

CASE STUDY

Project: Ashfield Girls High School

EDUCATION

Scope: Electrical

Value: £1.2 million

Client: BELB / Amey Business service

Main Contractor: H & J Martin

Consultant: Connell Mott MacDonald

Duration: 20 months

Completion: August 2009



Brief

Blackbourne Integrated M&E were appointed to carry out the Electrical Services on this new school building.

The new Community School was 11,000m² over 3 floors and consisted of class rooms, 2 sports halls, a multi purpose hall, dance studios, fitness suites, outdoor sports pitches, changing facilities, kitchen and dining area and a multi purpose area within a 15M glazed atrium suitable for stage productions etc. The school is used by 800 pupils during the day and members of the local community in the evenings.



Solution

All members of the design and construction team collaborated with each other in order to create a best value design over the life of the building.

The key objectives were to provide high quality and to reduce maintenance and replacement costs. Designers and contractors agreed to use common products and materials where possible on all schools, this had the following benefits:

- 1) Product technical submissions were the same across all projects which reduced submission and approval times.
- 2) Contractors were able to get better prices for materials based on purchasing high volumes.
- 3) Both designer's and contractor's time on future projects could be reduced because both parties are now familiar with the products.
- 4) Amey would save money on the maintenance of the schools as they would have a limited number of maintenance contracts to agree and the number of spares for systems could be reduced as they would be common to all schools.

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Result

All necessary work to meet the client's requirements were carried out within the tender budget. This was achieved by working closely with the M&E design team to ensure that their design was in line with the tender budget.

We have worked closely with the main contractor throughout the project and completed classrooms early to enable us to ensure fitness for purpose. We aimed to identify and solve any potential problems that could have arose closer to hand-over. It was a fast-track programme and a close working relationship was critical to the success and timely opening of the school. The only variations on this contract were additional services instructed by the client.

The quality of the installation was monitored by the Facilities Management contractor who will maintain the school for the next 25 years.



Scope of Work

- Services co-ordination.
- Main LV switchboard.
- Sub mains cabling and distribution boards.
- Lighting and Emergency lighting.
- General Power Installation.
- Fire alarm and PA system.
- Security systems consisting of CCTV, door access and intruder alarms.
- IT cabling network.
- TV cabling network.
- Power and control cabling for mechanical systems such as sprinklers, ventilation, heating and cooling systems.
- Testing and commissioning.
- Demonstrations of systems and O&M manuals.

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