

Biodiversity Report

August 2020

Lidlington Place NW1

Planning Application Proposal

First Storey addition to grant application (2020/0571/P) Erection of two storey dwelling house with ground and basement levels

This report has taken into the accounts the literature of Camden Planning Guidance, Biodiversity March 2018



Opportunities to improve biodiversity

The current site, is a bare concrete parking lot with no trees, greenery, habitat or any form of biodiversity

The challenge of the scheme is introduce biodiversity to a site, where biodiversity doesn't currently exist. The scheme will undertake the following endeavours to promote greenery and biodiversity to the site, made possible with a first storey addition.

1. Greening the Street
2. Install an Evergreen Green Roof
3. Miniature Outdoor Living Green Wall
4. Facade Greening with climbers
5. Installing Bird Boxes

1. Greening the Street

Street Tree planting

TfL being the highway management agency of Lidlington Place, has agreed to plant four tall trees of the existing type along the pavement of the site. Lidlington Place is an ugly busy short road with no street appeal. The new street trees will help soften the harsh aesthetics and sharp lines of concrete and asphalt. Street trees provides much needed direct connection to nature. They also provide canopy, root structure and habitat for important insects, birds. Street trees provide protection from the elements; rain, sun and heat making tree lined streets more desirable to be on. Trees help clean the air, especially on roadways, where they filter automobile exhaust and emissions. Street trees create more pleasant walking environments, which, in turn help build pride and care of place for environments. Pride, sense of place and ownership of public areas.

Build a Living Green Fence

After the building works has completed there is a need to rebuild the existing front brick fence or better to integrate it with a new living green fence. Benefits of Living Fences is that it provides "edge habitat" that supports ecological diversity. Insects, bugs and birds find food and refuge in this habitat. Living fences can provide food and medicine for certain wildlife. They can also create an effective wind barrier, increase a home's security and be aesthetically beautiful.



Image of the green streetscape, with the TfL trees and an integrated living green fence and London stock bricks

Living Green Fence Spec

Installing a green fence would be a cost effective means to enhance the dull street. Consultation with the Council is needed to achieve the right balance of greenery for the street. The applicant is happy to install a living green fence covering 80% of the boundary street fence if it's beneficial to the planning application and street.

1. The firm = <https://mobilane.com/en/>
2. Product selection = Mobilane Green Screen
3. Plant selection = Euonymus Dart's Blanket

Please refer to various tech spec;

1. Screen-Consumerbrochure- Ready-Made-Green-SystemsENG
2. Screen-ArchitectmapMobilane- Green-ScreenENGUK
3. Screen-A4-Factsheet-Euonymus-UK-LR- web
4. Screen-A4-Factsheet-KKH-UKweb

Mobilane®
Green Screen

Instant green screen

The Mobilane green screen consists of a steel grid, densely intertwined with climbing plants. The plants are supplied in a coconut fibre root container filled with potting soil, with a strong metal frame. The coconut planter is a mixture of coconut fibres (coir), held together by natural latex. Once the Mobilane green screen is installed, the biodegradable coconut planter completely degrades within one to two years. This system allows the full, healthy development of the hedge and its root system. The Mobilane ready-made living Green Screens can be installed all year round, however avoid planting during a prolonged frost.



Euonymus Dart's Blanket living green fence

2. Install an Evergreen Green Roof

The benefits of a green roof are immense.

Increasing biodiversity and wildlife

As urbanisation increases, ensuring that biodiversity is retained is a key requirement for Camden council. Whilst green roofs can't be a direct substitute for natural habitat, it can act as green 'stepping stones' for wildlife, can cater for a variety of flora and fauna unattainable on traditional roofs.

Reducing energy use

Green roofs have been shown to impact positively on a building's energy consumption by improving the roofs thermal performance. By retrofitting green roofs, both air conditioning and heating usage is decreased. Flat un-vegetated gravel roofs may be up to 21°C hotter than vegetated roofs (Kaiser 1981). Planted roofs can have markedly lower temperatures throughout the roof layers compared to the unplanted roof.

Reduced sound transfer

Rain hammer on some deck roofed buildings, the combination of growing medium, plants and trapped layers of air within green roof systems can act as a sound insulation barrier. A green roof can reduce sound within a building by 8dB or more when compared with a conventional roof.

Amenity space for the senses

Greened roof areas can add a great deal of value to the local area with improved visual aspect for neighbouring residents. Green vistas for nearby flat residents are very welcome.

Improving air and water quality

Green roofs can improve local air quality through mitigating the urban heat island effect. Having a living roof can also help to remove airborne particles, heavy metals and volatile organic compounds from the local atmosphere. These contaminants are retained by the green roof itself and so their infiltration into the water system through surface runoff is reduced, improving local water quality.

Roof Spec - Sedum Album Coral Carpet

The green roof proposal is to use an off the shelf product called EverMat, consisting of: Protective Fleece, Drainage Layer, Growing Medium and Pre Grown Sedum Blanket. Buying an off the shelf product from a proven supplier <https://www.greenroofsdirect.com> Please refer to various documents;

Core System Spec - Green Roof Directs

EverMat - GRD Metal Edge Trim detail

EverMat - GRD Parapet Detail

EverMat - Lightweight System Spec

EverMat - Maintenance Schedule

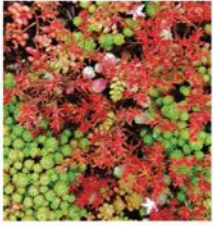
EverMat - Sedum Blanket Spec

Lidlington Place - Green Roof (Addendum)

Product - Evermat Core Specification

Sedum Variety List

Selected Sedum images year round



Sedum Album Coral Carpet

Coral Carpet is a mat-forming, evergreen Sedum with small, fleshy, red-flushed leaves. They come alive in late spring to early summer with pink tinted, white star-shaped flowers. Coral Carpet foliage is green, flushed red in all seasons. The use of this in our sedum blanket means vibrant and full colour all year round.

Height: 5cm

Spread: 25cm

Hardiness: Fully hardy

Conditions: Rain / Sun



3. Miniature Outdoor Living Green Wall

Integrated Benefits of Outdoor Living Walls

- Remove air pollutants
- Reduce urban temperatures
- Thermal benefits to buildings
- Improve biodiversity
- Attenuate Rain water
- Reduce noise
- Increase productivity & creativity
- Improve sense of well-being
- Health benefits

Improve biodiversity

Living walls not only increase the biodiversity of an urban space with plants, they offer vital nesting space, shelter and food for birds and insects. Bees and butterflies will take to living on the green wall within days of installation.

Outdoor Living Wall Benefits for People - GREENER SPACE – HAPPIER PEOPLE

We like to be in nature. We like to look at nature. It calms, uplifts and restores us. By bringing nature into the hearts of our cities, street, homes, we remind ourselves of our place in and our responsibility for our community. Installing a living green wall on the east elevation would be a stunning vista for the neighbouring residents of those flats to look onto, who otherwise view's is of a concrete parking lot.



The living green wall will be restricted to the east elevation only and limited to the first storey, Providing a wonderful vista of greenery for nearby residents.