</i>	Bern2	SO585443	2007	5 Present
Coal Tit	<i>Periparus ater</i>	Bern2	SO585443	2007	2 Present
Coal Tit	<i>Periparus ater</i>	Bern2	SO585443	2007	2 Present
Common Kestrel	<i>Falco tinnunculus</i>	BAmb, Bern2, CITESA, CMS_A2, HBAPCC,	SO585443	2007	1 Male

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Eurasian Siskin	<i>Carduelis spinus</i>	Bern2	SO585443	2007	1 Female
European Goldfinch	<i>Carduelis carduelis</i>	Bern2	SO585443	2007	4 Present
European Greenfinch	<i>Carduelis chloris</i>	Bern2	SO585443	2007	c.70 Present
European Robin	<i>Erithacus rubecula</i>	Bern2	SO585443	2007	1 Present
European Robin	<i>Erithacus rubecula</i>	Bern2	SO585443	2007	1 Present
European Robin	<i>Erithacus rubecula</i>	Bern2	SO585443	2007	4 Present
Fieldfare	<i>Turdus pilaris</i>	BRed, HBAPCC, WCA1i	SO585443	2007	c.300 Present
Fieldfare	<i>Turdus pilaris</i>	BRed, HBAPCC, WCA1i	SO585443	2007	c.130 Present
Goldcrest	<i>Regulus regulus</i>	Bern2	SO585443	2007	3 Present
Goldcrest	<i>Regulus regulus</i>	Bern2	SO585443	2007	2 Present
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Bern2	SO585443	2007	2 Present
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Bern2	SO585443	2007	2 Present
Green Woodpecker	<i>Picus viridis</i>	BAmb, Bern2, HBAPCC	SO585443	2007	2 Present
Green Woodpecker	<i>Picus viridis</i>	BAmb, Bern2, HBAPCC	SO585443	2007	2 Present
Marsh Tit	<i>Poecile palustris</i>	Bern2, BRed, HBAPCC	SO585443	2007	1 Present
Redwing	<i>Turdus iliacus</i>	BRed, HBAPCC, WCA1i	SO585443	2007	20 Present
Troglodytes troglodytes subsp. troglodytes	<i>Troglodytes troglodytes subsp. troglodytes</i>	Bern2	SO585443	2007	1 Present
Yellowhammer	<i>Emberiza citrinella</i>	Bern2, BRed, HBAPCC, Sect.41, UKBAP	SO585443	2007	c.40 Present
Yellowhammer	<i>Emberiza citrinella</i>	Bern2, BRed, HBAPCC, Sect.41, UKBAP	SO585443	2007	6 Present
Plecotus	<i>Plecotus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589147 36	2007	1 Roosting
Plecotus	<i>Plecotus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589347 36	2007	1 Roosting
Plecotus	<i>Plecotus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589347 36	2007	1 Roosting
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	Bern2, CMS_A2, HabRegs2, HBAPCC, HBAPPS, HSD4, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589473	2007	4 Feeding
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	Bern2, CMS_A2, HabRegs2, HBAPCC, HBAPPS, HSD4, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589473	2007	2 Feeding
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	Bern2, CMS_A2, HabRegs2, HBAPCC, HBAPPS, HSD4, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589473	2007	1+ Feeding
Plecotus	<i>Plecotus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589473	2007	1 Feeding
Plecotus	<i>Plecotus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589473	2007	1 Feeding
Plecotus	<i>Plecotus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589473	2007	1 Feeding
Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	Bern2, CMS_A2, HabRegs2, HBAPCC, HBAPPS, HSD4, Sect.41, UKBAP, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589473	2007	1 Feeding
Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	Bern2, CMS_A2, HabRegs2, HBAPCC, HBAPPS, HSD4, Sect.41, UKBAP, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589473	2007	1 Feeding

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Unidentified Bat	<i>Myotis</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589473	2007	1 Feeding
Unidentified Bat	<i>Myotis</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589473	2007	1 Feeding
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO594457	2007	1 Present
Blue Tit	<i>Cyanistes caeruleus</i>	Bern2	SO594457	2007	6 Present
European Goldfinch	<i>Carduelis carduelis</i>	Bern2	SO594457	2007	20 Present
European Goldfinch	<i>Carduelis carduelis</i>	Bern2	SO594457	2007	6 Present
European Robin	<i>Erithacus rubecula</i>	Bern2	SO594457	2007	3 Present
European Robin	<i>Erithacus rubecula</i>	Bern2	SO594457	2007	4 Present
Fieldfare	<i>Turdus pilaris</i>	BRed, HBAPCC, WCA1i	SO594457	2007	c.60 Present
Fieldfare	<i>Turdus pilaris</i>	BRed, HBAPCC, WCA1i	SO594457	2007	40 Present
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Bern2	SO594457	2007	1 Present
Grey Wagtail	<i>Motacilla cinerea</i>	BAmb, Bern2, HBAPCC	SO594457	2007	1 Present
Hedge Accentor	<i>Prunella modularis</i>	BAmb, Bern2	SO594457	2007	4 Present
Little Owl	<i>Athene noctua</i>	Bern2, CITESA, HBAPCC	SO594457	2007	1 Present
Pied Wagtail	<i>Motacilla alba subsp. yarrellii</i>	Bern2	SO594457	2007	3 Present
Pied Wagtail	<i>Motacilla alba subsp. yarrellii</i>	Bern2	SO594457	2007	4 Present
Redwing	<i>Turdus iliacus</i>	BRed, HBAPCC, WCA1i	SO594457	2007	10 Present
Redwing	<i>Turdus iliacus</i>	BRed, HBAPCC, WCA1i	SO594457	2007	8 Present
Troglodytes troglodytes subsp. troglodytes	<i>Troglodytes troglodytes subsp. troglodytes</i>	Bern2	SO594457	2007	1 Present
Troglodytes troglodytes subsp. troglodytes	<i>Troglodytes troglodytes subsp. troglodytes</i>	Bern2	SO594457	2007	3 Present
Wood Nuthatch	<i>Sitta europaea</i>	Bern2	SO594457	2007	1 Present
Yellowhammer	<i>Emberiza citrinella</i>	Bern2, BRed, HBAPCC, Sect.41, UKBAP	SO594457	2007	14 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2007	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2007	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO612459	2007	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2006	1 Present
Bats	<i>Chiroptera</i>		SO597460	2006	30+ Droppings
Bats	<i>Chiroptera</i>		SO597460	2006	1+ Droppings
Bats	<i>Chiroptera</i>		SO597460	2006	1+ Present
Bats	<i>Chiroptera</i>		SO597460	2006	1+ Present
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	Bern2, CMS_A2, HabRegs2, HBAPCC, HBAPPS, HSD4, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO597460	2006	1 Present
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	Bern2, CMS_A2, HabRegs2, HBAPCC, HBAPPS, HSD4, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO597460	2006	1 Present
Pipistrellus	<i>Pipistrellus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO597460	2006	1 Present
Pipistrellus	<i>Pipistrellus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO597460	2006	1+ Present

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Pipistrellus	<i>Pipistrellus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO597460	2006	1+ Droppings
Plecotus	<i>Plecotus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO597460	2006	1+ Present
Plecotus	<i>Plecotus</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO597460	2006	1+ Droppings
Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	Bern2, CMS_A2, HabRegs2, HBAPCC, HBAPPS, HSD4, Sect.41, UKBAP, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO597460	2006	1 Present
Swallow	<i>Hirundo rustica</i>	BAmb, Bern2	SO597460	2006	1 Nest
Unidentified Bat	<i>Myotis</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO597460	2006	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO575459	2005	1 Present
Common Toad	<i>Bufo bufo</i>	HBAPCC, Sect.41, UKBAP, WCA5/9.5a, WCA5/9.5b	SO577465	2005	1 Breeding Confirmed
Common Toad	<i>Bufo bufo</i>	HBAPCC, Sect.41, UKBAP, WCA5/9.5a, WCA5/9.5b	SO577465	2005	2 Adult
Common Toad	<i>Bufo bufo</i>	HBAPCC, Sect.41, UKBAP, WCA5/9.5a, WCA5/9.5b	SO577465	2005	1 Adult
Great Crested Newt	<i>Triturus cristatus</i>	Bern2, HabRegs2, HBAPCC, HBAPPS, HSD2p, HSD4, Sect.41, UKBAP, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO577465	2005	2 Egg/ovum
Smooth Newt	<i>Lissotriton vulgaris</i>	HBAPCC, WCA5/9.5a, WCA5/9.5b	SO577465	2005	1 Adult Male; 6 Egg/ovum
Smooth Newt	<i>Lissotriton vulgaris</i>	HBAPCC, WCA5/9.5a, WCA5/9.5b	SO577465	2005	1 Adult
Smooth Newt	<i>Lissotriton vulgaris</i>	HBAPCC, WCA5/9.5a, WCA5/9.5b	SO577465	2005	1 Adult Male; 2 Adult Female
Smooth Newt	<i>Lissotriton vulgaris</i>	HBAPCC, WCA5/9.5a, WCA5/9.5b	SO577465	2005	3 Adult Male; 6 Adult Female
Little Owl	<i>Athene noctua</i>	Bern2, CITESA, HBAPCC	SO589047	2005	1 Signs
Unidentified Bat	<i>Chiroptera</i>		SO589047	2005	Present
Little Owl	<i>Athene noctua</i>	Bern2, CITESA, HBAPCC	SO589474	2005	1 Roosting
Unidentified Bat	<i>Myotis</i>	CMS_A2, HabRegs2, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO589474	2005	1 Droppings
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2005	1 Present
Common Linnet	<i>Carduelis cannabina</i>	Bern2, BRed, HBAPCC, HBAPPS	SO596473	2005	1 Present
Red Kite	<i>Milvus milvus</i>	BAmb, BD1, CITESA, CMS_A2, WCA1i	SO596473	2005	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO575459	2004	1 Present
Common Toad	<i>Bufo bufo</i>	HBAPCC, Sect.41, UKBAP, WCA5/9.5a, WCA5/9.5b	SO577465	2004	1 Juvenile
Common Toad	<i>Bufo bufo</i>	HBAPCC, Sect.41, UKBAP, WCA5/9.5a, WCA5/9.5b	SO577465	2004	1 Breeding Confirmed
Common Toad	<i>Bufo bufo</i>	HBAPCC, Sect.41, UKBAP, WCA5/9.5a, WCA5/9.5b	SO577465	2004	1 Juvenile
Smooth Newt	<i>Lissotriton vulgaris</i>	HBAPCC, WCA5/9.5a, WCA5/9.5b	SO577465	2004	2 Adult; 2 Juvenile

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Smooth Newt	<i>Lissotriton vulgaris</i>	HBAPCC, WCA5/9.5a, WCA5/9.5b	SO577465	2004	2 Egg/ovum; 2 Breeding Confirmed
Smooth Newt	<i>Lissotriton vulgaris</i>	HBAPCC, WCA5/9.5a, WCA5/9.5b	SO577465	2004	2 Egg/ovum; 2 Breeding Confirmed
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO585443	2004	2 Present
Barn Swallow	<i>Hirundo rustica</i>	BAmb, Bern2	SO585443	2004	8 Present
Great Spotted Woodpecker	<i>Dendrocopos major</i>	Bern2	SO585443	2004	2 Present
Fieldfare	<i>Turdus pilaris</i>	BRed, HBAPCC, WCA1i	SO594457	2004	c.250 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2004	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2004	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2004	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2004	1 Present
Common Kestrel	<i>Falco tinnunculus</i>	BAmb, Bern2, CITESA, CMS_A2, HBAPCC, HBAPPS	SO596473	2004	1 Present; Present Male
Badger	<i>Meles meles</i>	HBAPCC, PBA	SO607443	2004	1 Dead
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO585443	2003	1 Present
Barn Swallow	<i>Hirundo rustica</i>	BAmb, Bern2	SO585443	2003	3 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2003	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO596473	2003	1 Present
Eurasian Siskin	<i>Carduelis spinus</i>	Bern2	SO585443	2002	12 Present
Fieldfare	<i>Turdus pilaris</i>	BRed, HBAPCC, WCA1i	SO585443	2002	c.100 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO594457	2002	1 Present
Common Kingfisher	<i>Alcedo atthis</i>	BAmb, BD1, Bern2, HBAPCC, HBAPSR, WCA1i	SO594457	2002	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO575459	2000	2 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO594457	2000	1 Present
Barn Owl	<i>Tyto alba</i>	BAmb, Bern2, CITESA, HBAPCC, HBAPPS, WCA1i	SO608458	2000	1 Breeding; 2 Present
Bluebell	<i>Hyacinthoides non-scripta</i>	HBAPCC, WCA8	SO54Y	1993	Present
Bluebell	<i>Hyacinthoides non-scripta</i>	HBAPCC, WCA8	SO64C	1990	Present
Great Crested Newt	<i>Triturus cristatus</i>	Bern2, HabRegs2, HBAPCC, HBAPPS, HSD2p, HSD4, Sect.41, UKBAP, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO587443	1988	Abundant Present
Water Vole	<i>Arvicola amphibius</i>	HBAPCC, HBAPPS, Sect.41, UKBAP, WCA5/9.1k/i, WCA5/9.1t, WCA5/9.2, WCA5/9.4a, WCA5/9.4b, WCA5/9.4c, WCA5/9.5a, WCA5/9.5b	SO587443	1988	Present
Bats		WCA5/9.5a, WCA5/9.5b	SO591474	1984	Present

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Bluebell

Hyacinthoides non-scripta

HBAPCC, WCA8

SO610462

1978

Present

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Appendix 2A

- Nigel Hand, Central Ecology -
- Lower Castleton Great Crested Newt Population Assessment and Mitigation Strategy

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Appendix 3A

Bats and the Law

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All bat species and their roosts are legally protected in the UK. All bats are listed as European protected species of animals in the European Union's Council Directive 92/43/EEC of 21 May 1992 on the Conservation of Natural Habitats and of Wild Fauna and Flora, better known as the Habitats Directive. This Directive is implemented in the UK by the Conservation (Natural Habitats, &c.) Regulations 1994 (better known as the Habitats Regulations). Amended to the Conservation of Habitats and Species Regulations 2010.

The Act, the Regulations and the Countryside and Rights of Way Act 2000 together make it illegal to (amongst other things) recklessly, intentionally or deliberately:

Kill, injure or capture bats, or
Damage, destroy or obstruct access to any structure or place used by bats for rest, shelter or protection, or
Disturb bats while they are occupying such a place.

There are a number of exceptions to the above and Natural England can issue a licence to permit any of the above for the purposes of development provided the following conditions are met:

The development is "for the purpose of preserving public health or public safety or other imperative reasons of overriding public interest including those of a social or economic nature and beneficial consequences of primary importance to the environment" (where planning permission is required this condition is usually met during the planning process. Note that, where applicable, Natural England will not issue a licence until planning permission has been obtained and any relevant conditions discharged,) and

There is no satisfactory alternative, and

The action authorised (by the licence) will not be detrimental to the maintenance of the population of the species at a favourable conservation status in their natural range. Natural England will require appropriate mitigation and compensation minimising the impact of the development on the bats to be agreed prior to giving their consent.

Note that Natural England normally take around 30 working days to process licence applications.

Further details can be found at:-

<http://www.naturalengland.org.uk/ourwork/regulation/wildlife/species/europeanprotectedspecies.aspx>



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Appendix 5A

Installing Bat Boxes

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Roosting opportunities for Pipistrelles and other crevice dwelling species (eg myotis bats) can be provided by erecting bat boxes on the outside of the new dwelling. We would suggest using Woodcrete Schwegler 1FF bat boxes as they provide a good thermal insulation and a resistance to rot and damage by other animals. Correct sighting increases the chances of use and as a general rule the boxes should be sited on the wall with the front facing SW to SE. The boxes should be at least 4 Metres from the ground and about 20cms from the guttering.



Schwegler 1FF Bat Box
Suitable for inaccessible places



Schwegler 1FD Bat Box
Specifically developed for smaller bats

<http://www.schweglershop.de/shop/index.php>

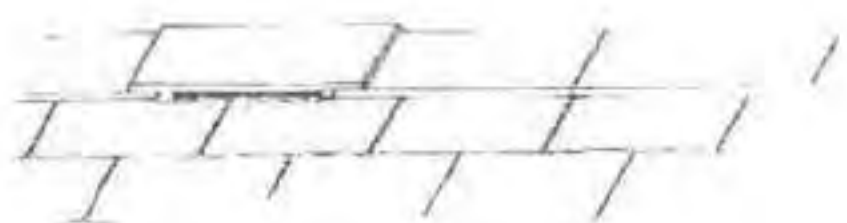
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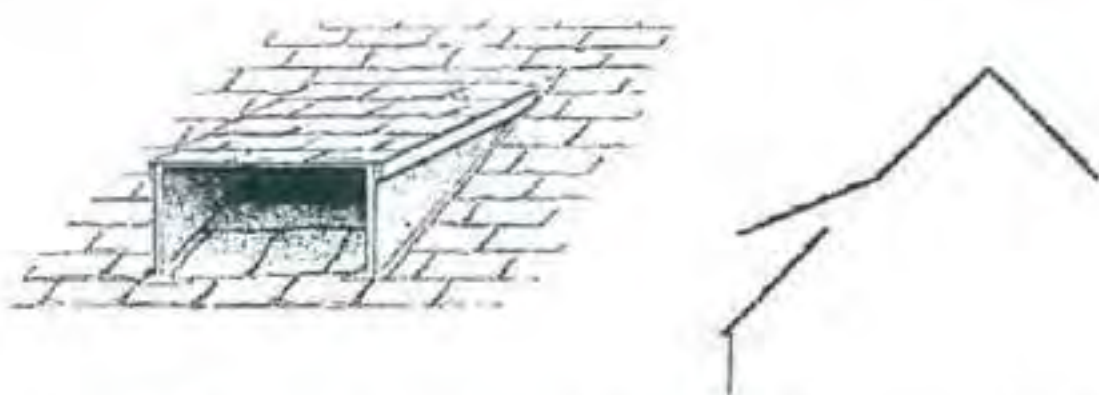
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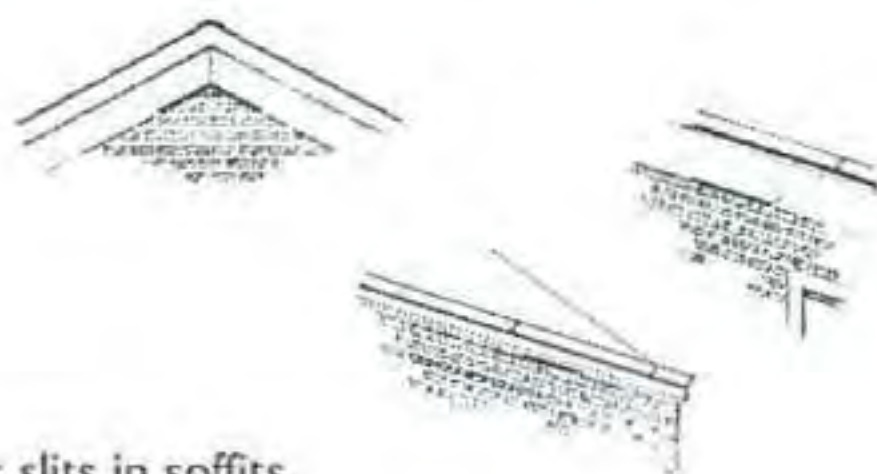
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Ridge ventilators can be adapted as bat access points. It may be necessary to remove internal mesh or plastic mouldings.



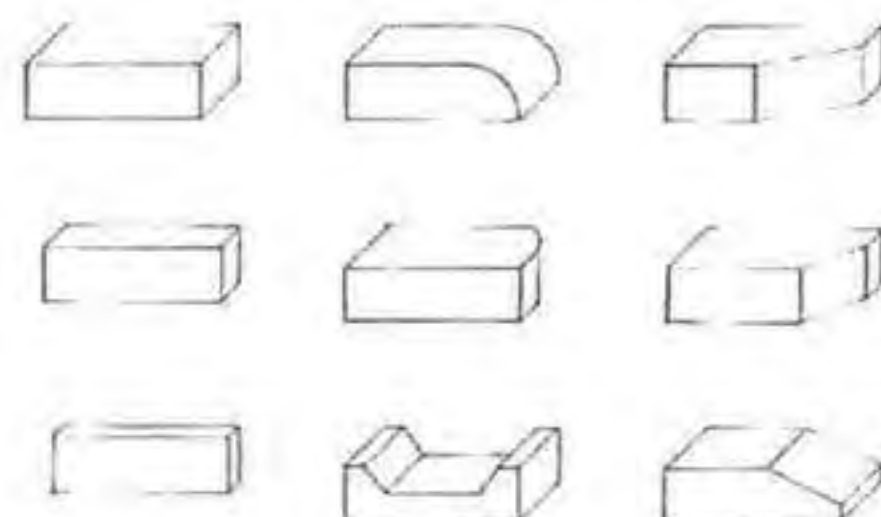
Dormer entrance, particularly suitable for horseshoe bats.



Access slits in soffits.



Lead saddle in place of a slate to allow bats access to ridge or roof void. Lead flashing around chimneys or other features can also be moulded to form bat access points.



Walling bricks for creating bat access points. A standard brick is shown top left. Purpose-made bat bricks can also be used.

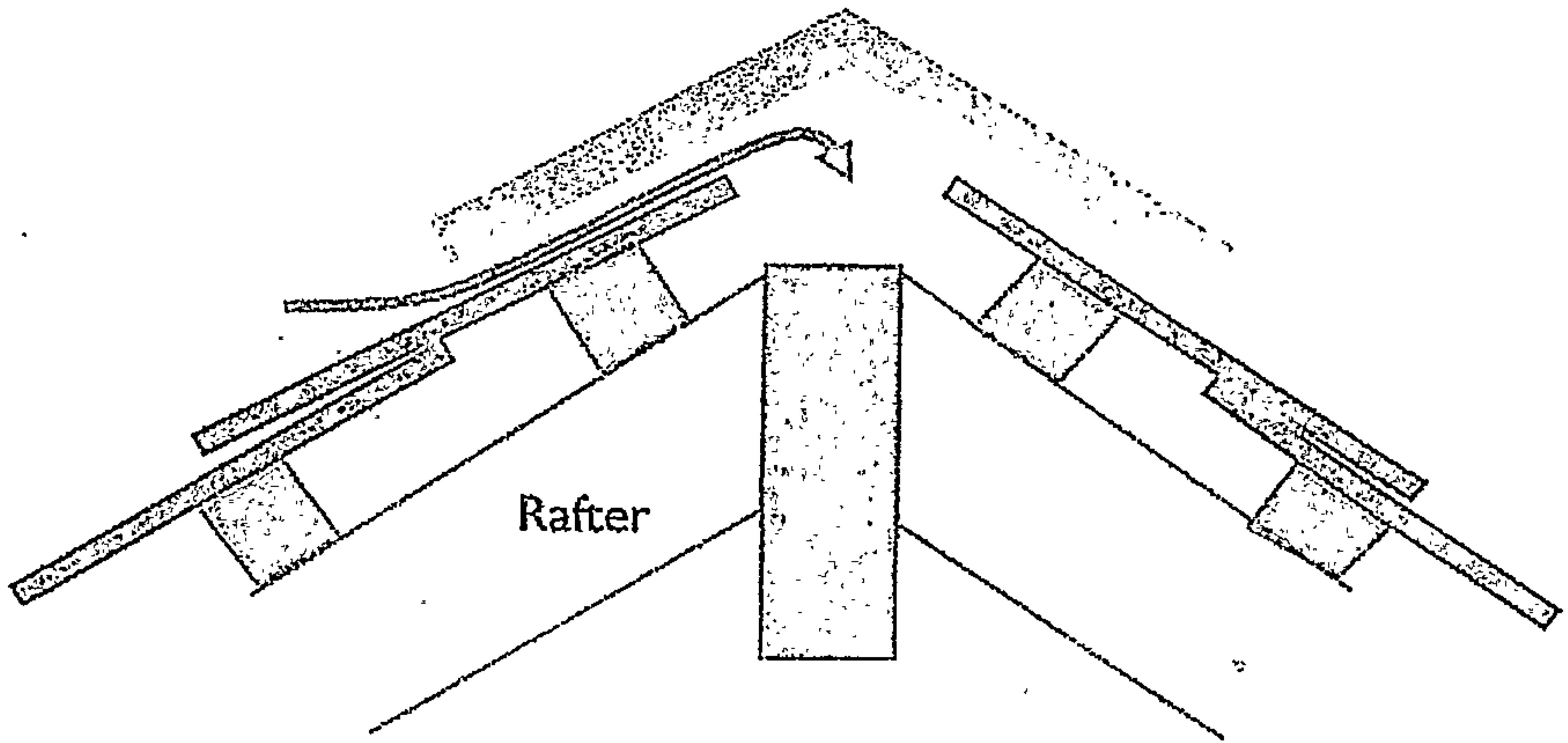


Illustration sketches and examples of ridge tile access points for crevice dwelling species.

NB Small corresponding holes under each ridge tile or eaves access point must be cut into the roofing felt to allow bats access through past the roofing felt into the loft space for roosting.

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Sketch showing side view of ridge tile access point
for crevice bat species



Bat access gap at ridge into roof void.

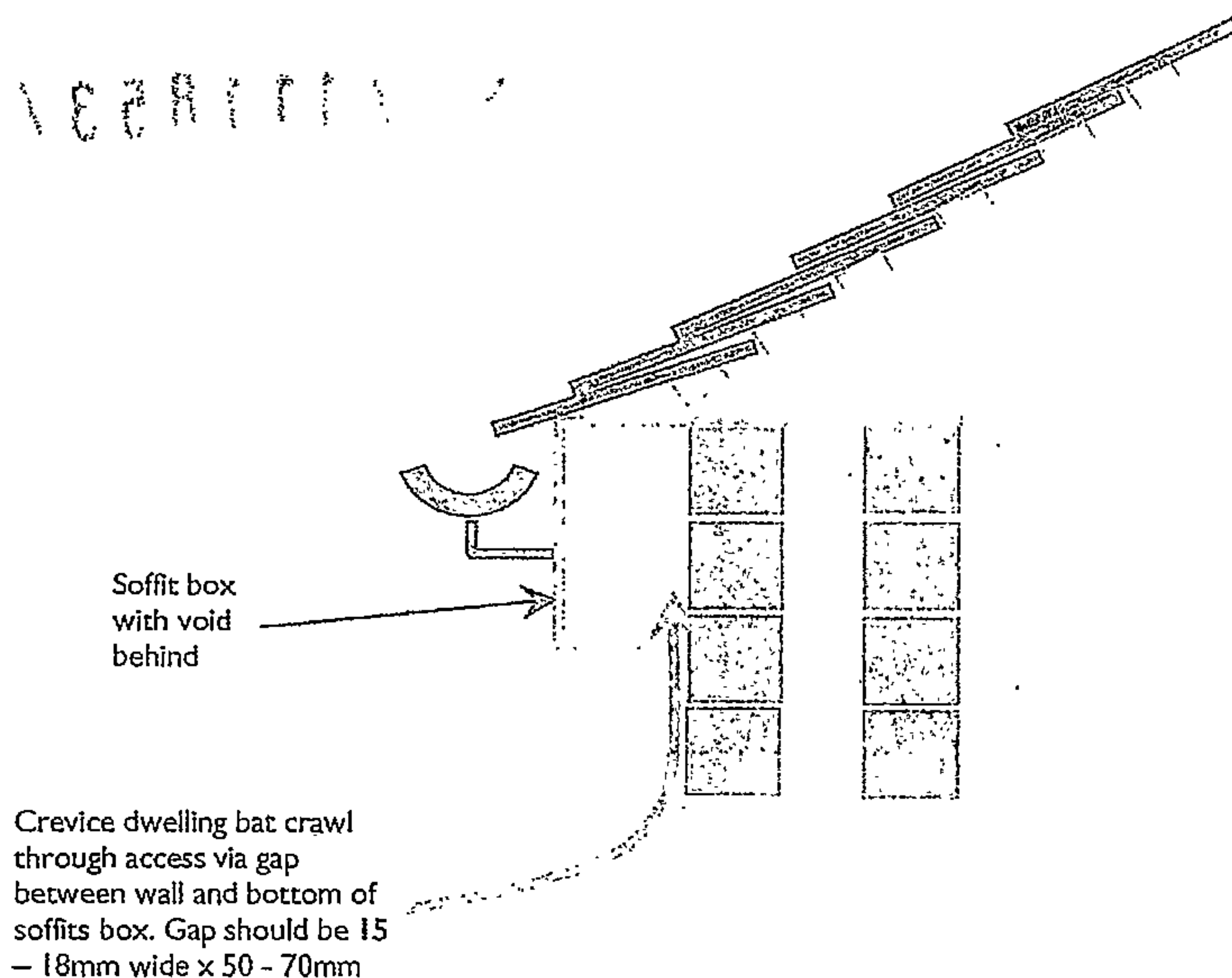
Gaps should be 15 – 18mm wide x 50 - 70mm long



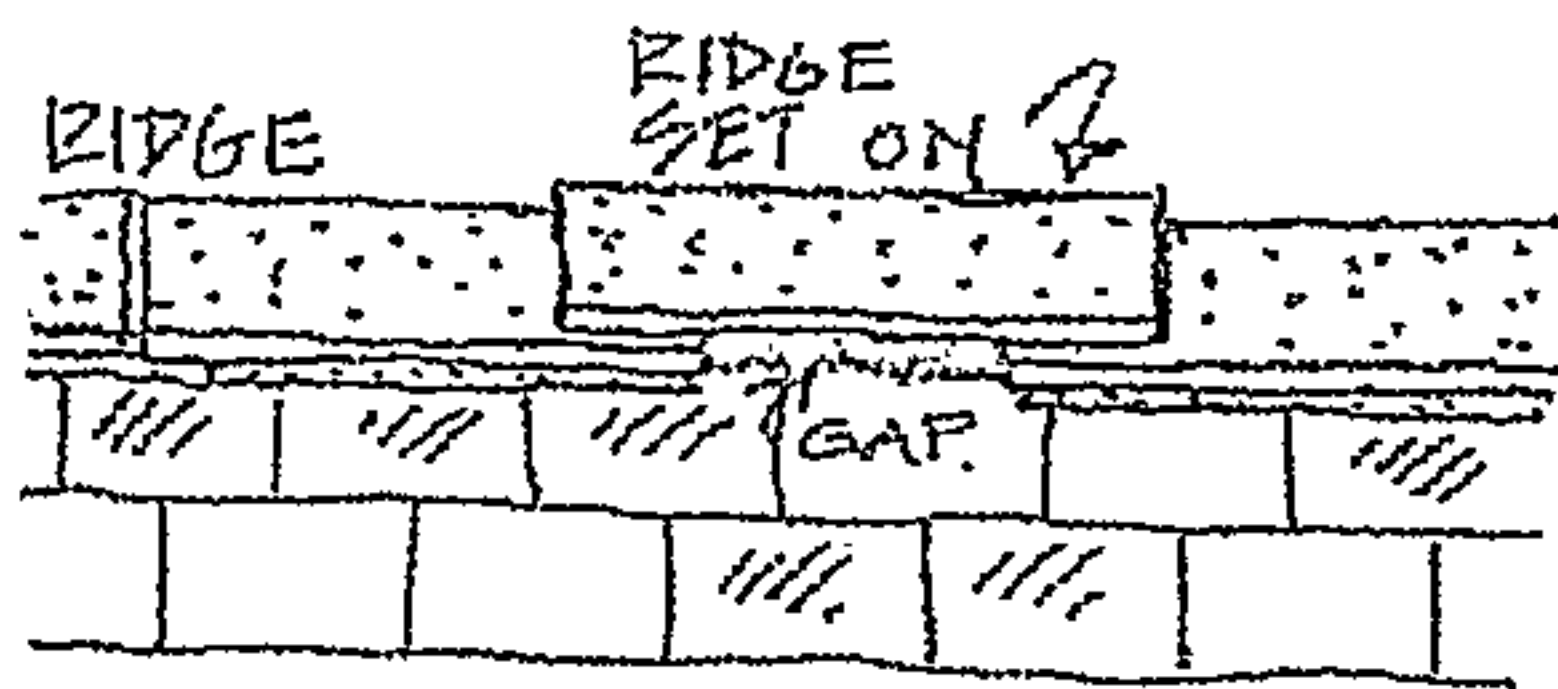
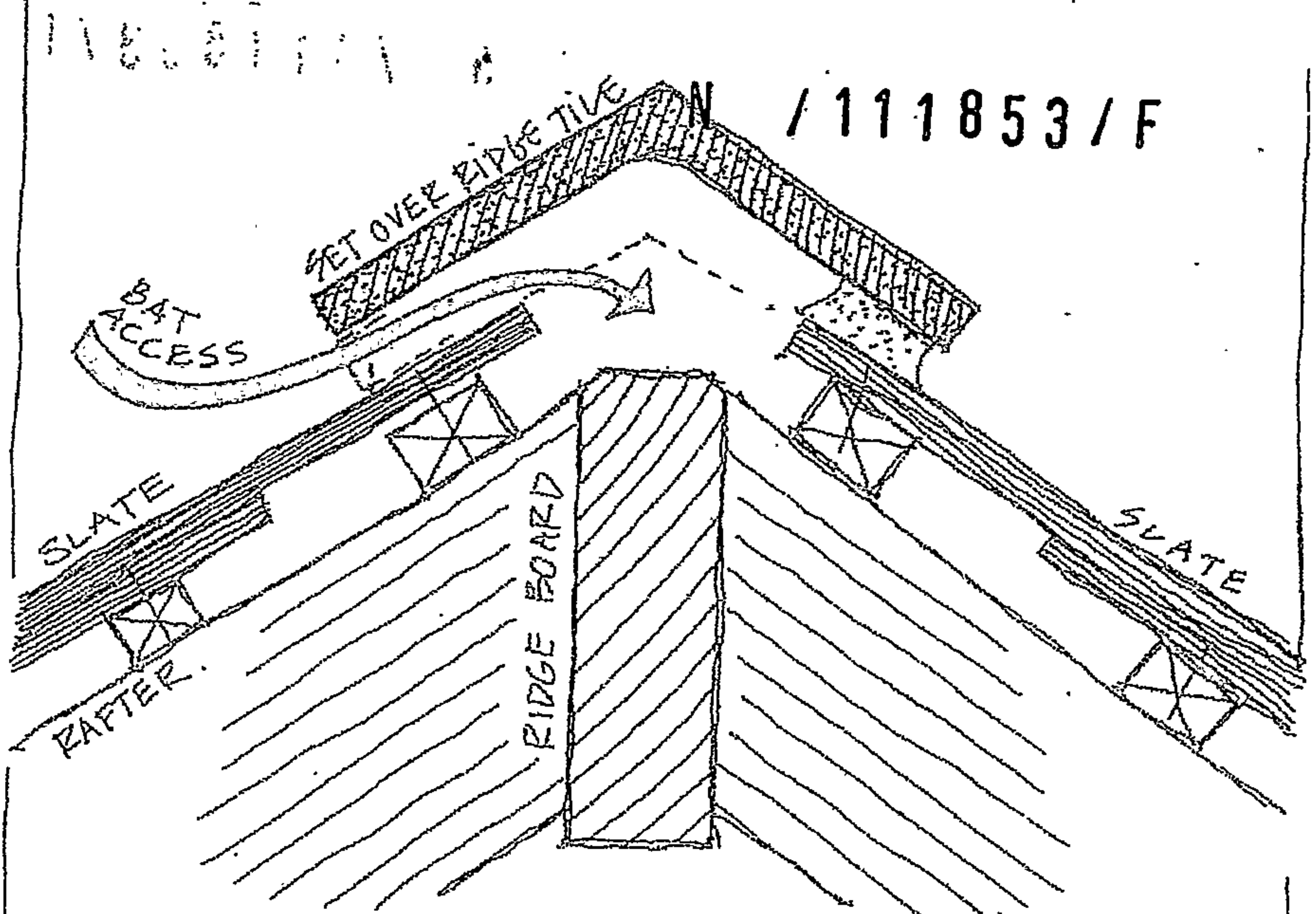


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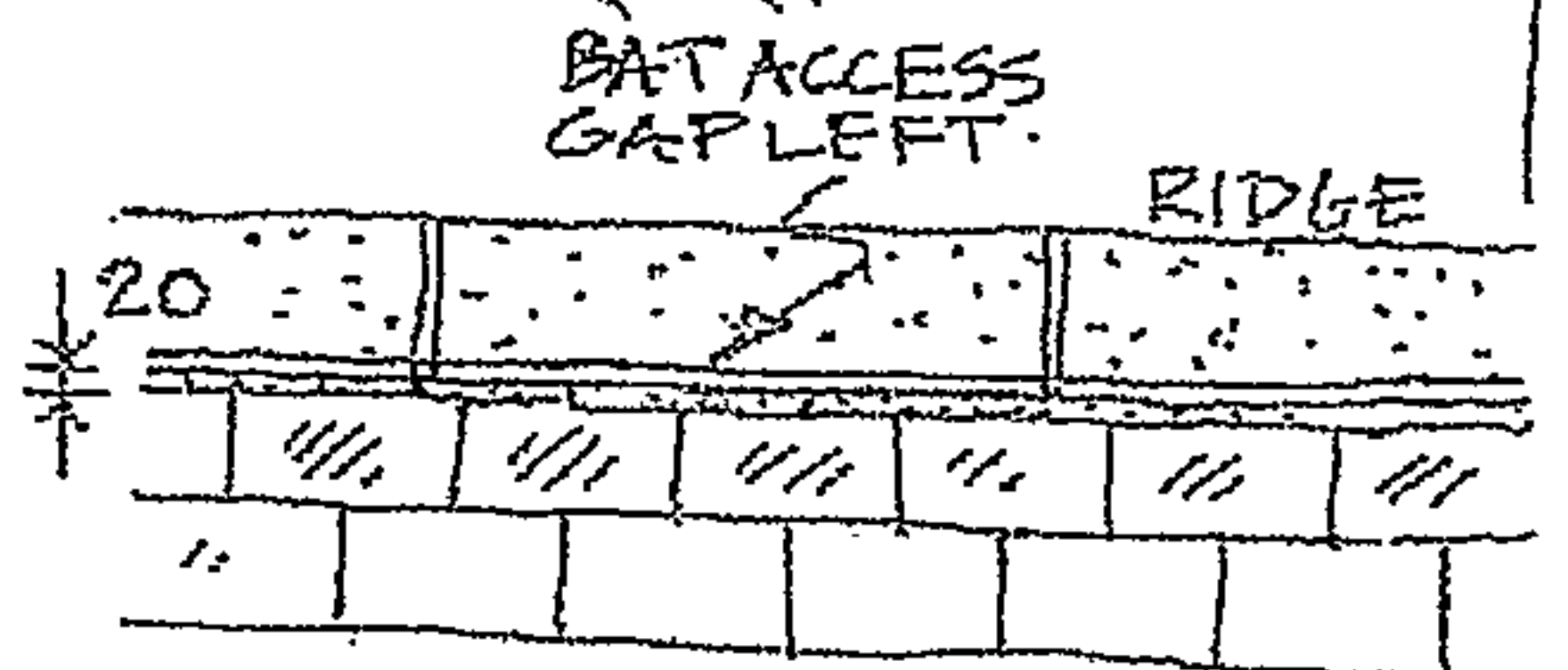
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The soffit boxes should have access for bats placed by allowing gaps in sections of them enabling bats to crawl up into the boxes voids after landing on the rough brickwork of the house walls.



~ OPTION A ~
ROOF RIDGE SET ON TOP
OF GENERAL RIDGE TILES
TO FORM BAT ACCESS GAP.



~ OPTION B ~
MAINTAIN 20MM MORTAR
GAP & LEAVE A SECTION
OUT.



SP
The above information is for guidance only and may not be appropriate in all circumstances, if in doubt seek professional advice.
English Nature Cumbria Team, Juniper House, Muncy Moss, Oxenholme Road, Kendal LA9 7RL Tel 01539 792600 Fax 01539 792633 Email cumbria@english-nature.org.uk

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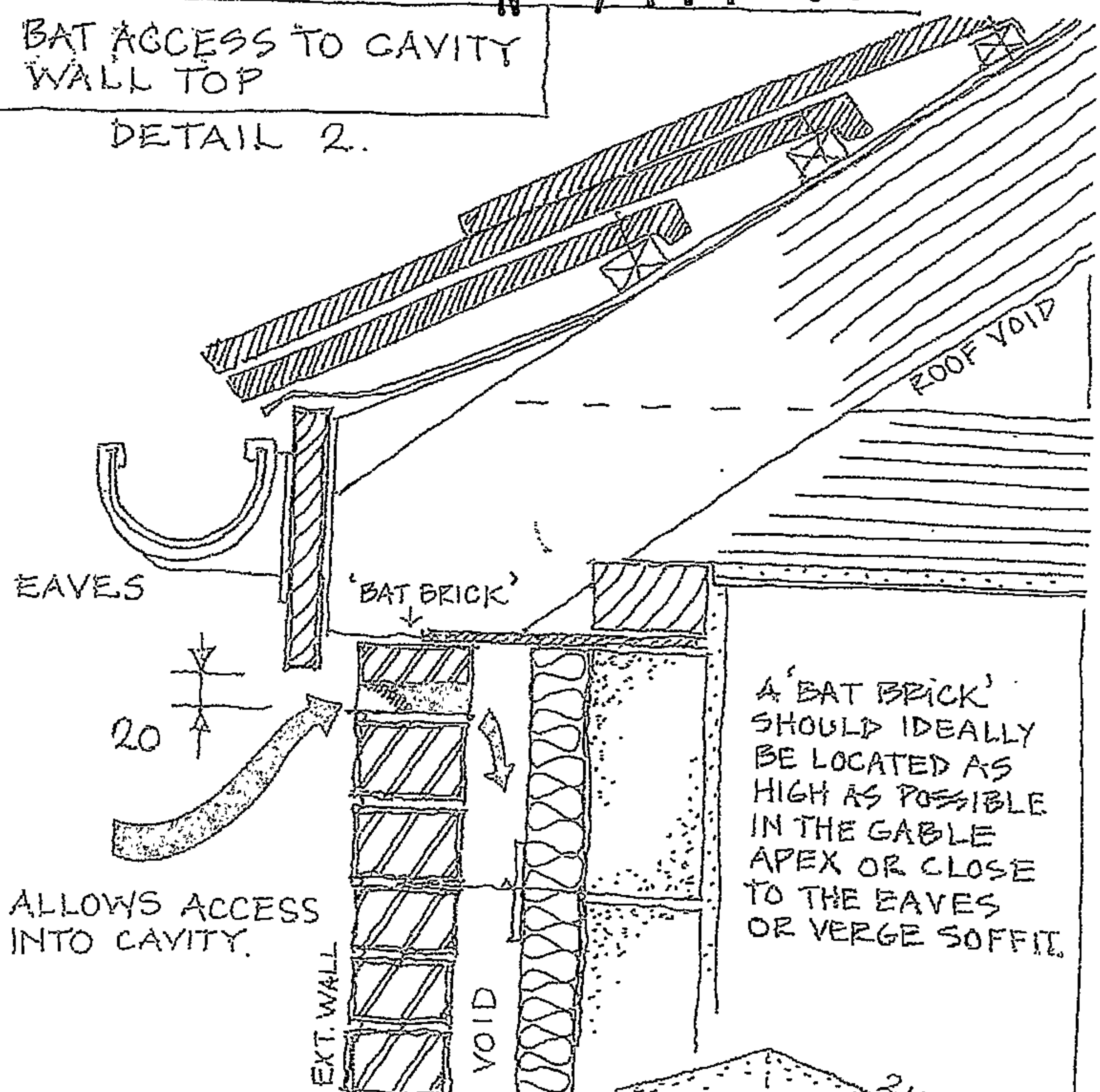
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BAT ACCESS TO CAVITY WALL TOP

DETAIL 2.



EAVES

'BAT BRICK'

ROOF VOID

20

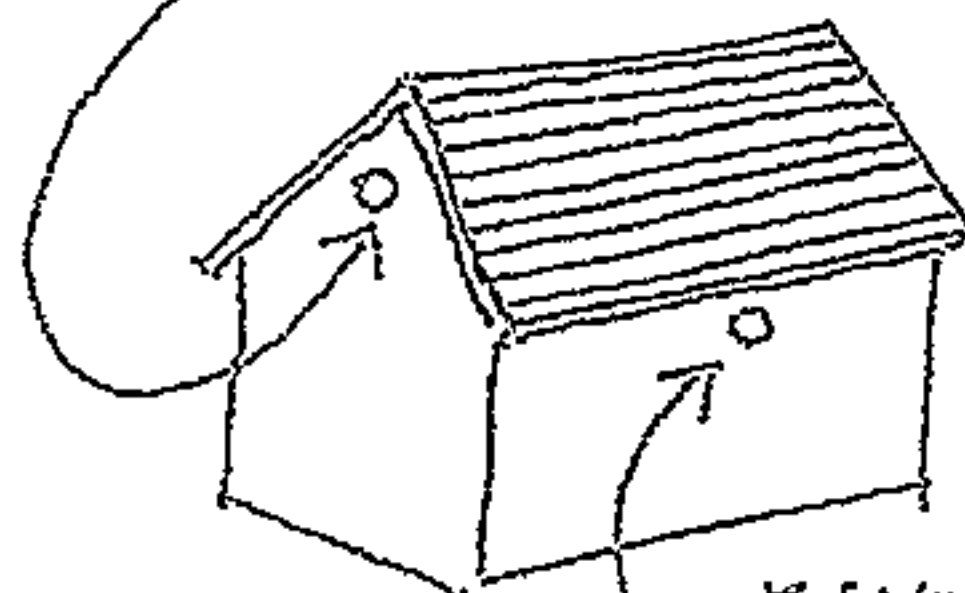
ALLOWS ACCESS
INTO CAVITY.

EXT. WALL

VOID

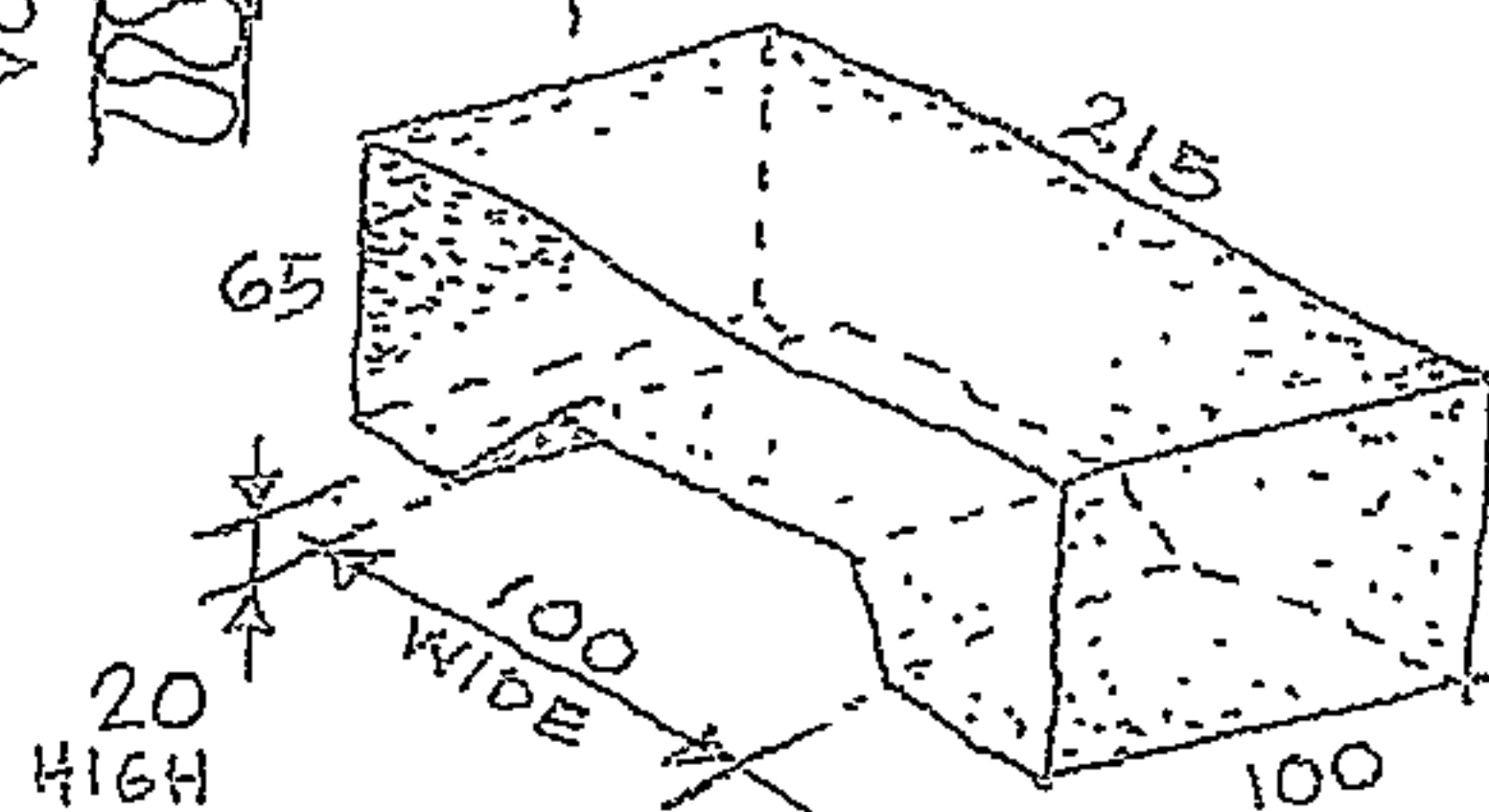
A 'BAT BRICK'
SHOULD IDEALLY
BE LOCATED AS
HIGH AS POSSIBLE
IN THE GABLE
APEX OR CLOSE
TO THE EAVES
OR VERGE SOFFIT.

GABLE END
LOCATION



- BAT BRICK -
POSITIONS

EAVES/SOFFIT
LOCATION



THE 'BAT BRICK'

ENGLISH
NATURE

SP

The above information is for guidance only and may not be appropriate in all circumstances. If in doubt seek professional advice.
English Nature Cumbria Team, Juniper House, Mufay House, Oxenholme Road, Kendal LA9 7RL. Tel: 01539 752800 Fax: 01539 792830 Email: cumbria@english-nature.nhs.uk



Appendix 6A

Personnel

N / 111853 / F

Alan Edwards is the Principal of Edwards Ecological & Environmental Services. The business is the culmination of a lifelong fascination with nature combined with more than forty years' experience in civil engineering, building construction (especially barn conversions) and property development. From a farming background he was regularly observing bats and other endangered species at close hand. Alan has now brought contact with bats to a much more formal footing, has engaged in professional training and been awarded full scientific bat licences from Natural England (20100998) and The Countryside Council for Wales (23943:OTH:CSAB:2010).

He has also been certificated by the Barn Owl Trust to apply for barn owl licences, has recently undertaken training in Otter surveying and mitigation techniques and is currently undergoing tuition towards Dormouse and Great Crested Newt licensing.

He is an active member of both Herefordshire's Action for Mammals; the Worcestershire Bat Group; and the Bat Conservation Trust. He is an IEEM Affiliate, and has assisted other Bat Consultants with commercial survey work.

Louise J Scott BSc Environmental Science (1995); BTEC ND Countryside Recreation; NEB Biological Surveying. Assistant Bat Surveyor. An active member of Herefordshire's Action for Mammals and Worcester Bat Groups, she is working towards a Bat licence. Louise has undertaken Biological Surveying contracts with Scottish Natural Heritage; Scottish Wildlife Trust; Stirling University and contributed to published papers. She has also trained and undertaken conservation work with The National Trust. A qualified Ranger, Louise spent a season working in British Columbia.

Nigel Hand Central Ecology

Specialist Ecologist of reptiles, amphibians and ponds with a Great Crested Newt Licence. Nigel is extending his current knowledge to incorporate surveying buildings and bat identification with The Bat Conservation Trust.

The contracts he has undertaken include: The Forestry Commission; Natural England; Herefordshire Nature Trust; Malvern Hills Conservators AONB; The National Trust. He has trained with: Herefordshire County Council Ecological Department and Biological Records Centre; Holme Lacey college; Forestry Commission; Hereford Nature Trust; Shropshire Wildlife Trust.

Nigel is well known to the BBC media and has numerous submissions to publications

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Survey 1 Collation Sheet

N / 111853 / F

Date	Location	Grid Ref	Survey Type
12.05.2011	Lower Castleton, Westhide, Herefordshire. HR1 3RF	SO594456	Dusk Emergence

Recorders	Equipment
Alan Edwards Nigel Hand Louise Scott	Anabat Batbox Duet Magenta

Time	Weather Air Temp °C	Cloud Cover %	Wind Beaufort scale	Rain
START 20.15	12	0	0	Nil
FINISH 22.15	9	0	0	Nil

Survey 1 Summary		Dusk Emergence 12.05.2011		
Time	Species	Number	Building	Activity
21.25 to 21.48	Common pipistrelle <i>Pipistrellus pipistrellus</i>	>8	Barn	Foraging over pond and around the E side of the barn. Observed commuting up and down the driveway around the barn.
21.24 to 21.57	Pipistrellus spp	>9	Barn	Foraging over pond and commuting along driveway. One seen flying over the roof and into tree on the E side of building.

E Emerging C Commuting F Foraging

Survey 1 Field Data						
Time	Species	E	C/F	Heard not seen	Seen not heard	Recorder & Comments
21.24	Pip					(L) E to W along path
21.25	Pip45					(A) From (N) to me then on to (L)
21.28	Pip				*	(N) Over roof into tree above car
21.31	Pip					(N) Seen and heard at end of house
21.33	Pip45					(A) From (L) to me
21.35	Pip45 x3		F			(A) Foraging over pond behind me. 6 mins. continuous
21.37	Pip			*		(N) Between (A) and (L) down drive
21.45	Pip45					(A) From pond towards road left to pigs
21.47	Pip		F	*		(N)
21.48	Pip45 x2		F			(A) Between me and (N)



Cont: Survey 1 Field Data 12.05.2011						
Time	Species	E	C/F	Heard not seen	Seen not heard	Recorder & Comments
21.49	Pip					(N)
21.53	Pip x2		F			(N) up and down lane around oast house
21.54	Pip					(N)
21.55	Pip					(L) E to W along path
21.57	Pip					(N) Moving from pond area around end of house towards front

E Emerging C Commuting F Foraging

N / 111853 / F

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Survey 2 Collation Sheet

N / 111853 / F

Date	Location	Grid Ref	Survey Type
02.06.2011	Lower Castleton, Westhide, Herefordshire. HR1 3RF	SO594456	Dusk Emergence

Recorders	Equipment
Alan Edwards Nigel Hand Louise Scott	Anabat Batbox Duet Magenta

Time	Weather Air Temp °C	Cloud Cover %	Wind Beaufort scale	Rain
START 21.00	18	10	0	Nil
FINISH 23.20				

Survey 2 Summary		Dusk Emergence 02.06.2011		
Time	Species	Number	Building	Activity
21.55 to 22.06	Common pipistrelle <i>Pipistrellus pipistrellus</i>	>6	Barn	Foraging activity over the roof and around the building. Coming from and returning W towards the fields.
22.31 to 23.08	Soprano pipistrelle <i>Pipistrellus pygmaeus</i>	>5	Barn	Foraging over lawn and along the driveway. Flying between the pond and fields to the W.
21.46 to 22.54	Pipistrellus Spp	>37	Barn	Mainly foraging activity recorded coming from upper storey main house area. Foraging around building, kilns, lawn, garden, trees and pond area.
22.03 to 22.57	Unidentified Bat <i>Chiroptera</i>	>6	Barn	Some foraging and commuting activity around the E face of the barn at the N end. One bat came over the roof and flew W into fields. Observed around pigsty area S of barn and pond.

E Emerging C Commuting F Foraging

Survey 2 Field Data						
Time	Species	E	C/F	Heard not seen	Seen not heard	Recorder & Comments
21.46	Pip		F			(N) From field to pond
21.48	Pip		F			(N) Front of main house between 2 upstairs buildings
21.55	Pip		F			(N) Over house below tree

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Cont: Survey 2 Field Data 02.06.2011						
Time	Species	E	C/F	Heard not seen	Seen not heard	Recorder & Comments
21.55	Pip45		F			(L) Over roof and around building several times.
21.56	Pip		F		*	(N) Around house down toward house
21.56	Pip		C			(L) Over roof and over my head
21.57	Plp		F			(N) Up from pond round end of house
21.57	Pip		F			(L) N side and around front of main house
21.57	Pip45		F			(A) From pond area
21.58	Pip		F			(N) Down and up between (A) and me
22.00	Pip x3		C			(L) From (N) over roof and around main house
22.03	Bat		C			(L) Quiet. Around N end of building
22.05	Bat		C			(L)
22.05	Pip		F			(N) around car down to pond area
22.06	Bat			*		(A) From pigsty area over me to pond
22.06	Pip45					(A) From pond area to (L)
22.07	Pip45 x3		F			(L) 3mins continuous over roof and side of building. Coming in and going out from W
22.08	Pip			*		(N)
22.11	Bat				*	(L) From (N) over roof going W
22.12	Pip				*	(N) circling in front of house
22.13	Pip			*		(N) around tree in yard
22.13	Pip x3					(L) From W around building and over roof for 2 mins.
22.14	Pip		F			(N) Up from pond. Out into field
22.15	Pip			*		(N) down towards pond
22.16	Pip		C			(L) Quiet. From front of house & over my head
22.17	Pip		F			(L) Over to pond
22.19	Pip		F		*	(N) Flying out from house over back garden
22.22	Pip			*		(N)
22.22	Pip		F			(L) On lawn
22.23	Bat					(A) From pigsty area over me to pond
22.23	Pip			*		(N) In yard
22.23	Pip		C			(L) From N to SW
22.24	Pip		F			(L) On lawn
22.25	Pip		F			(N) Flying around towers-kilns
22.29	Bat			*		(N) Over head

HEREF (b) OVERHEAD
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Cont 2: Survey 2 Field Data 02.06.2011						
Time	Species	E	C/F	Heard not seen	Seen not heard	Recorder & Comments
22.31	Pip		F	*		(N) Flighting around yard tree & kilns
22.31	Pip55		F			(L) On lawn then off to W
22.34	Pip x3		F			(L) On lawn
22.35	Pip		F	*		(N)
22.37	Pip		F			(N) Up from pond to side of house
22.38	Pip		F			(N)
22.40	Pip55 x2		F			(L) On lawn then towards pond
22.42	Pip55		F			(L) 2mins. foraging around building
22.54	Pip		F			(L) Over my head
22.57	Bat		F			(L)
23.08	Pip55		F			(L) Activity around lane & building

E Emerging C Commuting F Foraging



Survey 3 Collation Sheet N / 111853 / F

Date	Location	Grid Ref	Survey Type
21.06.2011	Lower Castleton, Westhild, Herefordshire HR1 3RF	SO594456	Dawn

Recorders	Equipment
Alan Edwards Louise Scott	Anabat Batbox Duet Magenta

Time	Weather Air Temp °C	Cloud Cover %	Wind Beaufort scale	Rain
START 03.10	14.8	90	1	Nil
FINISH 05.00				Spitting

Survey 3 Summary Dawn Swarming 21.06.2011				
Time	Species	Number	Building	Activity
03.17 to 04.23	Common pipistrelle <i>Pipistrellus pipistrellus</i>	>8	Barn	Foraging activity primarily over pond and around trees to the E of the building. One bat seen to roost under slate at RH apex on the S face.
04.14 to 04.23	Soprano pipistrelle <i>Pipistrellus pygmaeus</i>	>1	Barn	One bat circled on lawn and flew over roof to SE.
03.22 to 04.01	Pipistrellus Spp	>9	Barn	Primarily heard commuting along track area. Two bats seen to roost, circling then entering W face of building in gap under eaves at junction of brick to stone.
03.54	Unidentified Bat <i>Chiroptera</i>	1	Barn	Brief call heard on the W side of the building but not seen.

HEREFORDSHIRE COUNCIL
PLANNING SERVICES
DEVELOPMENT CONTROL

04 AUG 2011

R Roosting C Commuting F Foraging

Survey 3 Field Data							To
Time	Species	R	C/F	Heard not seen	Seen not heard	Recorder & Comments	
03.17	Pip45		F			(A) Over pond	
03.22	Pip			*		(L)	
03.23	Pip			*		(L) Came from track	
03.24	Pip45		F			(A) Over pond	



Cont: Survey 3 Field Data 21.06.2011 N / 111853 / F						
Time	Species	R	C/F	Heard not seen	Seen not heard	Recorder & Comments
03.32	Pip			*		(L) Came from track
03.47	Pip					(L) Over roof onto track
03.52	Pip45		C			(A) Over pond
03.54	Bat			*		(L) Brief call
03.56	Pip			*		(L) Flew towards track
03.59	Pip		F			(L) Behind
04.01	Pip					(L) From road to track
04.01	Pip45		F			(A) Over pond
04.04	Pip45		F			(A) Over pond & around trees
04.12	Pip45 x2		F			(A) Under ash tree
04.14	Pip55		F			(L) Circled on lawn & flew over roof SE
04.17	Pip45 x3		F			(A) Under ash tree
04.23	Pip45	R				(A) Under slate on RH apex
04.23	Pip x2	R				(L) Circled then entered building in gap under eaves at junction of brick to stone.

R Roosting C Commuting F Foraging