Sustainable Design Summary

The design is considered in relation to principles of sustainable design, including:

- High performing new elements will aid thermal performance, reducing heat loss and long term running costs - targeting thermal performance. Internal wall and floor insulation, new windows and doors, increased loft and roof insulation. External walls are to be insulated and clad to reduce maintenance requirements.
- Maximise natural daylight to all living spaces to provide healthy living environment Air Quality - Cross ventilation, mechanical ventilation heat recovery, passive ventilation
- Openable windows and rooflights will natural ventilation to the enable the property to breathe, creating a stack ventilation effect, drawing cooler air through the property.
- Layout and accommodation of future wheelchair use, encourage movement throughout day, access to garden - open living space to natural setting
- Living space is opened to setting to encourage activity throughout the day
- Adaptable spaces to meet current and future living requirements and flexibility to design of spaces to allow for adaptation with minimal material alteration and energy consumption to meet changing family requirements. Surface Water Drainage - SuDS, Permeable drainage design, soakaway design
- All surface water to drain to dedicated soakaway located in garden.
- All fixtures and fittings to surpass Part G Approved Document
- Vehicles -Vehicle parking spaces, plus turning area, option of additional overflow parking and provision of electrical charging outputs. Space for storage of bicycles, refuse, recycling and food waste, etc