

The Re-development of High Storrs School – Project Summary

The Project & The Building.

The project to re-develop the High Storrs School consists of four main elements of work:

- The refurbishment of the existing Grade II listed building and demolition of the un-listed extensions. This refurbishment is taking place in four phases to allow continuation of the day to day running of the school. Also, a large temporary teaching complex has been provided to ensure there is adequate space for all school activities.
- The construction of a new two storey block at the north end of the existing school to provide modern dining facilities, further teaching accommodation and administration space.
- The Construction of a new sports hall and associated facilities to the south end of the existing school.
- External works generally to the perimeter of the building including refurbishment of the two existing courtyards and provision of an entrance plaza between the existing school building and new north block.

Key Aspects of Design

Some of the key features of this project that have been incorporated to reduce impact on the local and global environment include:

- Managing the earthworks such that material remained on site hence reducing the number of lorry movements on the local roads.
- Re-use of demolition waste – this has been crushed and used as hardcore.
- Use of PIR controllers & automatic daylight saving to classrooms to reduce electricity consumption.
- The use of thermostatic radiator valves to allow the occupants to have control of the heating system.

Reduction of Construction Activity Site Impacts

Some of the measures that are being taken during the re-development of High Storrs School to ensure the impact of Construction activities on the environment are minimised include:

- The site cabins being used are eco friendly and have features such as enhanced levels of insulation, PIR control of lighting and enhanced glazing.
- All site waste is segregated into waste streams to ensure it can be re-cycled efficiently upon removal from site.
- Dust suppression techniques have been employed to minimise air pollution.
- Hedgerows and trees adjacent to the site have been fenced off and protected from construction activities.

Social & Economically Sustainable Measures

Some of the social & economical measures within the project are:

- A building of robust design to minimise replacement of damaged materials.
- A facility that can be used by all of the community – in particular the sporting facilities.
- Engagement of a Geology Class during the Site Investigation process to enhance the core teaching.

Facts & Figures

- The BREEAM rating the project must achieve is “Very Good” – Currently we are on course for this.
- The Basic Building Cost in £/m² is 1 785 / m²
- Building Services Costs in £/m² is – 412 / m²
- External Works Costs in £/m² is – 178 / m²
- The gross floor area for the completed new & refurbished building is 14 393m²
- The total area of the development site including existing sports pitches is 124 000m²
- The area of each teaching faculty is:

English & Modern Foreign Languages	= 1091m ²
Mathematics & IT	= 991m ²
Performing Arts, DT & Art	= 1973m ²
History, Geography & RE	= 628m ²
Science, Psychology, Food & PE	= 2598m ²
Inclusion Support	= 404 m ²
Administration & Staff Areas	= 637m ²

- The total area of teaching space is 8 394m²
- The total area of circulation space is 3 134m²
- The total area of storage space is 480m²
- The approximate % area of school grounds to be used by the community is 30 %
- The approximate % area of school buildings to be used by the community is 16%
- The predicted electricity consumption is 24 KWh / m²
- The predicted fossil fuel consumption is 136 KWh / m²
- The predicted water use is 4 m³/pupil/year
- Currently there are no renewable energy or rainwater harvesting technologies being installed as a part of this project.