

Two new laminar flow theatres and associated spaces built within the existing East Wing of Worthing Hospital. AMA scope included full MEP design duties.

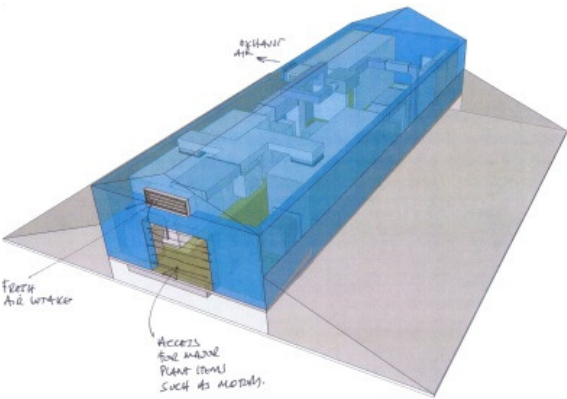
Client: Kier / Western Sussex Hospitals NHS Trust  
Value: £2.6 million  
Date: 2011

Restricted space was a challenge for this project. The space for plant was very limited, and AMA utilised existing infrastructure where possible. Plant in very close proximity to theatres. AMA used SketchUp for 3D design and to spatially check existing roof space for new air handling plant.

AMA method included survey and network analysis of existing chilled water mains and low temperature hot water mains to check sufficient capacity. We used a sub circuit low loss header concept to connect to the existing LTHW, which we find works well where one wants to limit the impact on the hydraulics of existing systems.

### Key points:

- Thorough visual surveys carried out
- Investigation of existing infrastructure
- 3D visualisation
- Detailed co-ordinated design with attention to detail



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