Hurst Green C of E Primary School

Sustainability Statement

In preparing this report, we are guided by the East Sussex Corporate Sustainable Buildings Policy document a copy of which is attached in Appendix 1.

Design Approach Checklist

With reference to the issues highlighted in the Design Approach Checklist, we comment as follows:

- Adopt Passive Design Principles
 - 1. It will be our intention to utilise thermal mass in the form of concrete blockwork and precast concrete floors
 - 2. It will be our intention to maximise natural ventilation; our proposed section allows for cross ventilation to a majority of areas
 - 3. It will be our intention to maximise natural light; our proposed section allows for lighting to both sides to a majority of areas
 - 4. It will be our intention to maximise even north light to the hall and to minimise excessive solar gain; our proposed section shows roof overhangs and first floor overhangs to shade a majority of areas from summer sun
- Identify Infrastructure Opportunities
 - 1. Communal heating and power supplies; this is not applicable on this existing rural village fringe site
 - 2. It is our intention to use the Waste & Resources Action Programme (WRAP) Demolition Protocol to identify the opportunities for re-use of demolition materials; this will be in the form of re-used brickwork for paving and re-used crushed masonry for hardcore etc.
 - 3. Community facilities; this is not applicable on this rural village fringe educational site. However, community use of the hall and the ICT area will be encouraged by the school during out of school hours
 - 4. Local Transport Facilities; this is not applicable on this rural village fringe site adjacent to the A21 trunk road. The school Travel Plan discourages cycling and walking to school on the grounds of safety
- Use Materials with Low Embodied Energy
 - 1. It is our intention to use the WRAP Recycled Content Toolkit to achieve a minimum of 10% recycled material content by value.
 - 2. Where feasible, it is our intention to specify 10% recycled concrete aggregate and blast furnace slag as appropriate
 - 3. Where feasible, it is our intention to specify timber over steel; we are investigating the use of cross laminated timber for the main structural elements
 - 4. Where feasible, it is our intention to use a local supply chain to minimise transport miles of materials and workers
- Increase Performance of Building Fabric
 - It is our intention to use the Green Guide to Specification to advise on all building specification. Our proposals will achieve at least a "Very Good" standard under BREEAM
 - 2. It is our intention to increase insulation, in line with BREEAM guidelines, to greater requirements than those of Building Regulations

- 3. It is our intention to use the Green Guide to Specification to specify 'A' rated materials with low VOCs AND HFCs to all internal applications
- 4. Where thermally massive structures are being used, consider green roofs; this is not applicable on this existing rural village fringe site where local vernacular materials will be more appropriate
- Minimise Energy Use and Waste through Environmental Systems
 - 1. It is our intention to reduce reliance on mains heat and power by adopting a renewable energy supply; we are investigating the use of ground source heat pumps and solar thermal panels
 - 2. It is our intention to incorporate a rainwater harvesting system
 - 3. It is our intention to incorporate Building Management Systems, where feasible, to allow building users more sophisticated control of heating and power systems
 - 4. It is our intention to incorporate a Sustainable Drainage System to minimise water run off to mains drainage

Lifecycle Graphic

With reference to the issues highlighted in the Lifecycle Graphic, we comment as follows:

• Prepare

The development will be subject to a BREEAM assessment and a rating of at least "Very Good" will be required

The existing site waste will be considered for re-use in the new development The Contractor will be asked to prepare a site waste management plan An Ecological Survey has been carried out

• Design

The design team are responding to the ESCC sustainable buildings policy This sustainability report will form part of the planning application submission design and access statement

The design approaches suggested in the ESCC sustainable buildings policy are being considered and implemented

The WRAP Quick Wins toolkit will be used

The design team and, in particular, the landscape architect will be taking steps to ensure long term enhancement of biodiversity

Construct

The design team are using the ESCC sustainable design brief The WRAP Quick Wins toolkit will be used The contractor will be asked to prepare a site waste management plan The identification of a Procurement Champion to monitor the involvement of a local supply chain will be considered

• Use

The building will be subject to an at completion DQI assessment The monitoring of the energy consumption of the building through TEAM will be considered

The adequacy of training to be given to users to enable them to monitor their own energy use will be considered

• Re-use

The possible re-use of elements of the building, where feasible, will be assessed The re-use of site waste from the building where feasible, if decommissioned, will be identified in the health and safety manual

Burns Guthrie & Partners

21 July 2009