WHARTON

Natural
Infrastructure
Consultants

FAO
Mr. Graeme Laughlan
Raw Architecture Workshop
2-5 St John's Square
Clerkenwell
London
EC1M 4DE

ISSUE DATE
18th March 2019

OUR REFERENCE
190318 0880 EEP V2

SITE NAME
264 Sheen Lane, Sheen

Dear Mr. Laughlan,

This letter report details specific ecological enhancements required in support of the planning application for 264 Sheen Lane, Sheen (OS NGR TQ 20417 74573) . This letter should be read in conjunction with the previous ecology reports (FOA Ecology , 2018) (FOA Ecology , 2018) prepared by FOA Ecology in 2018.

The Proposed Works

The current development proposals at the Site include;

- erecting a single-story extension to the west/northwest of the existing house and two out buildings,
- minor internal and external alterations to the existing Grade II listed building, including partial demolition of existing elements,
- replacing the boundary walls, fences and entrance gates, and;
- associated landscaping

The Site is defined by the red line boundary at appendix 1.

Ecological Enhancement Detail

Bats

An outline low level external lighting strategy was requested; however, this will be provided by a lighting professional and should be in accordance with ILP and BCT guidance (ILP & BCT, 2018). All lighting should be from warm white LED lighting, which is directionally downlit.

In addition to this, a 10m dark corridor buffer must be enforced from the boundary of the Site, in order to preclude any adverse effects to foraging or commuting bats, which may be utilizing these linear features. In areas where security lighting is required within the 10m dark corridor, such as on the building along the western boundary, all lighting should be positioned facing away from the dark corridor and in a downward facing direction, to avoid light spilling upwards and reducing the suitability of the corridor for bats.

The provision of two 1FF Schwegler tree-mounted bat boxes (or similar models) are to be positioned on mature retained trees, on the south-west, south and / or south-east aspects of the stems at a height of c.4-5m, in the southern section of the Site. The proposed positioning

of the bat boxes is shown indicatively at Appendix 1, however these locations may be adapted depending on Site conditions (i.e. shading by branches etc.) to ensure optimal placement by an ecologist.

The provision of night-scented plants will aim to attract flying invertebrates to enhance the Site for foraging bats. Details of indicative planting locations can be seen in Appendix 1 and a list of appropriate floral species can be found in the appendix of the Bat Conservation Trust document on Landscape and Urban Design for Bats and Biodiversity (BCT , 2012).

Reinstating the pond along the southern boundary of the Site will also attract invertebrate species, to enhance the Site for foraging bats.

Any bat mitigation measures will be detailed separately, this report solely addresses locations of indicative enhancement measures that can be implemented to deliver a net gain in biodiversity at the Site.

Birds

Two tree mounted bird boxes, to include one box with a 32mm entrance hole and one with a 28mm entrance hole are to be positioned at the southern extent of the Site, in order to enhance the availability of nesting habitat at the Site following completion of the Proposed Development.

One sparrow terrace should be provisioned on the northern aspect of the Proposed Development building, attached to the side of the building at a height of two meters or above, the to enhance the nesting habitat for house sparrows (*Passer domesticus*).

The proposed positioning of bird boxes can see seen at Appendix 1. All bird boxes should be positioned on north-facing aspects, out of direct sunlight (to avoid overheating eggs and chicks) and at a height of c.3-4m.

A bird bath and bird feeders should also be provisioned at a location deemed suitable by the Client.

Supplementary shrub planting around the southern boundaries of the Site, with a wide range of native fruit and/or seed-bearing plants, will enhance foraging interest for birds at the Site.

Hedgehog

Two hedgehog houses are to be located within the shrub along the western boundary of the Site (see appendix 1). This will encourage use of the Site by hedgehog in the long-term.

Three holes are to be included in the walls/fencing surrounding the Site at ground-level (13cm x 13cm) to allow hedgehog to move freely from the Site to the gardens beyond. All holes are positioned to maintain migration routes through the Site to neighboring gardens and avoid directly linking the Site to the main roads along the eastern and southern boundaries. The locations of these holes are shown at Appendix 1. This will preclude any adverse effects to hedgehog currently utilising the Site.

Invertebrates

A loggery is to be located in the southwest corner of the Site in a shaded location, to enhance the Site for stag beetles. Details of which can be found within the appendix of FOA Ecology Update Biodiversity Survey Report (FOA Ecology , 2018).

Three insect houses, to include a ladybird house, a solitary bee shelter and an insect block will also be provided along the northern, southern and eastern boundaries of the Site, in sheltered, sunny, south-facing locations. Proposed locations can be seen in appendix 1.

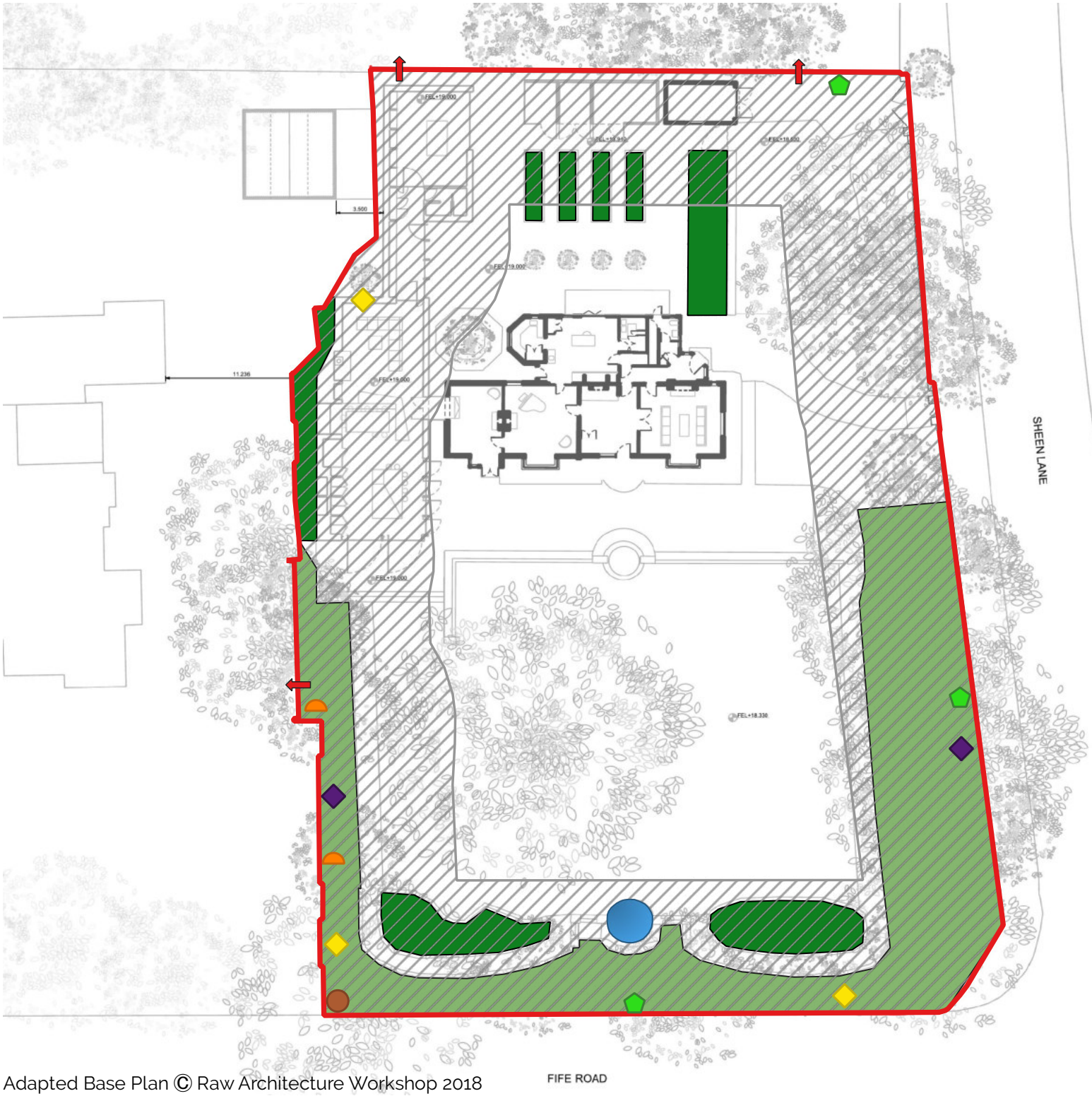
I trust this information is sufficient for your purpose. Please do not hesitate to contact me if you have any further questions. Should protected species be unexpectedly found during construction, works should cease immediately, and an ecologist/Natural England should be contacted for advice on how to proceed.

Yours sincerely,

Eleanor Delaney BSc (Hons), MSc
Ecologist
Wharton Natural Infrastructure Consultants Ltd

Reviewed by Matthew Wall BSc (Hons), MSc
Senior Ecologist
Wharton Natural Infrastructure Consultants Ltd

Appendix 1 – Ecological Enhancement Plan



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- Site Boundary
- 10m Dark Corridor
- Night Scented Plants
- Supplimentary Shrub Planting
- Reinstated Pond
- Bat Box
- Bird Box
- Hedgehog Access Location
- Hedgehog Shelter
- Insect House
- Loggery

Date: 18/03/2019

Client: Raw Architecture Workshop

Project: 264 Sheen Lane, Sheen

Title: Extended Phase 1 Habitat Plan

Map file reference	DWG No
190318 0880 EEP V2	Fig 1

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