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ROYAL FREE HOSPITAL
2NA ITU
ROOF LOCATION FOR VENTILATION PLANT
JOB NO: 2180

DESIGN AND ACCESS STATEMENT

9th July 2020

1. Description of the proposal and plant summary

The work includes the installation of ventilation plant dedicated to serve an ITU, required for advance COVID-19 surge capacity. The plant is to be located on the 2nd floor level roof at the Royal Free Hospital, adjacent to the area it serves. This is to provide mechanical fresh air ventilation and an air source heat pump to provide heating and cooling for space temperature control. The ventilation plant is required to provide clinical air change rates and critical space temperature control to the ITU, as per HTM and HBN guidance.

The project comprises the installation of 1no supply and extract air handling unit, mounted on a 'Big Foot' support frame. There are 3no condensing units providing heating and cooling to this AHU for space temperature control. There is also external supply and extract ductwork at high level, running the length of the elevation with 2no entry points to the internal space.

This plant is required to provide a compliant clinical space due to the pressures imposed on the Trust in fighting the effects of the COVID-19 pandemic and in readiness for any potential future surges.

2. Access proposals

The new plant area does not impact on public access around or within the hospital. Access to the plant area will be from the existing hospital and restricted for maintenance personnel.

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