

Suncot
School Road
Barkham
Wokingham
RG41 4TR

Bat Emergence Survey

Report ref.: R2926_BES_a

Report Quality Control Information	
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1 EXECUTIVE SUMMARY

- 1.1.1** John Wenman Ecological Consultancy LLP was instructed by Ms Katie Chappell to undertake a Bat Emergence Survey (BES) at Suncot, School Lane, Barkham, Wokingham. The PRA was commissioned to accompany a householder planning application to be submitted to Wokingham Borough Council seeking consent for alterations to the roof and the erection of a rear and side extension to the property (Refer to **Appendix 3**).
- 1.1.2** The BES follows a Preliminary Roost Assessment for bats (PRA) conducted by John Wenman Ecological Consultancy in April 2025 (Report ref.: R2926_PRA_a). During the PRA two small sized bat droppings typical of crevice dwelling bats species such as the locally recorded common pipistrelle and soprano pipistrelle bat species, were found stuck on a gable end wall to the interior of the eave space. Furthermore potential roost features were identified externally including gaps under hanging tiles on the dormer windows and under hip tiles. Based on the findings in the PRA, the property was considered to have the potential to support use by individual or small numbers of crevice-dwelling bats and as such, has been classified as moderate suitability. In line with good practice guidelines (Collins 2023), two dusk emergence survey visits were undertaken on the 25th June and 31st July 2025.
- 1.1.3** A peak count of four common pipistrelle bats (*Pipistrellus pipistrellus*) were recorded emerging from three access points, including lifted roof tiles on the verge at the front of the house and gaps underneath hip tiles on the western and rear elevation. These findings, along with the observation one small sized bat dropping is consistent with the building acting as a day roost for small numbers of common pipistrelle (*P. pipistrellus*) bats.
- 1.1.4** The development proposals will directly lead to the permanent damage and disturbance of the day roosts within the property. Therefore, a European Protected Species Mitigation Licence (EPSML) or confirmation of the registration of the site under the Bat Mitigation Class Licence (BMCL) (Low Impact) WML-CL21 will be obtained.
- 1.1.5** This report contains information regarding a mobile species so it will likely be valid for up to 12 months only (CIEEM 2019b).

2 INTRODUCTION

2.1 Project Background

2.1.1 John Wenman Ecological Consultancy LLP was instructed Katie Chappell to undertake a Bat Emergence Survey (BES) at Suncot, School Lane, Barkham, Wokingham.

2.1.2 The survey was commissioned to accompany a planning application to be submitted to Wokingham Borough Council seeking consent for alterations to the roof and the erection of a rear and side extension to the property including the removal of roof tiles (refer to **Appendix 3**).

2.1.3 The Bat Emergence Survey follows a Preliminary Roost Assessment for bats (PRA) conducted by John Wenman Ecological Consultancy in April 2025 (Report ref.: R2926_PRA_a). The PRA report states the following:

*The roof void and eave space had limited space for internal flight and no bat droppings were found internally so the presence of void-dwelling bats is considered highly unlikely, such as brown long eared bat (*P. auritus*) recorded locally.*

Two small bat droppings typical of crevice dwelling bats were observed on the block work within the eave space, confirming the presence of a crevice dwelling bat species. Evidence of crevice roosting species is typically hidden from view in areas such as gaps between tiles and internal linings/insulation.

*The property had several potential bat access points to the exterior, such as gaps behind hanging tiles, under lifted roof tiles and gaps under the hip tiles around the property. The features identified have the potential to provide sufficient space, shelter, protection and conditions for use by individual crevice-dwelling bats, such as the locally recorded common pipistrelle (*Pipistrellus pipistrellus*) and soprano pipistrelle (*Pipistrellus pygmaeus*) bats.*

Due to the nature and scale of the potential roost sites, the house is considered to have the potential to support use by individual small crevice-dwelling bats and as such, has been classified as moderate suitability.

2.1.4 The PRA report recommends the following:

'A minimum of two dusk emergence survey visits should be undertaken in the period of May to September, with at least two of the surveys between May and August; the

survey visits should be spaced at least three weeks apart. If roosting bats are present, these survey visits enable the roost characterisation necessary to inform an impact assessment and mitigation strategy.'

2.2 Site Location and Context

2.2.1 The property is a detached house on the southern side of School Road, Barkham, Berkshire (central OS grid reference: SU 77176677).

2.2.2 The property is in a rural setting amongst a small cluster of residential properties situated along School Road and to the south along Langley Common Road. The surrounding landscape is primarily agricultural with a patch of scrub and scattered trees 80 m to the west and parcels of deciduous woodland. The closest woodland parcel is approximately 205 m to the southwest and 270 m to the northeast. There is a pond at Handpost Farm 45 m to the east; a suitable foraging resource for bats.

2.2.3 There are several patches of ancient and semi-natural woodland in the wider area, including The Coombes approximately 559m to the north-east, Kidgem Copse 482m to the south-east, Hazeltons Copse 780m south-west and Robinhood Copse 1763m south-west of the property. A stream runs approximately 315m north of the property, and is boarded by mature trees.

2.3 Report Objectives

2.3.1 The aim of the BES is to characterise the confirmed bat roosts and determine if there are any additional roosts present in the property. The emergence survey findings inform an impact assessment and mitigation strategy for the development proposals and ascertain whether a European Protected Species (EPS) mitigation licence would be required to allow the works to proceed lawfully.

3 LEGISLATIVE AND POLICY BACKGROUND

3.1 Relevant Legislation

3.1.1 In England and Wales, all bat species found in the wild are fully protected under the Wildlife & Countryside Act 1981 (as amended) (WCA) and Conservation of Habitats and Species Regulations 2017 (as amended); the regulations are commonly referred to as the Habitat Regulations and hereafter referred to as such. The Habitat Regulations refer to European Protected Species (EPS) and all species of bats in the United Kingdom (UK) are EPS. Although the UK left the European Union on the 31st January 2020 and is therefore no longer tied to European legislation, the Habitat Regulations have been retained in their current format.

3.1.2 The legal framework underpinned by the WCA and Habitat Regulations makes these specific actions an offence as follows:

- Deliberately kill, injure, capture or take a wild bat;
- Deliberately, intentionally or recklessly disturb bats; in particular any disturbance which is likely to impair their ability to survive, to breed or reproduce, to rear or nurture their young, to hibernate or migrate, or to significantly affect local distribution or abundance;
- Damage or destroy a place used by a bat for breeding or resting; and
- Intentionally or recklessly obstruct access to any place used by a bat for shelter or protection.

3.2 Planning Policy

3.2.1 The biodiversity duty imposed through the Environment Act 2021 states that Local Planning Authorities (LPAs) must consider what action they can take to conserve and enhance biodiversity in England. Government planning policy, such as the ODPM Circular 06/2005, requires LPAs to account for the conservation of protected species when considering and determining planning applications.

3.2.2 The ODPM Circular 06/2005 states that ‘the presence of a protected species is a material consideration when a planning authority is considering a development proposal that, if carried out, would be likely to result in harm to the species or its habitat.’ This policy means that in instances where there is a reasonable likelihood of bats being present and affected by a development, surveys must be undertaken to inform a mitigation strategy to be agreed prior to granting planning permission.

3.3 Mitigation Licensing

3.3.1 The government's statutory nature conservation body, Natural England, is responsible for issuing European Protected Species (EPS) mitigation licences that would permit activities that would otherwise lead to an infringement of the Habitat Regulations. An EPS mitigation licence can be issued if the following three tests derived from Regulation 55 have been satisfied:

- (2)(e) – the derogation is for the purposes 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 for the environment.'*
- (9)(a) – there is *'no satisfactory alternative'* to the derogation; and
- (9)(b) – *'the action authorised will not be detrimental to the maintenance of the population of the species concerned at a favourable conservation status in their natural range.'*

3.3.2 LPAs have a statutory duty under Regulation 7(3)(e) of the Habitat Regulations to consider and determine whether these three tests are likely to be satisfied by planning proposals affecting EPS before granting planning permission. If an EPS mitigation licence is necessary, a licence can be sought once all the necessary planning consents have been granted. Natural England aims to issue a decision on licence applications within 30 working days of submission.

3.3.3 The Bat Mitigation Class Licence (BMCL) scheme allows ecologists to apply to become Registered Consultants to use this licence for low conservation status roosts, i.e. roosts comprising small numbers of seven commonly occurring species. A site registration form must be completed as a condition of the licence and submitted to Natural England at least three weeks before the licensable activities are due to start; Natural England aims to register sites within two weeks of submission.

3.3.4 Baseline survey information supporting EPS mitigation licence applications or BMCL site registrations must be up-to-date and have been completed within the current or most recent optimal season. A suitably experienced ecologist will be required to undertake a site walkover/check within three months prior to application/registration submission to confirm that conditions have not changed since the most recent survey.

4 SURVEY METHODOLOGY

4.1 Background Data Search

- 4.1.1 The Berkshire & South Buckinghamshire Bat Group (BSBBG) were commissioned to undertake a search of their records within a 2 kilometre radius of the property.

4.2 Emergence Survey

- 4.2.1 In line with good practice guidelines (Collins 2023), two dusk emergence survey visits were undertaken for the property on the 25th June and 31st July 2025. The survey visits were undertaken by bat surveyors Amy Denness (CL20: 2017-30082-CLS-CLS), Emma Turnbull (CL20: 2022-10825-CL20-BAT), Jake Morgan – a qualifying member of CIEEM, Verity West – a qualifying member of CIEEM, Lauren Hayward – a qualifying member of CIEEM and Robert Brittain. Three surveyors covered all aspects of the property – refer to emergence survey plan in **Section 5** below.
- 4.2.2 The equipment used during the survey included full-spectrum sampling bat detectors (Batlogger M, Batlogger M2 and Echo Meter Touch 2) and infrared/thermal imaging night vision aids (Canon XA30 with infrared floodlights / torches, Pixfra ARC A613, Sionyx Aurora Pro with infrared floodlights/torches, Sony FDR-AX53 with Nightshot and infrared floodlights/torches, Pulsar XP20, Guide TK612 and Nightfox Whisker). A still shot of the darkest point/viewpoint of the surveys has been included for all night vision aids in **Appendix 1**.
- 4.2.3 The emergence surveys started 15 minutes before sunset and continued for 1 hour and 30 minutes after sunset. Within a five-day period after the survey, the bat call recordings were processed and analysed using the BatExplorer and Kaleidoscope Lite computer software packages and the night vision video footage was reviewed in the VLC Media Player.
- ### 4.3 Survey Limitations and Report Validity
- 4.3.1 There were no significant constraints to the bat emergence surveys, which were undertaken during the optimal survey season, i.e. May to August, (particularly for detecting and characterising breeding roosts) and in conditions suitable for bat activity, i.e. dry and calm with air temperatures 10°C or above at sunset (Collins 2023).
- 4.3.2 This report contains information regarding a mobile species so it will likely be valid for up to 12 months only (CIEEM 2019b).

5 SURVEY RESULTS

5.1 Overview

- 5.1.1** The results from the data search are detailed below. The bat emergence survey findings are described, summarised in **Tables 1 – 6** and **Photographs 1 & 2**, and illustrated in **Figures 1 & 2** below; the raw detector data is supplied in **Appendix 2**.

5.2 Background Data Search

- 5.2.1** The BSBBG data search revealed that at least eight species have been recorded locally within the last 10 years: Serotine (*Eptesicus serotinus*), noctule (*Nyctalus noctula*), Nathusius' pipistrelle (*Pipistrellus nathusii*), common pipistrelle (*Pipistrellus pipistrellus*), soprano pipistrelle (*Pipistrellus pygmaeus*), Natterer's bat (*Myotis nattereri*), Daubenton's bat (*Myotis daubentonii*) and brown long-eared (*Plecotus auritus*). The nearest records are for *P. auritus*, *N. noctula*, *Myotis daubentonii*, *P. pipistrellus*, *P. nathusii* and *P. pygmaeus* recorded during an internal inspection and emergence survey at two residential properties located on School Road, Barkham, within 105 metres northeast of the house.

5.3 Emergence Survey

25th June 2025

- 5.3.1** No bats were observed emerging from the house during the first survey. However, high levels of foraging activity from common pipistrelle (*Pipistrellus pipistrellus*) and noctule (*Nyctalus noctula*) bats were recorded by all surveyors. Furthermore, all surveyors recorded occasional passes by soprano pipistrelle (*Pipistrellus pygmaeus*) and surveyors at Surveyor Location 1 and 2 recorded occasional passes from brown long-eared (*Plecotus auritus*) bats.

Table 1. Weather conditions and survey timings

Weather	Wind (BF0-12)	Cloud cover (%)	Rain	Temperature (°C)	
	1	5	None	Start	Finish
Start	21:09	Sunset	21:24	Finish	22:54

Table 2a. Surveyor recordings at location 1

Species	Recordings*	Emergences†	Time of first call (minutes after sunset)
Common pipistrelle (<i>Pipistrellus pipistrellus</i>)	49	0	21:40 (16 mins)
Soprano pipistrelle (<i>Pipistrellus pygmaeus</i>)	6	0	22:12 (48 mins)

Social calls	1	0	21:59 (32 mins)
Brown long-eared (<i>Plecotus auritus</i>)	1	0	22:29 (65 mins)
Noctule (<i>Nyctalus noctule</i>)	20	0	21:36 (12 mins)

Table 2b. Surveyor recordings at location 2

Species	Recordings*	Emergences†	Time of first call (minutes after sunset)
Common pipistrelle (<i>Pipistrellus pipistrellus</i>)	44	0	21:40 (16 mins)
Soprano pipistrelle (<i>Pipistrellus pygmaeus</i>)	1	0	22:29 (65 mins)
Social calls	1	0	21:59 (32 mins)
Brown long-eared (<i>Plecotus auritus</i>)	2	0	22:24 (60 mins)
Noctule (<i>Nyctalus noctule</i>)	9	0	21:36 (12 mins)

Table 2c. Surveyor recordings at location 3

Species	Recordings*	Emergences†	Time of first call (minutes after sunset)
Common pipistrelle (<i>Pipistrellus pipistrellus</i>)	88	0	21:48 (24 mins)
Soprano pipistrelle (<i>Pipistrellus pygmaeus</i>)	6	0	22:15 (51 mins)
Serotine (<i>Eptesicus serotinus</i>)	3	0	22:31 (67 mins)
Noctule (<i>Nyctalus noctule</i>)	11	0	21:36 (12 mins)

*recordings are the number of times that the detector was triggered when bat calls were detected.

†confirmed by direct observation and/or night vision aid.

5.3.2 The first recorded bat was a noctule (*Nyctalus noctula*) heard by all surveyors at 21:36 (12 minutes after sunset). Soprano pipistrelle (*Pipistrellus pygmaeus*), brown long-eared (*Plecotus auritus*), and serotine (*Eptesicus serotinus*) were first recorded at 22:15 (51 minutes after sunset), 22:29 (65 minutes after sunset) and 22:31 (67 minutes after sunset) respectively, which falls outside the typical emergence period for these species.

5.3.3 Activity was generally high with frequent common pipistrelle (*Pipistrellus pipistrellus*) foraging activity across all elevations of the building, and over the boundary hedgerows to the east and west.

31st July 2025

5.3.4 Four common pipistrelle (*Pipistrellus pipistrellus*) bats were observed emerging from three access points on the rear elevation of the building by the surveyors at Survey

Location 1 and 2 between 21:09 (17 minutes after sunset) and 21:15 (13 minutes after sunset) (**Photographs 1 and 2**). The emergences were from roof tiles at the front house near the verge, hip tiles on the north west side of the house and gaps underneath the hip tiles at the rear of the house.



Photograph 1. Common pipistrelle emergence points.



Photograph 2. Common pipistrelle emergence points.

Table 3. Weather conditions and survey timings

Weather	Wind (BF0-12)	Cloud cover (%)	Rain	Temperature (°C)	
	1-2	15	None	Start	Finish
Start	20:37	Sunset	20:52	Finish	22:22

Table 4a. Surveyor recordings at location 1

Species	Recordings*	Emergences†	Time of first call (minutes after sunset)
Common pipistrelle (<i>Pipistrellus pipistrellus</i>)	33	2 (@21:14 and 21:15)	21:02 (10 mins)
Brown long-eared (<i>Plecotus auritus</i>)	4	0	21:57 (65 mins)
Noctule (<i>Nyctalus noctule</i>)	9	0	21:08 (16 mins)

Table 4b. Surveyor recordings at location 2

Species	Recordings*	Emergences†	Time of first call (minutes after sunset)
Common pipistrelle (<i>Pipistrellus pipistrellus</i>)	196	2 (@21:09 and 21:12)	21:01 (9 mins)
Brown long-eared (<i>Plecotus auritus</i>)	1	0	22:02 (70 mins)

Table 4c. Surveyor recordings at location 3

Species	Recordings*	Emergences†	Time of first call (minutes after sunset)
Common pipistrelle (<i>Pipistrellus pipistrellus</i>)	69	0	21:12 (20 mins)

*recordings are the number of times that the detector was triggered when bat calls were detected.

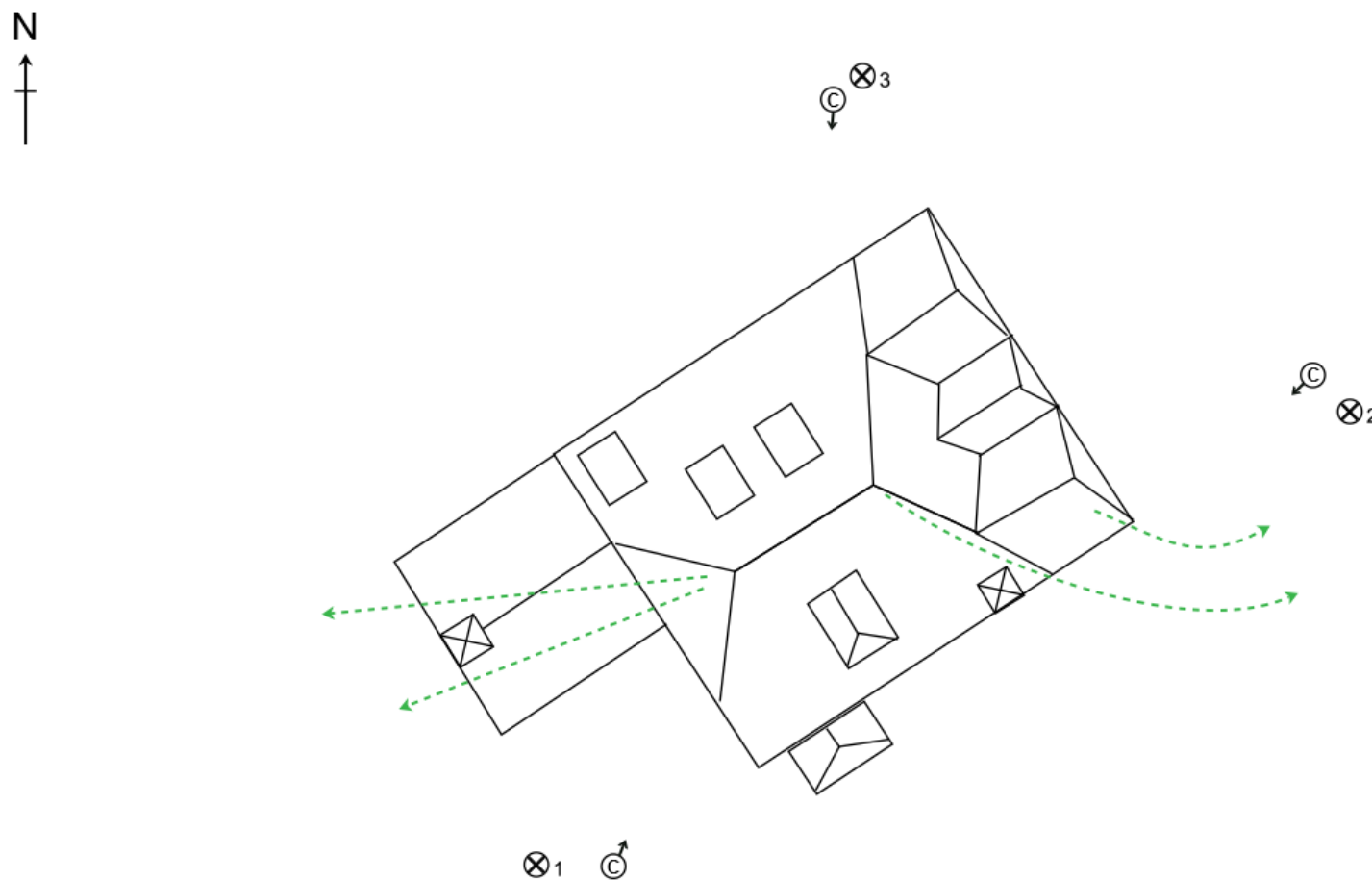
†confirmed by direct observation and/or night vision aid.

5.3.5 The first recorded bat was a noctule (*Nyctalus noctule*) at 20:51 (1 minute before

sunset) by surveyor at Surveyor Location 1. Brown long-eared (*Plecotus auritus*) bats were recorded by the surveyor at Surveyor Location 1 and 2 at 21:57 (65 minutes after sunset) and 22:02 (70 minutes before sunset) which does not fall within the typical emergence period of this species, indicating that this species is not roosting nearby.

- 5.3.6** Activity was high throughout the survey with *P. pipistrellus* foraging activity across the all elevations of the building, within the front and rear garden and along the hedgerow and mature trees to the east of the house and the neighbouring properties front garden to the north.

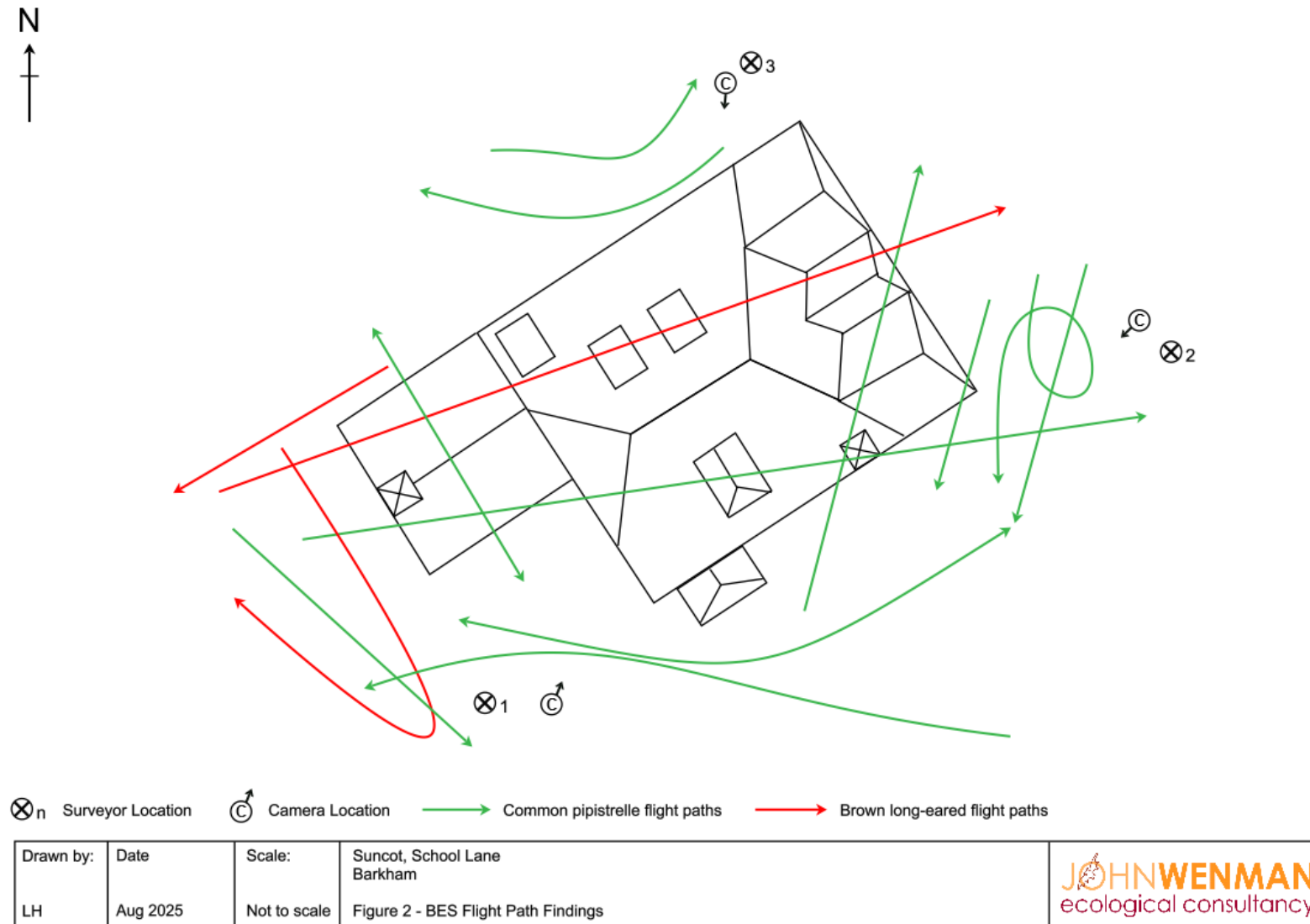
Figure 1 – Bat Emergence Survey Findings – Emergence Locations



⊗ n Surveyor Location
 Ⓒ Camera Location
 - - - - - Common pipistrelle emergence

Drawn by:	Date	Scale:	Suncot, School Lane Barkham	
LH	Aug 2025	Not to scale	Figure 1 - Bat Survey Emergence Findings	

Figure 2 - Bat Emergence Survey Findings - Activity



6 DISCUSSION AND RECOMMENDATIONS

6.1 Assessment of Bat Roost Status

6.1.1 During the emergence surveys, a peak count of four common pipistrelle bats (*Pipistrellus pipistrellus*) were recorded emerging from three different access points situated on the front, western and rear elevations of the property. These features included lifted roof tiles on the verge at the front of the house and gaps underneath hip tiles on the western and rear elevations (**Photographs 1 and 2**). These findings, along with the observation one small sized bat dropping stuck on a gable end wall to the interior of the eave space during the PRA, is consistent with the building acting as a day roost with three separate roosting locations using four access points (i.e. summer resting place used by individual or small groups of male or non-breeding bats) for common pipistrelle bats (*P. pipistrellus*).

6.1.2 Common pipistrelle (*P. pipistrellus*) are crevice-dwelling species that are one of the most abundant and widespread bats in Great Britain. This species occurs in almost any habitat type and is well adapted to the built environments; they are one of the species most regularly reported roosting in houses and churches (Mathews et al. 2018). Day roosts of this species hold site level conservation importance only and the loss of such roosts is not usually significant beyond the scale of the site (Reason & Wray 2023).

6.2 Impact Assessment

6.2.1 The survey data demonstrates that the planning application seeking consent alterations to the roof and the erection of a rear and side extension to the property, including the removal of roof tiles (refer to **Appendix 3**) will result in the permanent damage of confirmed common pipistrelle bat (*P. pipistrellus*) day roosts. In the absence of mitigation measures, the works could cause disturbance, injury and or death of bats.

6.2.2 A European Protected Species Mitigation Licence (EPSML) will be required to allow the work to proceed lawfully, and the survey findings establish that the site would qualify for registration under the 'low impact' Bat Mitigation Class Licence (BMCL) WML-CL21. Under the terms of a full EPSML or BMCL, mitigation for the impacts of the work will be required in order to avoid harming bats and the mitigation proposals detailing the strategy to be adopted are set out in **Section 7** below.

7 MITIGATION PROPOSALS

- 7.1.1** Before the licensable work commences i.e. removal of roof coverings associated with the roost, a European Protected Species Mitigation Licence (EPSML) or confirmation of the registration of the site under the Bat Mitigation Class Licence (BMCL) (Low Impact) WML-CL21 will be obtained. The presence of three day roosts falls under the criteria for the BMCL.
- 7.1.2** Before the soft strip begins, the licensed ecologist or 'Registered Consultant' if working under the BMCL, will give a toolbox talk to the contractors on site detailing bats are present, the legislation protecting bats, the location of the roost sites in the property, good working practices, the measures that are required to protect bats during the work and what to do if bats are found. A copy of the licence will be available for inspection on site during all licensable works.
- 7.1.3** The soft strip will be undertaken outside of the winter hibernation season (mid-November to February) to minimise the risk of disturbing torpid bats. A woodcrete bat box will be fixed to a suitable mature tree or purpose-built pole on site prior to the works starting and will be in place for a minimum of five years (boxes can only be removed after the five years if no evidence of use has been found at this stage).
- 7.1.4** The roof tiles and hanging tiles on the dormer windows will be carefully removed by gloved hands under the supervision of a licensed ecologist, or Registered Consultant if working under the BMCL. If bat(s) are discovered during the work, the licensed ecologist or Registered Consultant would capture the bat(s) and transfer it/them directly to a bat box erected in advance of the works.
- 7.1.5** In the long-term, further roosting opportunities will be created with the addition of purpose made access gaps underneath roof tiles, such as bat tiles, located at the western and front elevations in similar orientations to the emergences. Therefore the property will continue to provide roosting opportunities for common pipistrelle and other crevice-dwelling bats (refer to **Figure 3**).
- 7.1.6** Any insulation/lining to be used under the new roof will either be a bituminous 1F felt or a bat safe roofing membrane with a certificate that proves that it has passed Natural England's 'snagging propensity test'.



PROPOSED FRONT (NORTH-EAST) ELEVATION



PROPOSED SIDE (SOUTH-EAST) ELEVATION

 Bat access tile

Drawn by: Silva Architecture Annotated By: VP	Date Aug 2025	Scale: Not to scale	Suncot, School Lane Barkham Figure 3 - Bat Roost Mitigation Plan	
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Figure 3 – Bat Roost Mitigation

8 REFERENCES

CIEEM (2019b). *Advice Note on the Lifespan of Ecological Reports and Surveys*. CIEEM, Winchester.

Collins, J (ed.) (2023). *Bat Surveys for Professional Ecologists: Good Practice Guidelines (4th edition)*. The Bat Conservation Trust, London.

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APPENDIX 1 – DARKEST POINT OF SURVEY AND/OR VIEWPOINT FOR NIGHT VISION AIDS

25th June 2025



Guide TK612 at Surveyor Location 1.



Sony FDR Ax53 at Surveyor Location 2.



Sionyx Aurora Pro at Surveyor Location 3.

31st July 2025



Canon XA30 at Surveyor Location 1.

01:43:05



Pixfra ARC A613 at Surveyor Location 3.



Pixfra ARC A613 at Surveyor Location 2.

22:00

APPENDIX 2 – BAT EMERGENCE SURVEY RAW DATA TABLES

25th June 2025

Surveyor Location 1 – Batlogger M2

Time	Species	Number of calls [#]
21:36	<i>Nyctalus noctula</i>	5
21:37	<i>Nyctalus noctula</i>	10
21:40	<i>Pipistrellus pipistrellus</i>	27
21:43	<i>Nyctalus noctula</i>	4
21:44	<i>Nyctalus noctula</i>	7
21:55	<i>Pipistrellus pipistrellus</i>	14
21:59	<i>Pipistrellus pipistrellus</i>	18
21:59	<i>Social</i>	2
22:01	<i>Nyctalus noctula</i>	6
22:01	<i>Nyctalus noctula</i>	12
22:01	<i>Nyctalus noctula</i>	9
22:03	<i>Nyctalus noctula</i>	6
22:03	<i>Nyctalus noctula</i>	10
22:03	<i>Nyctalus noctula</i>	4
22:03	<i>Nyctalus noctula</i>	9
22:03	<i>Nyctalus noctula</i>	5
22:03	<i>Nyctalus noctula</i>	3
22:03	<i>Nyctalus noctula</i>	4
22:06	<i>Pipistrellus pipistrellus</i>	5
22:07	<i>Pipistrellus pipistrellus</i>	28
22:09	<i>Pipistrellus pipistrellus</i>	20
22:10	<i>Nyctalus noctula</i>	1
22:11	<i>Nyctalus noctula</i>	4
22:12	<i>Nyctalus noctula</i>	1
22:12	<i>Pipistrellus pipistrellus</i>	25
22:12	<i>Pipistrellus pygmaeus</i>	5
22:12	<i>Pipistrellus pipistrellus</i>	19
22:14	<i>Pipistrellus pipistrellus</i>	15
22:15	<i>Pipistrellus pipistrellus</i>	0
22:15	<i>Pipistrellus pipistrellus</i>	8
22:15	<i>Pipistrellus pipistrellus</i>	8
22:15	<i>Pipistrellus pipistrellus</i>	14
22:15	<i>Pipistrellus pygmaeus</i>	11
22:15	<i>Pipistrellus pipistrellus</i>	8
22:15	<i>Pipistrellus pipistrellus</i>	13
22:16	<i>Pipistrellus pipistrellus</i>	17
22:16	<i>Pipistrellus pipistrellus</i>	4
22:16	<i>Pipistrellus pygmaeus</i>	4
22:16	<i>Pipistrellus pipistrellus</i>	11
22:18	<i>Pipistrellus pygmaeus</i>	7

22:19	<i>Pipistrellus pygmaeus</i>	9
22:20	<i>Pipistrellus pipistrellus</i>	14
22:20	<i>Pipistrellus pipistrellus</i>	11
22:20	<i>Pipistrellus pipistrellus</i>	8
22:20	<i>Pipistrellus pipistrellus</i>	2
22:21	<i>Pipistrellus pipistrellus</i>	6
22:21	<i>Pipistrellus pipistrellus</i>	11
22:21	<i>Pipistrellus pipistrellus</i>	9
22:21	<i>Pipistrellus pipistrellus</i>	7
22:22	<i>Pipistrellus pipistrellus</i>	6
22:23	<i>Pipistrellus pipistrellus</i>	4
22:23	<i>Pipistrellus pipistrellus</i>	10
22:23	<i>Pipistrellus pipistrellus</i>	23
22:24	<i>Pipistrellus pipistrellus</i>	9
22:26	<i>Pipistrellus pipistrellus</i>	9
22:26	<i>Pipistrellus pipistrellus</i>	29
22:26	<i>Pipistrellus pipistrellus</i>	6
22:26	<i>Pipistrellus pipistrellus</i>	10
22:26	<i>Pipistrellus pipistrellus</i>	5
22:27	<i>Pipistrellus pipistrellus</i>	25
22:27	<i>Pipistrellus pipistrellus</i>	17
22:27	<i>Pipistrellus pipistrellus</i>	23
22:27	<i>Pipistrellus pipistrellus</i>	5
22:28	<i>Pipistrellus pipistrellus</i>	3
22:28	<i>Pipistrellus pipistrellus</i>	26
22:29	<i>Plecotus auritus</i>	3
22:29	<i>Pipistrellus pipistrellus</i>	14
22:29	<i>Pipistrellus pipistrellus</i>	4
22:29	<i>Pipistrellus pipistrellus</i>	12
22:30	<i>Pipistrellus pipistrellus</i>	6
22:30	<i>Pipistrellus pipistrellus</i>	44
22:30	<i>Pipistrellus pipistrellus</i>	10
22:31	<i>Pipistrellus pygmaeus</i>	7
22:31	<i>Pipistrellus pipistrellus</i>	22
22:31	<i>Nyctalus noctula</i>	1
22:31	<i>Nyctalus noctula</i>	4
22:31	<i>Nyctalus noctula</i>	7

Surveyor Location 2 – Batlogger M2

Time	Species	Number of calls [#]
21:36	<i>Nyctalus noctula</i>	3
21:36	<i>Nyctalus noctula</i>	10
21:40	<i>Pipistrellus pipistrellus</i>	18
21:43	<i>Nyctalus noctula</i>	3
21:58	<i>Pipistrellus pipistrellus</i>	4
21:59	<i>Pipistrellus pipistrellus</i>	2

21:59	<i>Social</i>	1
22:00	<i>Nyctalus noctula</i>	13
22:02	<i>Nyctalus noctula</i>	18
22:03	<i>Nyctalus noctula</i>	2
22:03	<i>Nyctalus noctula</i>	4
22:06	<i>Pipistrellus pipistrellus</i>	1
22:06	<i>Pipistrellus pipistrellus</i>	10
22:09	<i>Pipistrellus pipistrellus</i>	13
22:09	<i>Pipistrellus pipistrellus</i>	10
22:15	<i>Pipistrellus pipistrellus</i>	17
22:15	<i>Pipistrellus pipistrellus</i>	16
22:15	<i>Pipistrellus pipistrellus</i>	8
22:15	<i>Pipistrellus pipistrellus</i>	6
22:16	<i>Pipistrellus pipistrellus</i>	7
22:20	<i>Pipistrellus pipistrellus</i>	12
22:21	<i>Pipistrellus pipistrellus</i>	12
22:22	<i>Pipistrellus pipistrellus</i>	11
22:23	<i>Pipistrellus pipistrellus</i>	13
22:24	<i>Plecotus auritus</i>	1
22:26	<i>Pipistrellus pipistrellus</i>	24
22:27	<i>Pipistrellus pipistrellus</i>	8
22:27	<i>Pipistrellus pipistrellus</i>	16
22:29	<i>Pipistrellus pygmaeus</i>	6
22:31	<i>Pipistrellus pipistrellus</i>	16
22:32	<i>Pipistrellus pipistrellus</i>	9
22:34	<i>Pipistrellus pipistrellus</i>	29
22:38	<i>Plecotus auritus</i>	19
22:39	<i>Pipistrellus pipistrellus</i>	19
22:39	<i>Pipistrellus pipistrellus</i>	45
22:39	<i>Pipistrellus pipistrellus</i>	19
22:39	<i>Pipistrellus pipistrellus</i>	28
22:41	<i>Nyctalus noctula</i>	4
22:41	<i>Nyctalus noctula</i>	4
22:42	<i>Pipistrellus pipistrellus</i>	22
22:42	<i>Pipistrellus pipistrellus</i>	18
22:44	<i>Pipistrellus pipistrellus</i>	19
22:45	<i>Pipistrellus pipistrellus</i>	19
22:45	<i>Pipistrellus pipistrellus</i>	38
22:45	<i>Pipistrellus pipistrellus</i>	8
22:46	<i>Pipistrellus pipistrellus</i>	35
22:48	<i>Pipistrellus pipistrellus</i>	46
22:48	<i>Pipistrellus pipistrellus</i>	31
22:48	<i>Pipistrellus pipistrellus</i>	1
22:49	<i>Pipistrellus pipistrellus</i>	15
22:50	<i>Pipistrellus pipistrellus</i>	10
22:51	<i>Pipistrellus pipistrellus</i>	25
22:52	<i>Pipistrellus pipistrellus</i>	30

22:52	<i>Pipistrellus pipistrellus</i>	19
22:53	<i>Pipistrellus pipistrellus</i>	24
22:53	<i>Pipistrellus pipistrellus</i>	3
22:53	<i>Pipistrellus pipistrellus</i>	20

Surveyor Location 3 – Batlogger

Time	Species	Number of calls [#]
21:36	<i>Nyctalus noctula</i>	2
21:36	<i>Nyctalus noctula</i>	2
21:36	<i>Nyctalus noctula</i>	8
21:37	<i>Nyctalus noctula</i>	5
21:43	<i>Nyctalus noctula</i>	1
21:43	<i>Nyctalus noctula</i>	1
21:44	<i>Nyctalus noctula</i>	2
21:48	<i>Pipistrellus pipistrellus</i>	9
21:52	<i>Pipistrellus pipistrellus</i>	5
22:00	<i>Pipistrellus pipistrellus</i>	4
22:00	<i>Nyctalus noctula</i>	6
22:00	<i>Nyctalus noctula</i>	1
22:01	<i>Pipistrellus pipistrellus</i>	3
22:01	<i>Pipistrellus pipistrellus</i>	4
22:02	<i>Nyctalus noctula</i>	7
22:02	<i>Nyctalus noctula</i>	5
22:03	<i>Pipistrellus pipistrellus</i>	12
22:04	<i>Pipistrellus pipistrellus</i>	8
22:07	<i>Pipistrellus pipistrellus</i>	4
22:07	<i>Pipistrellus pipistrellus</i>	12
22:08	<i>Pipistrellus pipistrellus</i>	7
22:11	<i>Pipistrellus pipistrellus</i>	6
22:13	<i>Pipistrellus pipistrellus</i>	7
22:14	<i>Pipistrellus pipistrellus</i>	12
22:15	<i>Pipistrellus pipistrellus</i>	9
22:15	<i>Pipistrellus pygmaeus</i>	6
22:15	<i>Pipistrellus pipistrellus</i>	6
22:15	<i>Pipistrellus pipistrellus</i>	4
22:16	<i>Pipistrellus pipistrellus</i>	6
22:16	<i>Pipistrellus pygmaeus</i>	14
22:17	<i>Pipistrellus pipistrellus</i>	14
22:17	<i>Pipistrellus pipistrellus</i>	3
22:17	<i>Pipistrellus pipistrellus</i>	9
22:17	<i>Pipistrellus pipistrellus</i>	1
22:17	<i>Pipistrellus pipistrellus</i>	15
22:18	<i>Pipistrellus pipistrellus</i>	6
22:18	<i>Pipistrellus pipistrellus</i>	17
22:18	<i>Pipistrellus pipistrellus</i>	8
22:18	<i>Pipistrellus pipistrellus</i>	22

22:18	<i>Pipistrellus pipistrellus</i>	22
22:19	<i>Pipistrellus pipistrellus</i>	11
22:19	<i>Pipistrellus pygmaeus</i>	15
22:19	<i>Pipistrellus pipistrellus</i>	14
22:20	<i>Pipistrellus pipistrellus</i>	6
22:20	<i>Pipistrellus pipistrellus</i>	13
22:21	<i>Pipistrellus pipistrellus</i>	11
22:22	<i>Pipistrellus pipistrellus</i>	6
22:24	<i>Pipistrellus pipistrellus</i>	22
22:25	<i>Pipistrellus pipistrellus</i>	6
22:25	<i>Pipistrellus pipistrellus</i>	14
22:26	<i>Pipistrellus pipistrellus</i>	11
22:26	<i>Pipistrellus pipistrellus</i>	5
22:26	<i>Pipistrellus pipistrellus</i>	23
22:27	<i>Pipistrellus pipistrellus</i>	20
22:28	<i>Pipistrellus pipistrellus</i>	27
22:28	<i>Pipistrellus pipistrellus</i>	10
22:28	<i>Pipistrellus pipistrellus</i>	3
22:28	<i>Pipistrellus pipistrellus</i>	4
22:28	<i>Pipistrellus pipistrellus</i>	14
22:28	<i>Pipistrellus pipistrellus</i>	3
22:29	<i>Pipistrellus pipistrellus</i>	20
22:29	<i>Pipistrellus pipistrellus</i>	26
22:29	<i>Pipistrellus pipistrellus</i>	19
22:30	<i>Pipistrellus pipistrellus</i>	24
22:30	<i>Pipistrellus pygmaeus</i>	17
22:31	<i>Eptesicus serotinus</i>	16
22:31	<i>Pipistrellus pipistrellus</i>	22
22:31	<i>Pipistrellus pipistrellus</i>	7
22:32	<i>Pipistrellus pipistrellus</i>	6
22:32	<i>Pipistrellus pipistrellus</i>	4
22:32	<i>Pipistrellus pygmaeus</i>	1
22:32	<i>Pipistrellus pipistrellus</i>	30
22:32	<i>Pipistrellus pipistrellus</i>	8
22:32	<i>Pipistrellus pipistrellus</i>	3
22:32	<i>Pipistrellus pipistrellus</i>	9
22:33	<i>Pipistrellus pipistrellus</i>	11
22:33	<i>Pipistrellus pipistrellus</i>	30
22:34	<i>Pipistrellus pipistrellus</i>	8
22:35	<i>Pipistrellus pipistrellus</i>	12
22:35	<i>Pipistrellus pipistrellus</i>	19
22:35	<i>Pipistrellus pipistrellus</i>	2
22:35	<i>Pipistrellus pipistrellus</i>	1
22:37	<i>Pipistrellus pipistrellus</i>	8
22:37	<i>Pipistrellus pipistrellus</i>	11
22:38	<i>Pipistrellus pipistrellus</i>	19
22:38	<i>Pipistrellus pipistrellus</i>	7

22:39	<i>Pipistrellus pipistrellus</i>	17
22:39	<i>Pipistrellus pipistrellus</i>	22
22:39	<i>Pipistrellus pipistrellus</i>	2
22:40	<i>Pipistrellus pipistrellus</i>	11
22:42	<i>Pipistrellus pipistrellus</i>	14
22:43	<i>Pipistrellus pipistrellus</i>	9
22:43	<i>Pipistrellus pipistrellus</i>	14
22:43	<i>Eptesicus serotinus</i>	1
22:43	<i>Eptesicus serotinus</i>	7
22:44	<i>Pipistrellus pipistrellus</i>	1
22:44	<i>Pipistrellus pipistrellus</i>	13
22:45	<i>Pipistrellus pipistrellus</i>	13
22:45	<i>Pipistrellus pipistrellus</i>	5
22:46	<i>Pipistrellus pipistrellus</i>	18
22:46	<i>Pipistrellus pipistrellus</i>	9
22:46	<i>Pipistrellus pipistrellus</i>	14
22:47	<i>Pipistrellus pipistrellus</i>	1
22:48	<i>Pipistrellus pipistrellus</i>	28
22:48	<i>Pipistrellus pipistrellus</i>	14
22:48	<i>Pipistrellus pipistrellus</i>	19
22:49	<i>Pipistrellus pipistrellus</i>	31
22:52	<i>Pipistrellus pygmaeus</i>	12

31st July 2025

Surveyor Location 1 – M2 Echo Meter Touch 2

Time	Species
20:51	<i>Nyctalus noctula</i>
21:02	<i>Pipistrellus pipistrellus</i>
21:08	<i>Nyctalus noctula</i>
21:09	<i>Pipistrellus pipistrellus</i>
21:09	<i>Pipistrellus pipistrellus</i>
21:11	<i>Nyctalus noctula</i>
21:12	<i>Nyctalus noctula</i>
21:12	<i>Pipistrellus pipistrellus</i>
21:13	<i>Pipistrellus pipistrellus</i>
21:14	<i>Pipistrellus pipistrellus</i>
21:15	<i>Pipistrellus pipistrellus</i>
21:15	<i>Pipistrellus pipistrellus</i>
21:18	<i>Pipistrellus pipistrellus</i>
21:21	<i>Pipistrellus pipistrellus</i>
21:23	<i>Nyctalus noctula</i>
21:23	<i>Nyctalus noctula</i>
21:24	<i>Pipistrellus pipistrellus</i>
21:26	<i>Pipistrellus pipistrellus</i>
21:26	<i>Pipistrellus pipistrellus</i>
21:35	<i>Pipistrellus pipistrellus</i>

21:47	<i>Pipistrellus pipistrellus</i>
21:50	<i>Pipistrellus pipistrellus</i>
21:51	<i>Pipistrellus pipistrellus</i>
21:55	<i>Pipistrellus pipistrellus</i>
21:57	<i>Plecotus auritus</i>
21:58	<i>Pipistrellus pipistrellus</i>
21:58	<i>Nyctalus noctula</i>
21:59	<i>Plecotus auritus</i>
22:00	<i>Pipistrellus pipistrellus</i>
22:00	<i>Pipistrellus pipistrellus</i>
22:02	<i>Plecotus auritus</i>
22:03	<i>Pipistrellus pipistrellus</i>
22:03	<i>Pipistrellus pipistrellus</i>
22:04	<i>Pipistrellus pipistrellus</i>
22:05	<i>Pipistrellus pipistrellus</i>
22:06	<i>Pipistrellus pipistrellus</i>
22:06	<i>Pipistrellus pipistrellus</i>
22:08	<i>Pipistrellus pipistrellus</i>
22:08	<i>Pipistrellus pipistrellus</i>
22:16	<i>Pipistrellus pipistrellus</i>
22:19	<i>Pipistrellus pipistrellus</i>
22:20	<i>Plecotus auritus</i>
22:20	<i>Nyctalus noctula</i>
22:20	<i>Pipistrellus pipistrellus</i>
22:20	<i>Pipistrellus pipistrellus</i>
22:20	<i>Nyctalus noctula</i>
22:21	<i>Nyctalus noctula</i>

Surveyor Location 2 – Batlogger M1

Time	Species	Number of calls [#]
21:01	<i>Pipistrellus pipistrellus</i>	3
21:02	<i>Pipistrellus pipistrellus</i>	5
21:02	<i>Pipistrellus pipistrellus</i>	19
21:12	<i>Pipistrellus pipistrellus</i>	2
21:12	<i>Pipistrellus pipistrellus</i>	1
21:13	<i>Pipistrellus pipistrellus</i>	11
21:18	<i>Pipistrellus pipistrellus</i>	1
21:26	<i>Pipistrellus pipistrellus</i>	18
21:52	<i>Pipistrellus pipistrellus</i>	12
21:52	<i>Pipistrellus pipistrellus</i>	9
21:52	<i>Pipistrellus pipistrellus</i>	8
21:53	<i>Pipistrellus pipistrellus</i>	1
21:53	<i>Pipistrellus pipistrellus</i>	7
21:53	<i>Pipistrellus pipistrellus</i>	0
21:53	<i>Pipistrellus pipistrellus</i>	5
21:54	<i>Pipistrellus pipistrellus</i>	12

21:54	<i>Pipistrellus pipistrellus</i>	3
21:54	<i>Pipistrellus pipistrellus</i>	6
21:54	<i>Pipistrellus pipistrellus</i>	1
21:55	<i>Pipistrellus pipistrellus</i>	5
21:55	<i>Pipistrellus pipistrellus</i>	17
21:55	<i>Pipistrellus pipistrellus</i>	1
21:55	<i>Pipistrellus pipistrellus</i>	12
21:55	<i>Pipistrellus pipistrellus</i>	11
21:58	<i>Pipistrellus pipistrellus</i>	6
21:58	<i>Pipistrellus pipistrellus</i>	16
21:58	<i>Pipistrellus pipistrellus</i>	1
21:58	<i>Pipistrellus pipistrellus</i>	1
21:58	<i>Pipistrellus pipistrellus</i>	17
21:58	<i>Pipistrellus pipistrellus</i>	2
21:58	<i>Pipistrellus pipistrellus</i>	2
21:59	<i>Pipistrellus pipistrellus</i>	2
21:59	<i>Pipistrellus pipistrellus</i>	5
21:59	<i>Pipistrellus pipistrellus</i>	4
21:59	<i>Pipistrellus pipistrellus</i>	5
21:59	<i>Pipistrellus pipistrellus</i>	1
21:59	<i>Pipistrellus pipistrellus</i>	1
21:59	<i>Pipistrellus pipistrellus</i>	10
22:00	<i>Pipistrellus pipistrellus</i>	2
22:00	<i>Pipistrellus pipistrellus</i>	6
22:00	<i>Pipistrellus pipistrellus</i>	5
22:00	<i>Pipistrellus pipistrellus</i>	6
22:00	<i>Pipistrellus pipistrellus</i>	4
22:00	<i>Pipistrellus pipistrellus</i>	4
22:00	<i>Pipistrellus pipistrellus</i>	1
22:00	<i>Pipistrellus pipistrellus</i>	7
22:00	<i>Pipistrellus pipistrellus</i>	5
22:01	<i>Pipistrellus pipistrellus</i>	0
22:01	<i>Pipistrellus pipistrellus</i>	12
22:01	<i>Pipistrellus pipistrellus</i>	9
22:01	<i>Pipistrellus pipistrellus</i>	4
22:01	<i>Pipistrellus pipistrellus</i>	9
22:01	<i>Pipistrellus pipistrellus</i>	5
22:01	<i>Pipistrellus pipistrellus</i>	11
22:02	<i>Pipistrellus pipistrellus</i>	0
22:02	<i>Pipistrellus pipistrellus</i>	1
22:02	<i>Pipistrellus pipistrellus</i>	10
22:02	<i>Pipistrellus pipistrellus</i>	7
22:02	<i>Pipistrellus pipistrellus</i>	6
22:02	<i>Pipistrellus pipistrellus</i>	8
22:02	<i>Pipistrellus pipistrellus</i>	9
22:02	<i>Plecotus auritus</i>	2
22:02	<i>Pipistrellus pipistrellus</i>	8

22:02	<i>Pipistrellus pipistrellus</i>	7
22:02	<i>Pipistrellus pipistrellus</i>	0
22:03	<i>Pipistrellus pipistrellus</i>	9
22:03	<i>Pipistrellus pipistrellus</i>	7
22:03	<i>Pipistrellus pipistrellus</i>	8
22:03	<i>Pipistrellus pipistrellus</i>	9
22:03	<i>Pipistrellus pipistrellus</i>	8
22:04	<i>Pipistrellus pipistrellus</i>	14
22:04	<i>Pipistrellus pipistrellus</i>	5
22:04	<i>Pipistrellus pipistrellus</i>	5
22:04	<i>Pipistrellus pipistrellus</i>	5
22:04	<i>Pipistrellus pipistrellus</i>	7
22:05	<i>Pipistrellus pipistrellus</i>	3
22:05	<i>Pipistrellus pipistrellus</i>	8
22:05	<i>Pipistrellus pipistrellus</i>	3
22:05	<i>Pipistrellus pipistrellus</i>	9
22:05	<i>Pipistrellus pipistrellus</i>	3
22:05	<i>Pipistrellus pipistrellus</i>	11
22:06	<i>Pipistrellus pipistrellus</i>	13
22:06	<i>Pipistrellus pipistrellus</i>	13
22:06	<i>Pipistrellus pipistrellus</i>	2
22:07	<i>Pipistrellus pipistrellus</i>	4
22:07	<i>Pipistrellus pipistrellus</i>	6
22:07	<i>Pipistrellus pipistrellus</i>	2
22:07	<i>Pipistrellus pipistrellus</i>	6
22:07	<i>Pipistrellus pipistrellus</i>	1
22:07	<i>Pipistrellus pipistrellus</i>	9
22:07	<i>Pipistrellus pipistrellus</i>	4
22:07	<i>Pipistrellus pipistrellus</i>	7
22:07	<i>Pipistrellus pipistrellus</i>	10
22:08	<i>Pipistrellus pipistrellus</i>	0
22:08	<i>Pipistrellus pipistrellus</i>	10
22:08	<i>Pipistrellus pipistrellus</i>	4
22:08	<i>Pipistrellus pipistrellus</i>	33
22:08	<i>Pipistrellus pipistrellus</i>	17
22:08	<i>Pipistrellus pipistrellus</i>	7
22:09	<i>Pipistrellus pipistrellus</i>	11
22:09	<i>Pipistrellus pipistrellus</i>	16
22:09	<i>Pipistrellus pipistrellus</i>	9
22:09	<i>Pipistrellus pipistrellus</i>	8
22:09	<i>Pipistrellus pipistrellus</i>	2
22:09	<i>Pipistrellus pipistrellus</i>	15
22:09	<i>Pipistrellus pipistrellus</i>	1
22:09	<i>Pipistrellus pipistrellus</i>	2
22:10	<i>Pipistrellus pipistrellus</i>	10
22:10	<i>Pipistrellus pipistrellus</i>	9
22:10	<i>Pipistrellus pipistrellus</i>	9

22:10	<i>Pipistrellus pipistrellus</i>	7
22:10	<i>Pipistrellus pipistrellus</i>	6
22:10	<i>Pipistrellus pipistrellus</i>	8
22:10	<i>Pipistrellus pipistrellus</i>	5
22:11	<i>Pipistrellus pipistrellus</i>	0
22:11	<i>Pipistrellus pipistrellus</i>	14
22:11	<i>Pipistrellus pipistrellus</i>	4
22:11	<i>Pipistrellus pipistrellus</i>	11
22:11	<i>Pipistrellus pipistrellus</i>	13
22:11	<i>Pipistrellus pipistrellus</i>	14
22:11	<i>Pipistrellus pipistrellus</i>	10
22:11	<i>Pipistrellus pipistrellus</i>	8
22:12	<i>Pipistrellus pipistrellus</i>	6
22:12	<i>Pipistrellus pipistrellus</i>	14
22:12	<i>Pipistrellus pipistrellus</i>	10
22:12	<i>Pipistrellus pipistrellus</i>	8
22:12	<i>Pipistrellus pipistrellus</i>	8
22:12	<i>Pipistrellus pipistrellus</i>	10
22:12	<i>Pipistrellus pipistrellus</i>	4
22:12	<i>Pipistrellus pipistrellus</i>	13
22:13	<i>Pipistrellus pipistrellus</i>	15
22:13	<i>Pipistrellus pipistrellus</i>	17
22:13	<i>Pipistrellus pipistrellus</i>	6
22:13	<i>Pipistrellus pipistrellus</i>	13
22:13	<i>Pipistrellus pipistrellus</i>	6
22:13	<i>Pipistrellus pipistrellus</i>	12
22:13	<i>Pipistrellus pipistrellus</i>	13
22:14	<i>Pipistrellus pipistrellus</i>	8
22:14	<i>Pipistrellus pipistrellus</i>	0
22:14	<i>Pipistrellus pipistrellus</i>	11
22:14	<i>Pipistrellus pipistrellus</i>	7
22:14	<i>Pipistrellus pipistrellus</i>	11
22:14	<i>Pipistrellus pipistrellus</i>	8
22:14	<i>Pipistrellus pipistrellus</i>	17
22:14	<i>Pipistrellus pipistrellus</i>	15
22:14	<i>Pipistrellus pipistrellus</i>	11
22:15	<i>Pipistrellus pipistrellus</i>	7
22:15	<i>Pipistrellus pipistrellus</i>	3
22:15	<i>Pipistrellus pipistrellus</i>	15
22:15	<i>Pipistrellus pipistrellus</i>	8
22:15	<i>Pipistrellus pipistrellus</i>	5
22:15	<i>Pipistrellus pipistrellus</i>	20
22:15	<i>Pipistrellus pipistrellus</i>	21
22:16	<i>Pipistrellus pipistrellus</i>	11
22:16	<i>Pipistrellus pipistrellus</i>	17
22:16	<i>Pipistrellus pipistrellus</i>	12
22:16	<i>Pipistrellus pipistrellus</i>	5

22:16	<i>Pipistrellus pipistrellus</i>	7
22:16	<i>Pipistrellus pipistrellus</i>	5
22:16	<i>Pipistrellus pipistrellus</i>	1
22:16	<i>Pipistrellus pipistrellus</i>	12
22:17	<i>Pipistrellus pipistrellus</i>	1
22:17	<i>Pipistrellus pipistrellus</i>	7
22:17	<i>Pipistrellus pipistrellus</i>	6
22:17	<i>Pipistrellus pipistrellus</i>	6
22:17	<i>Pipistrellus pipistrellus</i>	5
22:17	<i>Pipistrellus pipistrellus</i>	1
22:17	<i>Pipistrellus pipistrellus</i>	24
22:17	<i>Pipistrellus pipistrellus</i>	4
22:17	<i>Pipistrellus pipistrellus</i>	16
22:18	<i>Pipistrellus pipistrellus</i>	9
22:18	<i>Pipistrellus pipistrellus</i>	6
22:18	<i>Pipistrellus pipistrellus</i>	5
22:18	<i>Pipistrellus pipistrellus</i>	6
22:18	<i>Pipistrellus pipistrellus</i>	9
22:18	<i>Pipistrellus pipistrellus</i>	7
22:18	<i>Pipistrellus pipistrellus</i>	4
22:18	<i>Pipistrellus pipistrellus</i>	1
22:18	<i>Pipistrellus pipistrellus</i>	9
22:19	<i>Pipistrellus pipistrellus</i>	8
22:19	<i>Pipistrellus pipistrellus</i>	8
22:19	<i>Pipistrellus pipistrellus</i>	10
22:19	<i>Pipistrellus pipistrellus</i>	7
22:19	<i>Pipistrellus pipistrellus</i>	9
22:19	<i>Pipistrellus pipistrellus</i>	4
22:19	<i>Pipistrellus pipistrellus</i>	14
22:20	<i>Pipistrellus pipistrellus</i>	15
22:20	<i>Pipistrellus pipistrellus</i>	4
22:20	<i>Pipistrellus pipistrellus</i>	22
22:21	<i>Pipistrellus pipistrellus</i>	19
22:21	<i>Pipistrellus pipistrellus</i>	2
22:21	<i>Pipistrellus pipistrellus</i>	2
22:21	<i>Pipistrellus pipistrellus</i>	1
22:21	<i>Pipistrellus pipistrellus</i>	3
22:21	<i>Pipistrellus pipistrellus</i>	20
22:21	<i>Pipistrellus pipistrellus</i>	9
22:22	<i>Pipistrellus pipistrellus</i>	0

Surveyor Location 3 – Batlogger M2

Time	Species	Number of
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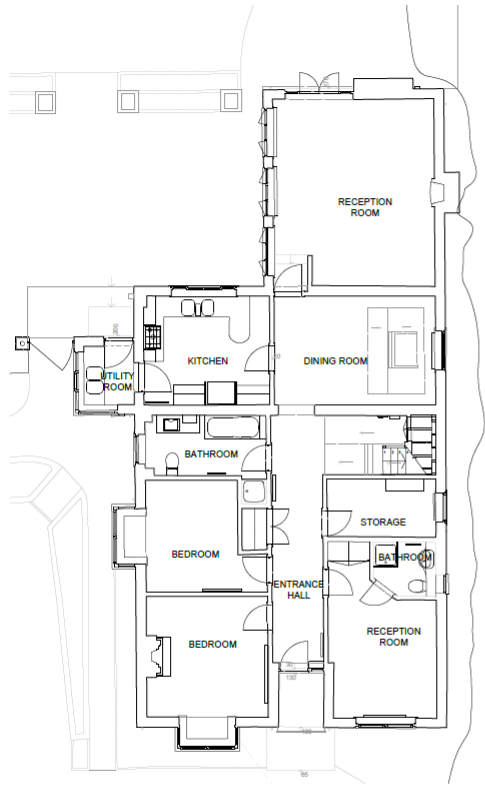
Suncot, School Road - Bat Emergence Survey (R2926_BES_a)

		calls [#]
21:12	<i>Pipistrellus pipistrellus</i>	6
21:13	<i>Pipistrellus pipistrellus</i>	9
21:13	<i>Pipistrellus pipistrellus</i>	10
21:15	<i>Pipistrellus pipistrellus</i>	7
21:22	<i>Pipistrellus pipistrellus</i>	14
21:23	<i>Pipistrellus pipistrellus</i>	15
21:24	<i>Pipistrellus pipistrellus</i>	10
21:24	<i>Pipistrellus pipistrellus</i>	6
21:24	<i>Pipistrellus pipistrellus</i>	4
21:25	<i>Pipistrellus pipistrellus</i>	7
21:26	<i>Pipistrellus pipistrellus</i>	12
21:28	<i>Pipistrellus pipistrellus</i>	6
21:29	<i>Pipistrellus pipistrellus</i>	13
21:29	<i>Pipistrellus pipistrellus</i>	5
21:30	<i>Pipistrellus pipistrellus</i>	1
21:30	<i>Pipistrellus pipistrellus</i>	3
21:31	<i>Pipistrellus pipistrellus</i>	6
21:31	<i>Pipistrellus pipistrellus</i>	5
21:32	<i>Pipistrellus pipistrellus</i>	8
21:32	<i>Pipistrellus pipistrellus</i>	11
21:33	<i>Pipistrellus pipistrellus</i>	15
21:33	<i>Pipistrellus pipistrellus</i>	16
21:33	<i>Pipistrellus pipistrellus</i>	4
21:34	<i>Pipistrellus pipistrellus</i>	3
21:34	<i>Pipistrellus pipistrellus</i>	18
21:34	<i>Pipistrellus pipistrellus</i>	1
21:34	<i>Pipistrellus pipistrellus</i>	11
21:35	<i>Pipistrellus pipistrellus</i>	3
21:36	<i>Pipistrellus pipistrellus</i>	6
21:37	<i>Pipistrellus pipistrellus</i>	3
21:37	<i>Pipistrellus pipistrellus</i>	16
21:40	<i>Pipistrellus pipistrellus</i>	19
21:46	<i>Pipistrellus pipistrellus</i>	7
21:47	<i>Pipistrellus pipistrellus</i>	6
21:47	<i>Pipistrellus pipistrellus</i>	13
21:47	<i>Pipistrellus pipistrellus</i>	8
21:48	<i>Pipistrellus pipistrellus</i>	10
21:48	<i>Pipistrellus pipistrellus</i>	11
21:48	<i>Pipistrellus pipistrellus</i>	6
21:48	<i>Pipistrellus pipistrellus</i>	6
21:49	<i>Pipistrellus pipistrellus</i>	10
21:49	<i>Pipistrellus pipistrellus</i>	6
21:50	<i>Pipistrellus pipistrellus</i>	4
21:51	<i>Pipistrellus pipistrellus</i>	8
21:51	<i>Pipistrellus pipistrellus</i>	13
21:51	<i>Pipistrellus pipistrellus</i>	4

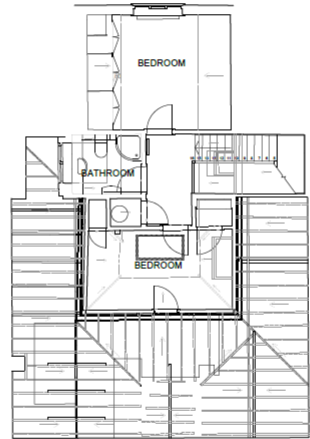
21:52	<i>Pipistrellus pipistrellus</i>	13
21:52	<i>Pipistrellus pipistrellus</i>	3
21:53	<i>Pipistrellus pipistrellus</i>	6
21:53	<i>Pipistrellus pipistrellus</i>	7
21:53	<i>Pipistrellus pipistrellus</i>	14
21:53	<i>Pipistrellus pipistrellus</i>	10
21:54	<i>Pipistrellus pipistrellus</i>	9
21:54	<i>Pipistrellus pipistrellus</i>	6
21:54	<i>Pipistrellus pipistrellus</i>	3
21:55	<i>Pipistrellus pipistrellus</i>	11
21:55	<i>Pipistrellus pipistrellus</i>	9
21:55	<i>Pipistrellus pipistrellus</i>	10
21:55	<i>Pipistrellus pipistrellus</i>	7
21:56	<i>Pipistrellus pipistrellus</i>	1
21:57	<i>Pipistrellus pipistrellus</i>	14
21:58	<i>Pipistrellus pipistrellus</i>	8
21:58	<i>Pipistrellus pipistrellus</i>	8
22:00	<i>Pipistrellus pipistrellus</i>	6
22:00	<i>Pipistrellus pipistrellus</i>	2
22:01	<i>Pipistrellus pipistrellus</i>	3
22:04	<i>Pipistrellus pipistrellus</i>	1
22:10	<i>Pipistrellus pipistrellus</i>	9
22:21	<i>Pipistrellus pipistrellus</i>	4

*NB. The number of calls per recording that are calculated by the BatExplorer Software during analysis of the data.

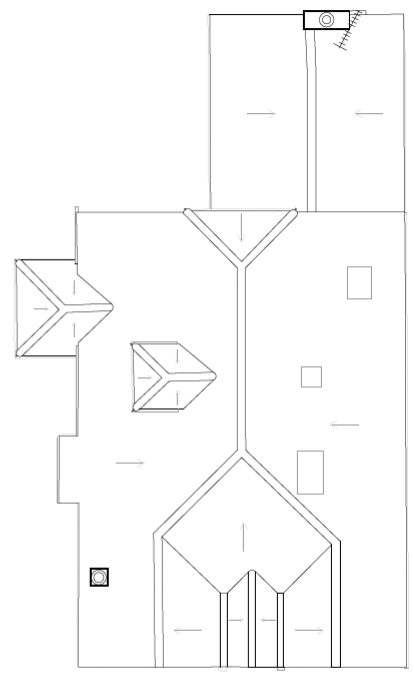
APPENDIX 3 – EXISTING & PROPOSED ELEVATIONS



EXISTING GROUND FLOOR PLAN
Scale 1:100 @ A3

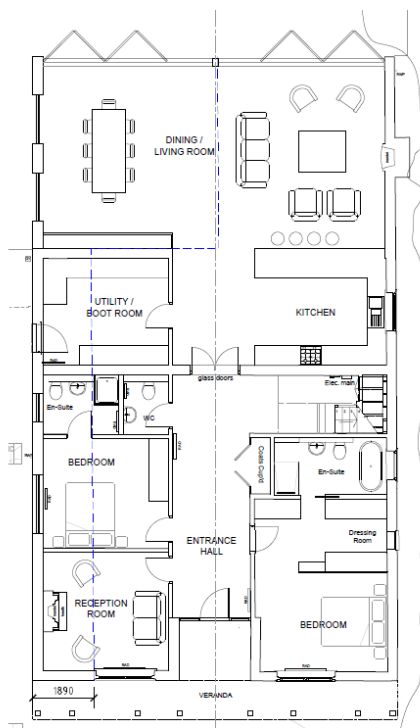


EXISTING FIRST FLOOR PLAN
Scale 1:100 @ A3

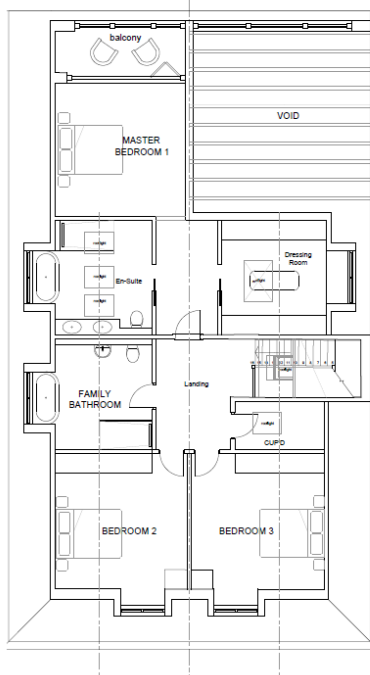


EXISTING ROOF PLAN
Scale 1:100 @ A3

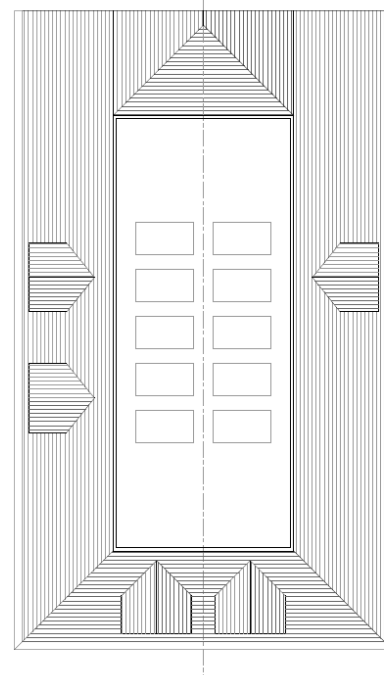
SILVA ARCHITECTURE	REVISION NOTES:			CLIENT		DRAWING NUMBER:		
	Rev:	Date:	Notes:	J & K Chappell		25 / 001 - A003		
	-	-	-	PROJECT TITLE:		SCALE:		
				Suncot, School Road, Batham		1:100 @A3		
				DRAWING TITLE:		DRAWN BY:		
			Existing Plans		DATE:		April 25	REVISION



PROPOSED GROUND FLOOR PLAN
Scale 1:100 @ A3
AREA (GIA) 2131 sqft



PROPOSED FIRST FLOOR PLAN
Scale 1:100 @ A3
AREA (GIA) 1334 sqft



PROPOSED ROOF PLAN
Scale 1:100 @ A3

SILVA|ARCHITECTURE

REVISION NOTES:

Rev:	Date:	Notes:

CLIENT: J & H Chappell	DRAWING NUMBER: 25 / 001 - A307
PROJECT TITLE: Suncot, School Road, Barking	SCALE: 1:100 @A3
DRAWING TITLE: Proposed Plans	DRAWN BY: AS
	DATE: April 25
	REVISION