Appendix A – Climate Change Statement

Climate Change Statement for Planning Applications

Part 1: Applicant details

Name of applicant/ agent	Kathryn and Richard Summers
Site Address	The Croft, 150, Denby Lane, Upper Denby, Huddersfield, HD8 8UN
Description of Development	Two New Build Dwellings

Part 2: Climate Change Mitigation measures

Please respond to the following questions considering the measures set out in the Climate Change Guidance note:
Q1: What measures have been/will be taken to reduce the energy demand associated with your proposed development beyond the minimum required in Building Regulations? (See section 2)
Solar photovoltaic (PV) panels will be installed on the roof to generate renewable electricity, reducing reliance on grid-supplied power. Where feasible, air-source heat pumps (ASHPs) will be installed to provide efficient heating and hot water with lower carbon emissions compared to conventional systems. Smart thermostats and energy management systems will be integrated to ensure efficient energy use by allowing residents to monitor and control energy consumption.
Q2: What measures have been/will be taken to limit the carbon consumed through the implementation and construction processes, e.g. by reusing existing on-site materials or sourcing materials locally? (See section 3)
Wherever feasible, existing on-site materials, such as topsoil and subsoil, will be reused to minimize the need for transporting materials to and from the site. Construction materials, such as timber, aggregates, and other building products, will be sourced from local suppliers where possible to reduce transportation emissions and support the local economy. Construction machinery and vehicles will be operated efficiently, with efforts made to minimize idling times and use low-emission equipment where possible.
Q3: What measures have been/will be taken to utilise renewable or low carbon energy sources? (See section 4)
Solar PV panels will be installed on the roofs of the houses to generate renewable electricity on-site. This will reduce reliance on grid-supplied power and lower overall carbon emissions. High-efficiency air source heat pumps will be installed to provide low-carbon space heating and hot water. ASHPs operate with significantly lower carbon emissions compared to conventional gas or oil heating systems.

Q4: What measures have been/will be taken to ensure the building design and layout has been optimised to energy efficiency beyond the minimum requirements in Part L of the Building Regulations ? (See section 5)
The development prioritizes a fabric-first approach, enhancing the thermal performance of the building envelope to minimize heat loss and energy demand. Window sizes and placements have been optimized to balance natural light and thermal performance, reducing both heating and lighting demands. The building layout ensures ample natural daylight, reducing reliance on artificial lighting. Carefully designed window placements and roof lights will improve interior lighting conditions while minimizing energy demand.
Q5: What measures have been/will be taken to reduce potential impacts of flooding associated with your proposed development? (See section 6)
A Sustainable Drainage System (SuDS) will be implemented to manage surface water runoff effectively.
Q6: What measures have been/will be taken to reduce water stress associated with your proposed development? (e.g. Water retention and minimisation measures) (See sections 7 and 8)
Rainwater harvesting systems will be installed to collect and store rainwater from roof surfaces. This harvested water can be reused for non-potable purposes such as garden irrigation, car washing, and external cleaning, reducing the demand for mains water.
Q7: What measures have been/will be taken to provide biodiversity net gains? (See section 8)
The scheme is exempt from BNG due to both dwellings being Self/Custom Builds.
Q8: What measures have been/will be taken to reduce air pollution associated with your proposed development? (See section 9)
EV charging infrastructure will be installed to encourage the use of electric vehicles, reducing transport-related air pollution. Sourcing materials locally where possible will reduce transport emissions associated with deliveries. The proposed development will use air source heat pumps (ASHPs) instead of traditional gas boilers, eliminating on-site combustion and reducing emissions of nitrogen oxides (NOx) and particulate matter (PM). The landscaping strategy will include tree planting, hedgerows, and other green spaces that act as natural air filters, capturing pollutants such as particulate matter and carbon dioxide (CO_2) while improving overall air quality.