



Queen Elizabeth Hospital: CT & MRI Departments

Queen Elizabeth Hospital and its operator, Meridian Hospital Company, required a trusted partner to create a new CT department via a one-storey extension and also to modernise the MRI facilities within the main hospital.

The solution

The client enlisted Building Solutions (the specialist building and refurbishment arm of VINCI Facilities) to deliver a £4.3m programme of works, which would run concurrently over 32 weeks (CT) and 18 weeks (MRI).

Now complete, the following elements proved vital to the success of this Design and Build project:

Exceptional design

The premium design and the input of several stakeholders has contributed to the creation of facilities that have been delivered to an exceptionally high standard yet within a relatively modest budget. Key aspects of the facilities include:

- » **Aesthetics:** Modern colours, decals, digital skylights and other design decisions from the architect and Building Solutions' team combine to give the facilities the look and feel of premium private clinics.
- » **Longevity:** Frame and wall protection measures have been introduced to improve the lifespan of the facilities.
- » **Clinical steering:** Throughout the duration of the works, fortnightly design meetings were held between Building Solutions, the client, its design team, and representatives from the clinical team, ensuring the designs and installations meet the needs of the staff and patients.

Flexibility

Demonstrating a flexible approach, the team accommodated several design alterations at short notice. For example:

- » The client's Fire Officer requested the installation of a new fire exit in the side of the CT facility, which required the team to alter their working methods to maintain fire exit routes and add a new ramp to accommodate different floor heights.
- » When demolishing a partition wall within the MRI waiting room, Building Solutions discovered a steel column that wasn't identified in the as-built drawings. The team successfully incorporated the feature within the layout of the room without incurring any additional costs or delays.

Maximising safety

Removing the five-tonne MRI scanner required Building Solutions to create a 2.5m x 2.5m opening in the building's façade and to erect custom, heavy-duty scaffold and crash deck systems. A crane was then used to safely remove the scanner and install a replacement unit.

Minimising disturbance

As the project was undertaken in a live hospital environment, the team phased the works to minimise downtime of key facilities, introduced noise control measures, and held weekly meetings with clinicians to tailor works around their needs.

SCOPE OF WORKS

CT Extension and Refurbishment

- » Construction of a single-storey extension utilising piling, steel frame, and cladding, and with an undercroft below.
- » Creation of new facilities including cannulation rooms, CT scanner, entrance area, waiting room, prep room, drug store, control room, and lift.
- » Installation of all associated works, including medical gases, data, fire alarm, telephone, heating, two digital skylights, and plant equipment on roof.

MRI Refurbishment

- » Removal and decommission of old MRI scanner, ready for resale by the Trust.
- » Installation of temporary mobile MRI scanner and walkway until the replacement was commissioned.
- » Installation and commissioning of new MRI unit.
- » Reconfiguration of spaces including control room, technical room, cannulation room, consent room, office, and circulation areas.
- » Creation of additional waiting areas.
- » Installation of all associated works.

KEY RESULTS

- » Completed with zero accidents, zero environmental incidents, and zero complaints from staff and patients.
- » All H&S audits passed with no issues (conducted by VINCI Facilities' central H&S team, the client, and the PFI holder).



Meridian Hospital Company

BUILDING SOLUTIONS

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