

CASE STUDY - BIRLEY & PARKWAY FIRE STATIONS



HEADLINES

2

fire stations designed and installed simultaneously to meet exact deadlines

BIM LED

M&E delivered in conjunction with BAM Construction's BIM department

2

G&H divisions - Building Services and Sustainability worked together to maximise building performance



KEY FACTS

Project title: Birley & Parkway Fire Stations
Location: Sheffield (two sites)
Client: South Yorkshire Fire & Rescue
Services: Mechanical & Electrical

Contractor: BAM Construction
Value: £1.1 Million
Duration: 48 weeks (combined)
G&H divisions: Building Services and Sustainability

CASE STUDY HOW WE DID IT



With South Yorkshire Fire and Rescue committed to closing the old Mosborough, Darnell and Mansfield Road Fire Stations within one day of opening these two new replacement stations, we had to meet non-negotiable deadlines to ensure a vital 999 service was fully operational.



As both fire stations were new build projects, we had the opportunity to design and install class-leading M&E services. Our in-house BIM team worked in partnership with the main contractor, BAM Construction, who were leading the project, also using BIM.



This enabled us to model pipe sizing, cable calculations and basic energy modelling to such a degree that M&E engineers were able to work side by side and speed up the entire installation process.

A high level of planning was required to meet the exact deadlines imposed for the project completion and handover.

Labour resources were managed so specialist designers, engineers and commissioners were available at key milestones and throughout the process.

A similar approach was required with the forward ordering of parts given the scope of works saw us install a LPHW heating system and plant room; new HRU ventilation systems; air conditioning; small power and data; full lighting, fire alarms and television installations. G&H Sustainability complemented this by installing solar PV and air source heat pumps.

Using BIM saved us considerable time compared to traditional methods. Significantly, it played a crucial role in helping us deliver two faultless schemes that comfortably opened on time and to critical acclaim by the client and main contractor.

“ CLIENT REACTION

It has been a long time since I have experienced as good a service from a Mechanical and Electrical subcontractor.

Daniel Walsh, Project Manager BAM Construction

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