

## Guys & St Thomas' Hospital Project

### New External Modular Data Centre

**Client Brief:**

To supply and install a high security external modular room, to house 20 x 19" computer cabinets at the hospital.

**Timescale:**

A twenty week design and build programme.

**Logistical Challenges:**

Secure I.T. Environments Ltd designed a new IT room for the hospital to fit within the space allocation in the old cycle store area. The logistical challenges included ensuring the operational functionality of the hospital continued throughout the data centre build programme. This required all deliveries of large plant equipment for the installation to be delivered in the very early hours on a weekend to ensure that the emergency service vehicles are not impeded at any stage of the build.

In addition, maintaining the highest levels of security when the project was largely open within an area that could easily be accessed by the public and therefore health and safety was a high priority.

Being close to the River Thames the threat of flooding was a serious consideration - Secure I.T. Environments developed a tanking system which incorporated a membrane and concrete flood defence barrier around the external perimeter of the modular room to eliminate the threat of any high level standing water penetrating through the modular room walls. The remaining energy efficient infrastructure includes, heavy duty raised access flooring, HV & LV power infrastructure, air conditioning (N+1), structured cabling, UPS systems (N+1) Fire suppression and detection, 19" server and communications cabinets, cold aisle containment, access control, CCTV and intelligent building management system.

**Room Size:**

97m<sup>2</sup>

