Birkbeck, University of London

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Existing Air Conditioning Within Proposed Teaching Areas

October 2024

MARIS INTERIORS

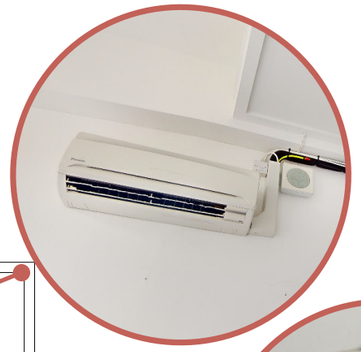
Overview

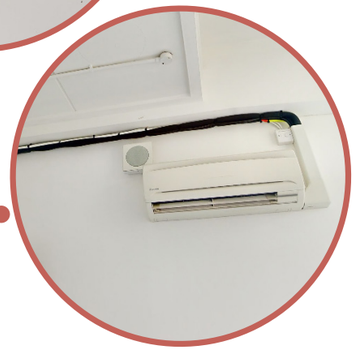
The existing building services have been refurbished and upgraded sporadically over several years to provide mechanical comfort cooling and supplementary heating through refrigerant-based systems, accommodating the evolving requirements of the occupants. The current comfort cooling systems primarily comprise individual indoor fan coil units, which are connected via refrigerant copper pipework to external air source condensers. These condensers are mounted on walls and floors at various levels of the building. Due to the piecemeal nature of these upgrades, the external condensers are dispersed across the building in a disorganized manner, occupying different positions and levels. This situation has also been documented in the Savills technical due diligence report from December 2020.

The proposed solution involves the removal of the numerous outdated and dilapidated external condensers and the installation of a reduced number of highly efficient heat recovery heat pump condensers, which will be positioned at roof level. These units will offer a more efficient means of heating and cooling while utilising refrigerants with significantly lower global warming potential. Additionally, the new system will contribute to a substantial reduction in noise levels due to the incorporation of inverter control technology and more efficient fan mechanisms.

Space Plan

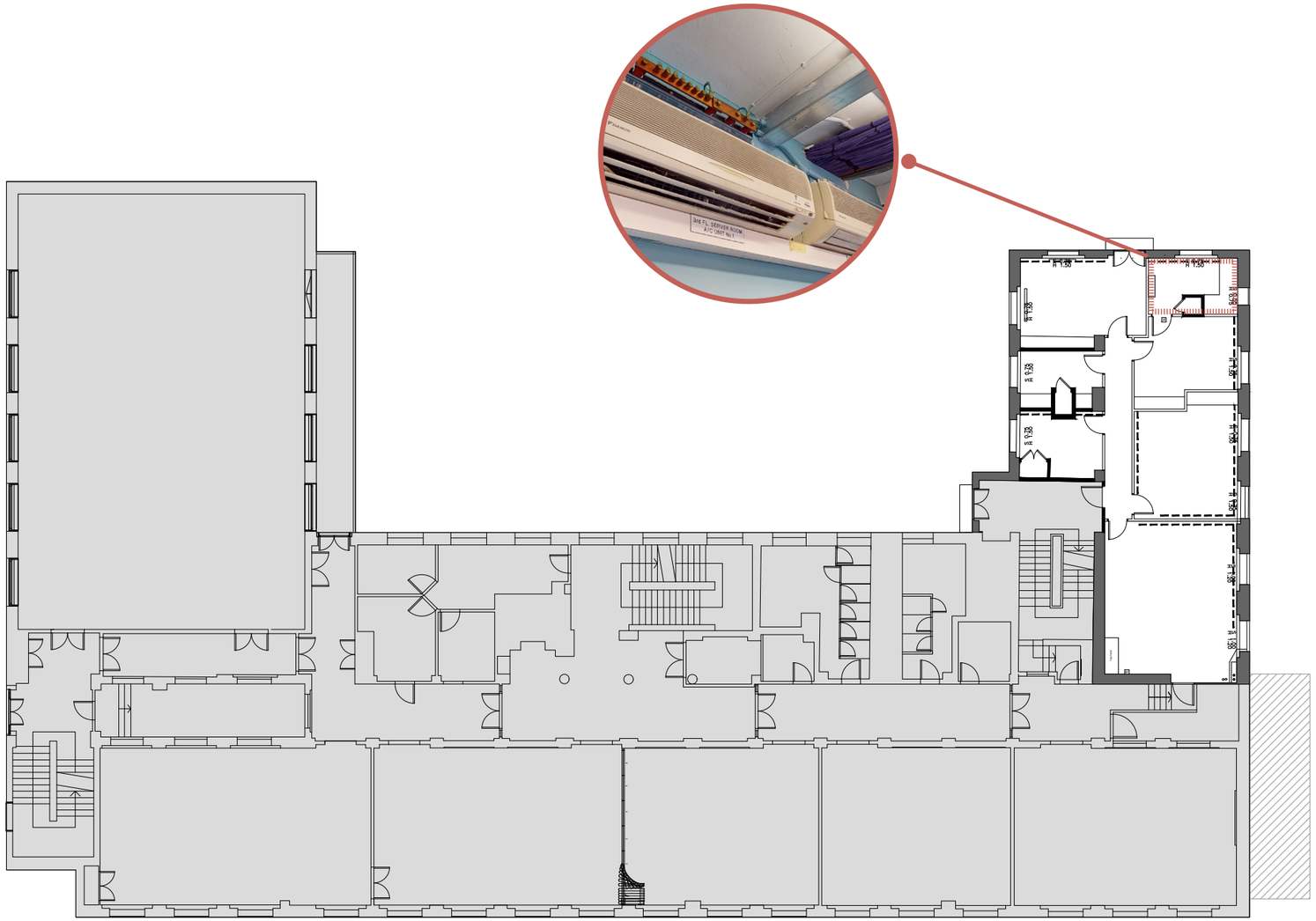
Floor 04





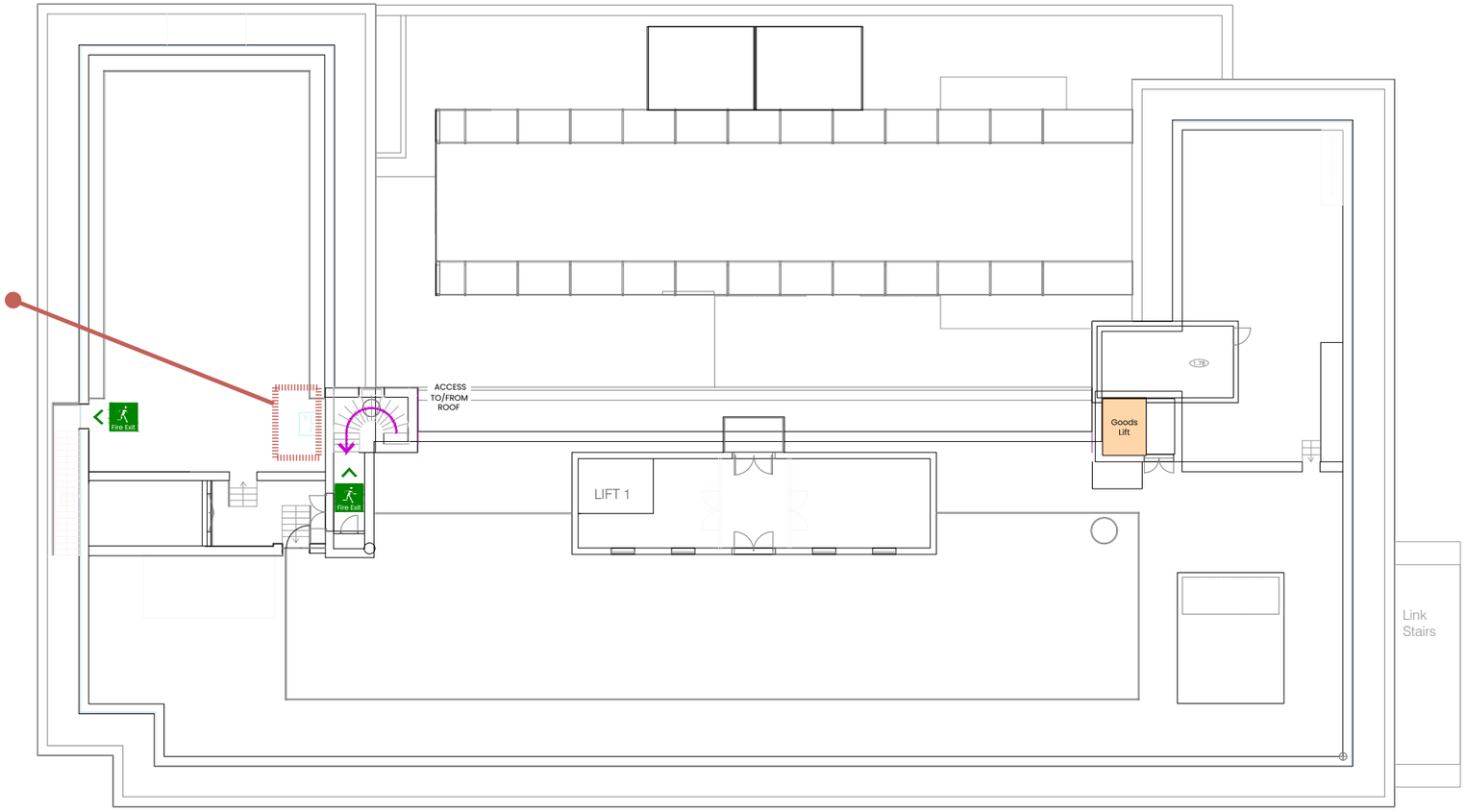
Space Plan

Floor 03



Space Plan

Roof



Thank you

To find out more please contact:

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