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Project: **University Hospital of South Manchester**

Extension and alterations to the existing Cardiac Unit at Lower Ground and First floor levels with additional associated parking areas

Job Reference: 3303

Background

As a part of the continued investment in the hospital's Cardiology facilities, UHSM seeks to extend the medical imaging suite at lower ground floor with associated administrative, conference and welfare facilities to the first floor.

The hospital has identified the requirement for two additional cardiology MRI scanners and a cardiology CT scanner to allow sufficient capacity and access for the Greater Manchester population and to be compliant with the National Institute for Health and Care Excellence (NICE) guidelines.

Use

The Lower ground floor of the proposed extension will be split into two discreet areas: a CT suite and an MRI suite. Each area is self-contained and house the required supporting spaces i.e. sub-wait, changing and clinical space to enable the two suites to operate independently in a controlled manner.

To make the most efficient use of the available footprint, all associated electrical and mechanical plant is to be positioned at roof level and fully screened so as not to be visible by neighbouring properties.

Staff welfare and associated reporting rooms are located on the first floor.

Layout

The layout of the proposed development has been driven in part by the layout of the existing MRI suite located to the lower ground floor of the Cardiology Centre. The existing imaging suite and Intensive Care Unit (ICU) to the first floor must remain in operation during the proposed works so intrusions and modification have been kept to a minimum. The proposed additional MRI and CT suite will be accessed via the existing dedicated medical scanner reception space where patients will be directed via a glazed link to the relevant sub-wait areas for their MRI or CT examination.

High-dependency patients (i.e. emergency cases where the patients are transported on mobile beds) may access the proposed MRI area via the existing suite to reduce travel time.

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The first floor links through to the existing ICU for use as a secondary escape route in the event of fire.

The first floor is accessed via a stair core to the South West of the proposed development which is connected to the glazed link and adjacent to the entrance into the new imaging suite.

The sizes of the individual rooms are based on current HBNs, the scanner provider requirements and reflect the hospital's own standard gained through end user experience and local operational knowledge.

Scale

The proposal has been scaled mindful of the existing building and the operational requirements of this specialised centre.

The fenestration and cladding panel proportions and the material palette faithfully mirror the existing Cardiac Centre.

The Northern Facade is brought forward, approximately in-line with the main hospital building frontage. The overall height of the proposed building is lower than that of the existing Cardiac Centre.

Safety

The existing & proposed imaging suites and first floor staff and offices have control doors which will prevent unauthorised access.

Each stage of the patient's 'journey' is restricted by control doors protecting both patients and staff.

Access

Due to the mechanical and electrical service requirements for the scanners, the existing Cardiac MRI suite floor level is lower than the main entrance level. The proposed development continues this lower ground floor level.

The external ground level is tapered to this level allowing for unobstructed access for both ambulant and wheelchair bound patients.

The dedicated entrance will provide level access from external to lower ground floor level with automated sliding doors providing ease of entry for all.

New corridor widths give space for passing wheelchair traffic. Door openings are provided in accordance with the current building regulations for disabled access.

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The existing bed-lift will allow access from the ground floor to the lower ground floor when required. A new passenger lift is to be installed in the proposed stair core in accordance with the Equalities Act 2010.

Environmental Sustainability

All works will be completed in accordance with the latest Building Regulations and Good Building Practices. The plant associated with the MRI & CT facility and any additional heating and ventilation equipment will be designed to meet industry recognised best practice and efficiency ratings.

Landscaping & External Hard Standing

The mid-height hedging to the Western site boundary will be retained up to the proposed parking area B as will be the two mature trees. The existing small trees located to this area are to be removed.

Temporary Works

The existing mobile scanner's electrical connection is to be moved to the Southern end of the existing car park, enabling the continued use of the scanner during the construction process. The connection will remain at this location once works are completed for future use.

The contractor's compound has been shown on the submitted plans. Once the works have been completed, the modified parking area will be re-lined and put back to use. All temporary hoardings will be removed ready for full re-utilisation.