Green Infrastructure Statement And Net Biodiversity Benefit (NBB)

Blackwood Road, Garth, Trevor, Llangollen

Introduction

This document supports the planning application for the development of new replacement dwelling. The development has been designed with a commitment to enhancing the local environment, promoting biodiversity, and managing water sustainably.

Context

The proposed site lies within Wrexham County Borough, Blackwood Road, Garth, Trevor, Llangollen, an area known for its natural beauty, ecological sensitivity, and cultural heritage. The project aligns with the principles set out in **Planning Policy Wales (Edition 12),** Planning Policy Wales **(Chapter 6), all applications are now required to provide a statement in relation to Green Infrastructure (paragraph 6.2.12)** , **paragraph 6.4.5 of Planning Policy Wales 12, all developments are required to demonstrate that provision has been made for net biodiversity benefit (NBB)**, which supports sustainable development and the protection and enhancement of the green infrastructure network.

1. Biodiversity Enhancement

- Native planting will be used extensively in the garden design, with a focus on pollinator-friendly species and native hedgerows to support local birds and insects.
- A mix of trees, shrubs, and ground cover will be selected to provide year-round habitat and food sources.
- Bird boxes will be integrated into the design.
- External lighting will be installed to ensure downward lighting and of a low luminance.

(Refer to proposed landscape plan, bat survey recommendations) - Extracts below:



To this end, it is recommended that 5 x Harlech Woodstone Bat boxes are installed in suitably mature trees within the wider site boundary as pat of the development proposals.



- DIMENSIONS: 150 x 275 x 160; 110 x 190 x 110 (INNER)
- ENTRANCE: 20 x 80
- WEIGHT (KG): 4
- SITING:

Harlech Woodstone Bat box. The bat box can be placed on both a tree or a façade. Preferably choose a sunny spot but do not place the cabinet under or in artificial light and avoid placing where the rain can directly access the box. Ideally, two to three boxes should be erected facing in different directions to account for temperature changes from day to day. Hang the bat box with the supplied screws. In the back of the box, there is a "keyhole" where the mounted screw can be hooked. The pre-drilled hole in the landing board allows you to secure the bat box. Preferably hang several boxes together. When placing in bunkers, cellars, attics, and stables, place the boxes as high as possible against the façade or posts, they should be hung at a minimum height of 3 meters (approx 10ft).

Suitable for mounting on a tree or wall.

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2. Sustainable Water Management

- The development already incorporates many natural solutions such as maintained dykes, and permeable pathways to manage surface water runoff naturally.
- A Rainwater water butt systems will be adopted to supply irrigation for the garden.

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3. Climate Resilience and Carbon Reduction

- The new dwelling will be built to exceed the latest building regulations using modern tech systems.
- The planting scheme will contribute to carbon capture and help reduce urban temperatures.

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4. Wellbeing

- The garden will be designed to provide accessible, inclusive green space for all users, promoting physical and mental wellbeing.
- Pathways, seating areas, and sensory planting zones will encourage relaxation.

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5. Connectivity and Integration

- The hedges and new planting will be used to enhance ecological connectivity with the existing planting within the whole property and nearby woodland.

Conclusion

This development reflects a strong commitment to Wrexhams and the wider green infrastructure goals by embedding ecological and sustainable principles into the design. The high efficient home and garden will enhance the natural environment, contribute to local biodiversity, support climate resilience, and provide a high-quality green space for the benefit of the community and future generations.