



# **London School of Economics Passfield Hall**

Basement Ventilation Replacement  
Listed Building Consent Information Pack

February 2023

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# **London School of Economics Passfield Hall**

## **Basement Ventilation Replacement Listed Building Consent Information Pack**

February 2023

# Issue and Revision Record

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P01	24/02/23	M. Migacz	R. Clark	D. Selvage	Draft for comments

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# 1 Introduction

This document sets out and describes the alterations required to the external façade at the London School of Economics' Passfield Hall site which is a listed building. This document is intended to be used to explain the scope of works required and to get authorisation from the local authority for the proposed works. This document shall be read in conjunction with LSE - Passfield Hall Basement Ventilation Replacement Stage 3 Detailed Design report.

This document highlights where the modification to the external wall façade and external windows are proposed to accommodate ventilation exhaust / intake louvres. Proposed changes are to improve the ventilation provision within the served spaces.

## 2 Existing Ventilation Strategy

Currently, the B07B Potwash Area is served via a window mounted extract fan. The system is inefficient and does not provide required ventilation rate. The external access for maintenance and cleaning of the extract fan is restricted via window metal bars.

The B04 Dry Store is served via a duct mounted extract fan with the exhaust grille being installed within the panel above the B03 Office window. The extract fan proved to be insufficient to deal with the internal gains generated by 2No freezers located within the B04 Dry Store.

For the existing ventilation external façade strategy refer to Appendix A.

### 3 Proposed Ventilation Strategy

It is proposed to remove the existing window mounted extract fan serving B07B Potwash Area and replace it with a wall mounted fan with increased extract duty. The fan itself would be accessed internally, within the B07B Potwash Area. An exhaust louvre will be mounted on the external façade.

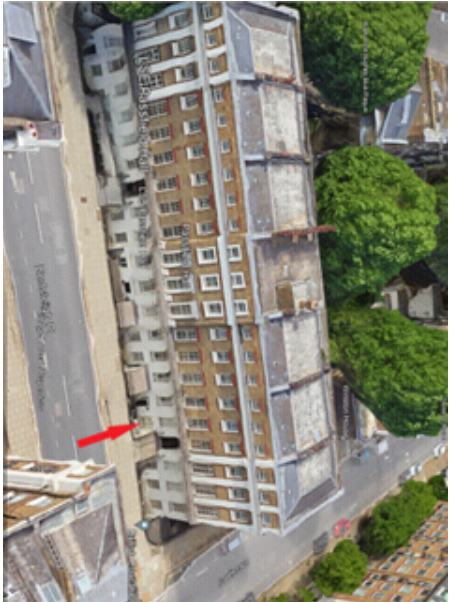
To improve the internal conditions within the B04 Dry Store it is proposed to provide mechanical ventilation with heat recovery to provide required ventilation rate of 10 ACH. This will require two openings within the panel above the B03 Office window. Additionally, it is proposed to provide DX system with internally wall mounted unit and external floor standing condenser to deal with the internal heat gains.

For the proposed ventilation external façade strategy refer to Appendix B.



# Appendices

# Appendix A



Existing ventilation exhaust window provision.

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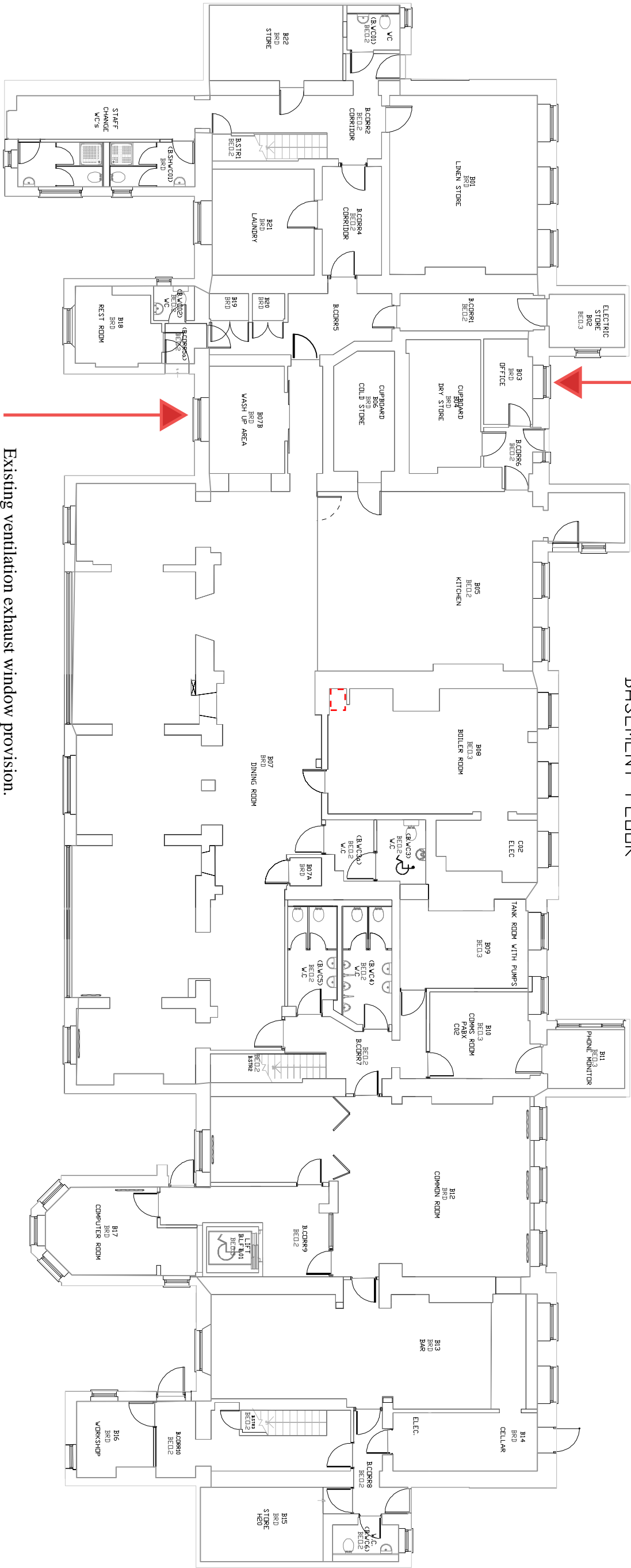
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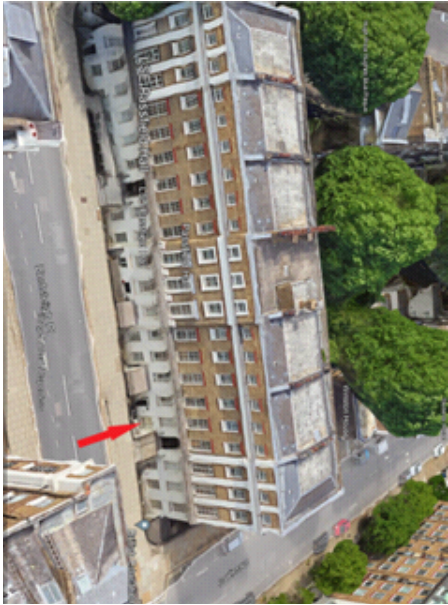
Existing ventilation exhaust window provision.



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# Appendix B



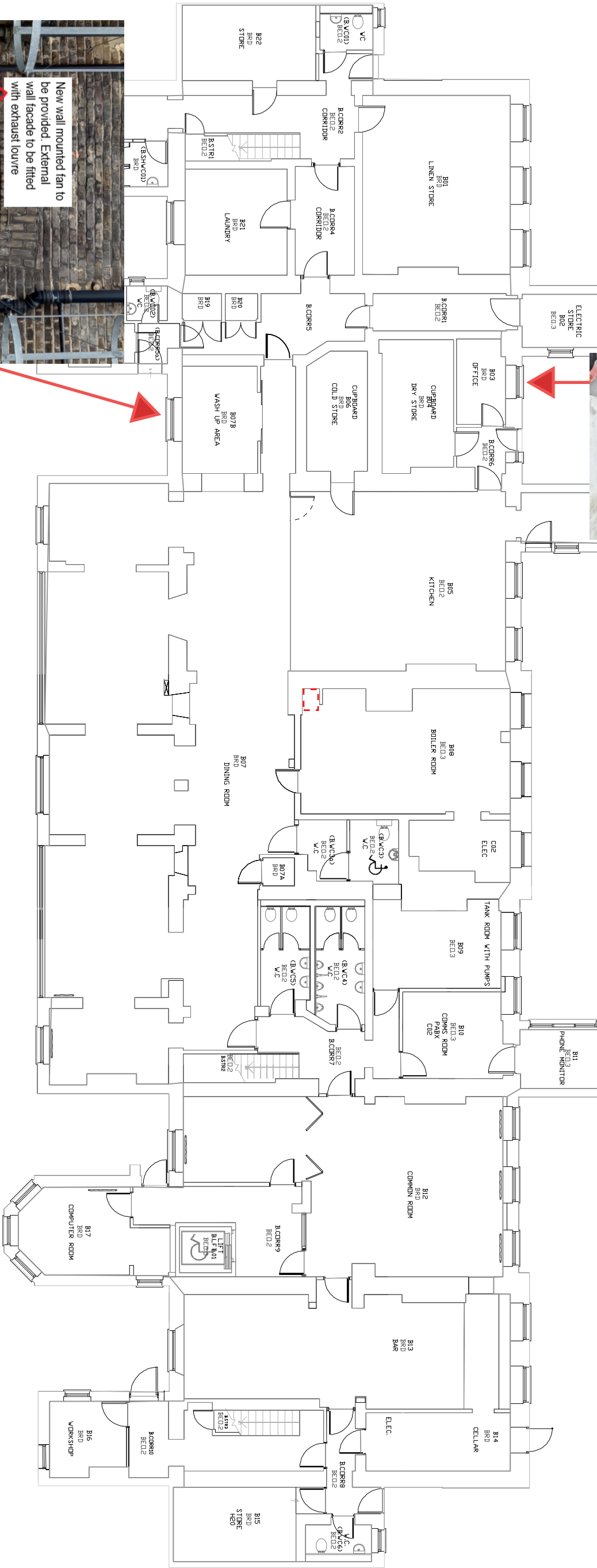


The proposal is to replace the panel at the top of the window including removal of the existing exhaust louvre (red). The new panel will provide new intake (blue) and exhaust (green) louvres.

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**BASEMENT FLOOR**



The proposal is to remove the existing window extract fan (red) (limited accessibility from outside for cleaning and maintenance), with glass window panel to being replaced/made good.  
2No above ground drainage pipes to be removed / capped off at low level.  
A wall opening to be provided for the installation of new wall mounted extract fan (located internally), with exhaust louvre mounted on the external facade the as indicated in yellow.

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