

## *Sustainability Statement*

### **1 Parabola Mews, Bayshill Lane, Cheltenham, GL50 3AX**

28<sup>th</sup> September 2023

#### Introduction

1 Parabola Mews is in the Montpellier area of Cheltenham, within Cheltenham Borough Council.

The property is a semi-detached dwelling, originally constructed in the 1980s. The original building is cavity wall construction.

There is limited opportunity to greatly impact the thermal efficiency of the existing building.

The following key measures have been considered:

#### Key Measures

##### **Building Fabric Design and Detailing**

Insulation is the key part of sustainability. It serves to conserve energy by minimising the escape of heat from the building.

Due to the age of the building, heat loss is a principal issue in this dwelling. The proposals will involve upgrading the insulation value of the existing structure where possible. For example, the roof will be insulated to modern standards and new double glazing installed where possible.

The new dwelling will be served by a modern boiler which is efficient and uses low carbon to heat the dwelling. With the upgrading of the insulation, it is expected that less heat will need to be generated to provide the warmth required for the dwelling.

All sanitary ware and fittings will comply with current building regulations in terms of maximum flow rates, thus conserving water. All pipe work will be insulated to prevent heat loss and where possible pipe runs shortened to minimise pipe lengths and loss of heat.

There is the opportunity to install a rainwater butt at the rear of the new extension to provide water to irrigate the garden.

**Transport and Travel**

The property is situated in the town centre, within walking distance to shops, restaurants and other amenities.

**Recycling**

The household recycle all waste in accordance with Cheltenham Borough Council's recommendations.