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NEW PLANT ROOM AND EXTERNAL FLUE
University Dental Hospital of Manchester

ACCESS AND DESIGN STATEMENT



INTRODUCTION

This statement has been produced in support of a planning application for the replacement of the dental hospital heating system.

SITE CONTEXT AND PROPOSED DEVELOPMENT

Applicant / Site

Central Manchester University Hospitals NHS Foundation Trust,

University Dental Hospital of Manchester, Higher Cambridge St, Manchester M15 6FH



PROPOSAL

The Turner Dental Hospital is currently heated from a steam main which is fed from the University of Manchester central heating system. As from May 2014, (end of the heating season) the Dental Hospital is having the incoming steam main shut off to the building.

To replace the dental hospital heating system a new gas fired boiler installation shall be installed to provide heating to the hospital.

It's proposed that the existing file store which lies to the rear of the building is to be converted into a boiler room to house the new gas fired boilers.

The new heating plant shall connect to the existing heating pipework distribution system within the hospital.

The new heating system will be operational by September 2014

LOCATION

The location of the new boiler plant room has been chosen as it's in close proximity to gas supply, and the works have minimal impact to the building occupants during the working day.

The location of the flue couldn't be routed through the building as there are no risers to accommodate the flue and routing externally in the proposed location is the most suitable option.

East Elevation



TECHINCAL

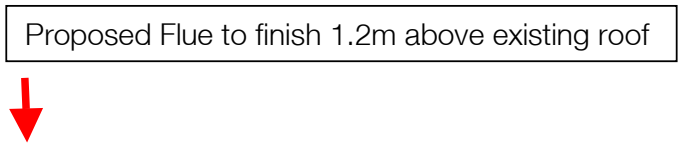
New powder coated steel flue to leave the new plant room through the roof, and up the main east elevation of the existing building. When the flue reaches the top of the masonry wall, it will run along the existing flat roof, and be taken up vertically next to the metal clad plant room. The flue will finish a maximum of 1.2m above the existing plant room roof.

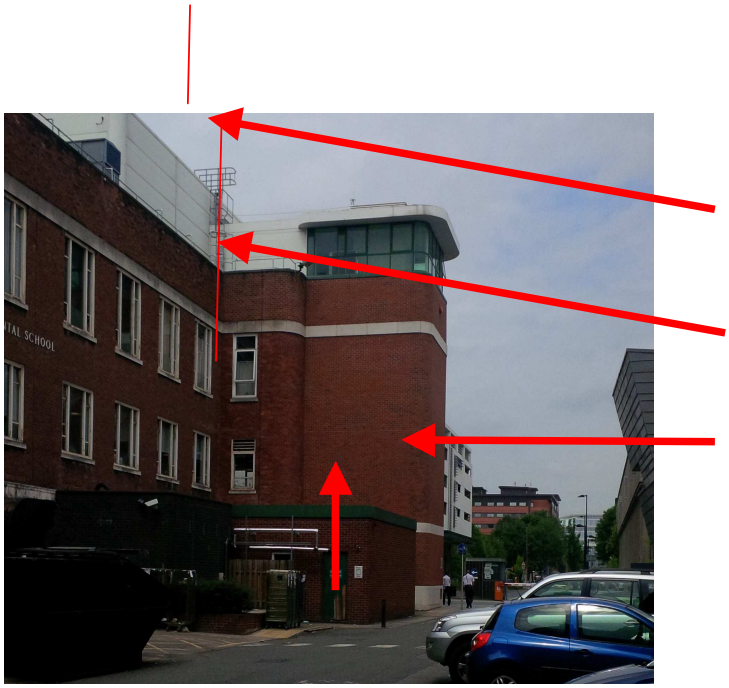
The existing medical records store is to be converted into a plant room to accommodate the new boiler. Existing windows to be removed and bricked up in masonry to match existing construction for security reasons, and existing timber doors to be replace with new powder coated steel doors. Also an additional double powder coated steel door will be provided on the main east elevation, to provide better access for install / removal of plant.

New floor finish and wall finishes, with the floor been finished with RIW tough seal to prevent fluid loss from the plant penetrating the existing slab.

The boilers being of low Nox, and condensing type shall be discharging above the main building roof at 1.2meters above the highest point. Boiler spec - VITOCROSSAL 200 Gas condensing boilers 400 to 620 kW

East Elevation





Full Acoustic survey was carried out by Sound Research Labourites, please see attached report.

ACCESS

Existing timber door to be replaced with powder coated steel door for security reason, this will be used for personal access to the new plant room.

Also an additional double powder coated steel door will be provided on the main east elevation, to provide better access for install / removal of plant.

LANDSCAPING

Existing hard landscaping to remain, and be made good where necessary.

SUMMARY

As from May 2014, (end of the heating season) the Dental Hospital is having the incoming steam main shut off to the building.

New gas heating system to be installed.

The existing medical records store is to be converted into a plant room to accommodate the new boilers.

New powder coated steel flue to east elevation to finish a maximum of 1.2m above the existing plant room roof.

The new heating system will be operational by September 2014.