

Building Futures Together

The Board of Governors Uxbridge High School

Uxbridge High School
Ventilation to Science Block

Design and Access Statement

P24-0337

April 2024



Barker

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The Board of Governors Uxbridge High School Ventilation to Science Block Design and Access Statement

Ventilation to Science Block
Uxbridge High School
The Greenway, Uxbridge
Middlesex
UB8 2PR

Prepared For and on Behalf of:

The Board of Governors
Uxbridge High School
The Greenway, Uxbridge
Middlesex
UB8 2PR

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Uxbridge High School: Ventilation to Science Block
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1 Introduction

1.1 Purpose of the Report

This design and access statement is being produced to support the planning application for Uxbridge High School regarding the replacement of windows and installation of new louvred vents. This document will provide background information on the site and the school alongside reasoning for the application. Finally, it will go through the proposed design and related information to provide a fuller understanding of the proposed work.

1.2 Reasoning and Overview of Proposed Works

The science block does not currently have a working ventilation system. The school propose to upgrade the ventilation system to provide the required ventilation to the science rooms, prep rooms, and WCs. As part of this upgrade works it is necessary to replace a number of windows to accommodate the required ventilation louvres serving the proposed air supply and extraction systems. While replacing the windows, it provides a great opportunity to improve the U-values and therefore energy efficiency of the school.

Plans are attached in Appendix B.

2 Context

2.1 Site Location



Red line highlighting the location for the window replacement and blue arrow noting the access to the site.

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2.2 Site Photos



Science block south elevation showing windows for replacement.



Science block south elevation showing windows for replacement.

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Science block north elevation (facing car park)



Science block first floor south/east elevation

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Uxbridge High School: Ventilation to Science Block
2 - Context



Science block first floor south/east elevation



Science block west elevation



Science block north elevation

2.3 Site Appraisal

The site area where the windows are being replaced and vent grilles installed is set back within the grounds of the school. There is no impact on parking with the work being undertaken and as only elements of the existing elevations are impacted there is no change to the local landscape or habitats either.

This area is located in flood zone 1, see Appendix A.

The building is not listed nor is it on the grounds of a listed building.

The site is located just outside The Greenway, Uxbridge conservation area, see Appendix A.

3 Design

3.1 Scale

The elevations that are a part of the application span 102 meters predominantly along the north, west and south edges of the science block.

See Appendix B for proposed plans.

3.2 Layout

The new ventilation units will be installed below the suspended ceiling with new bulkheads within the rooms, also below the suspended ceiling. There is no impact on the internal layout of the school with this work as shown on the floor plans supplied.

See Appendix B floor plan of the proposed design for reference.

3.3 Materials

The proposed windows will match the existing uPVC windows in terms of configuration but will have a single louvred vent extending across the top fanlights. There will be insulated white plastisol panels to the top fanlight in which the louvre will be installed. The new windows will be uPVC, white RAL 9901.

See Appendix B elevation drawings of the proposed design for reference.

4 Access

4.1 Site Access

The overall site is accessed from The Greenway as seen on the above satellite site location. This leads directly to the main parking area and has clear access to the proposed site of work.

4.2 Design Access

This application will have no impact on the access to the building.

The existing fire escapes and additional external access has been maintained.

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Appendix A: Flood Risk Map & Conservation Area Map



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Flood map for planning

Your reference
<Unspecified>

Location (easting/northing)
505881/183076

Created
4 Apr 2024 8:42

Your selected location is in flood zone 1, an area with a low probability of flooding.

You will need to do a flood risk assessment if your site is **any of the following:**

- bigger than 1 hectare (ha)
- In an area with critical drainage problems as notified by the Environment Agency
- identified as being at increased flood risk in future by the local authority's strategic flood risk assessment
- at risk from other sources of flooding (such as surface water or reservoirs) and its development would increase the vulnerability of its use (such as constructing an office on an undeveloped site or converting a shop to a dwelling)

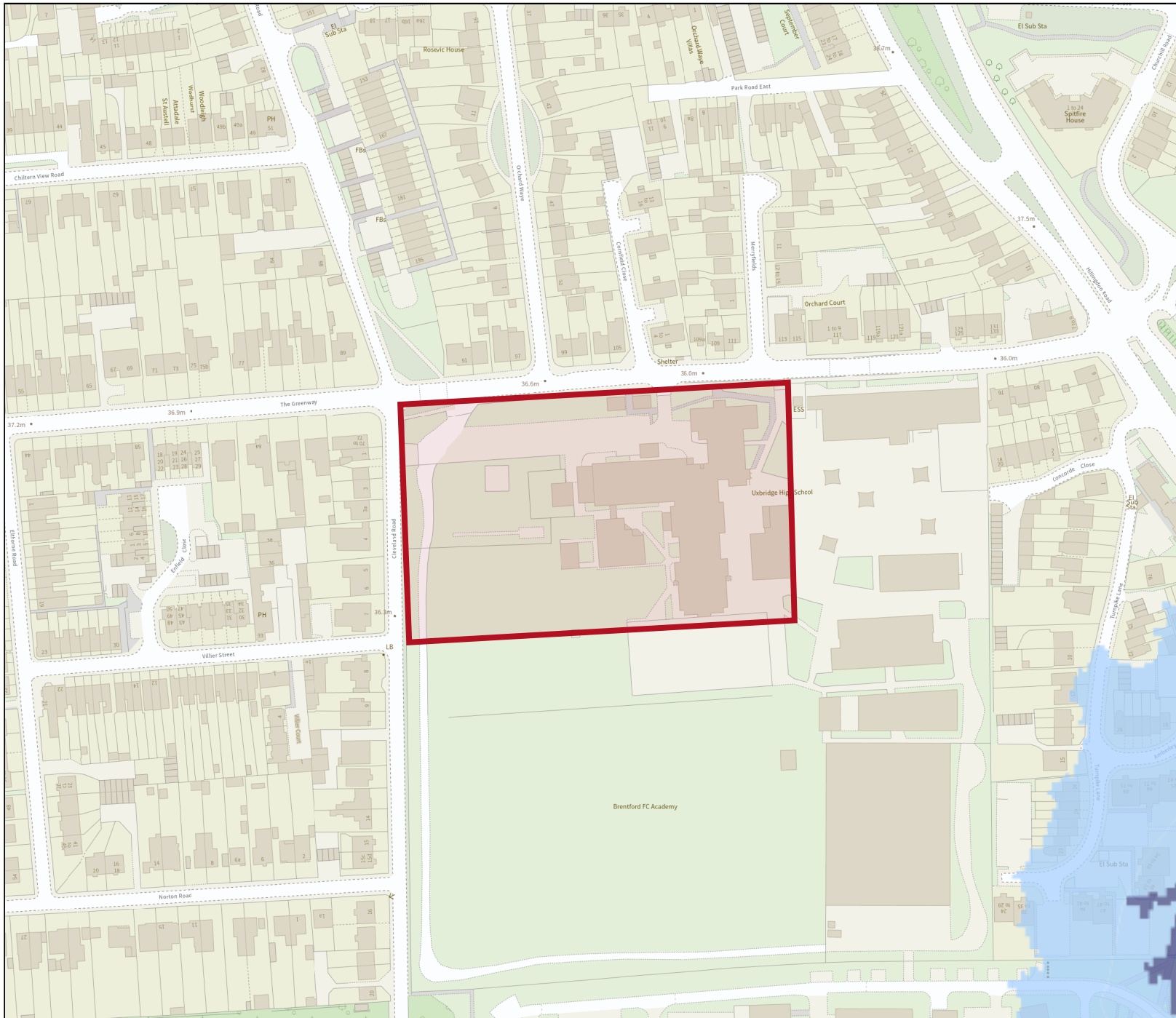
Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence **which** sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2022 OS 100024198. <https://flood-map-for-planning.service.gov.uk/os-terms>







Flood map for planning

Your reference
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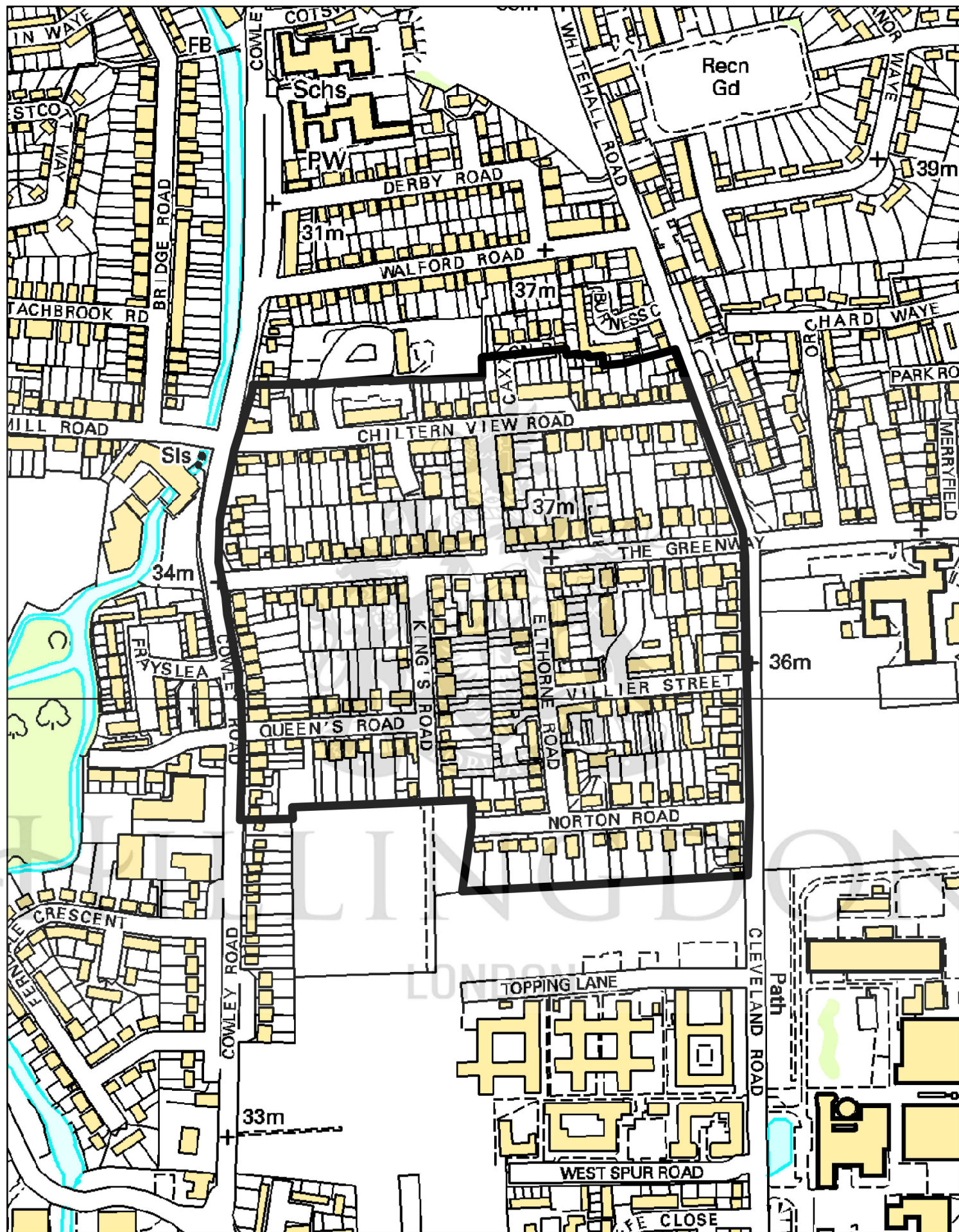
Location (easting/northing)
505881/183076

Scale
1:2500

Created
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-  Selected area
-  Flood zone 3
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Water storage area


0 20 40 60m



The Greenway Conservation Area

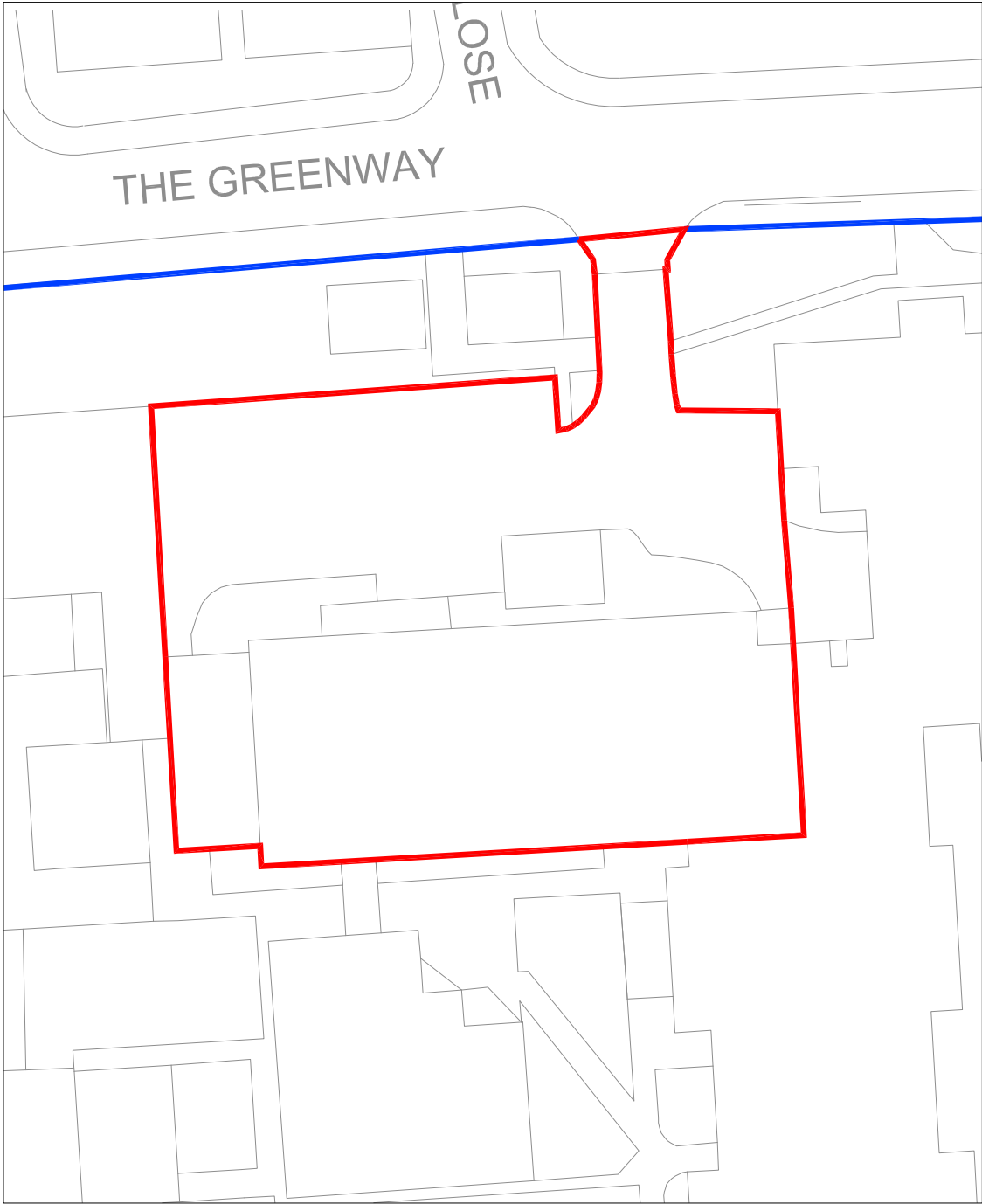
0 100 200 400 Meters

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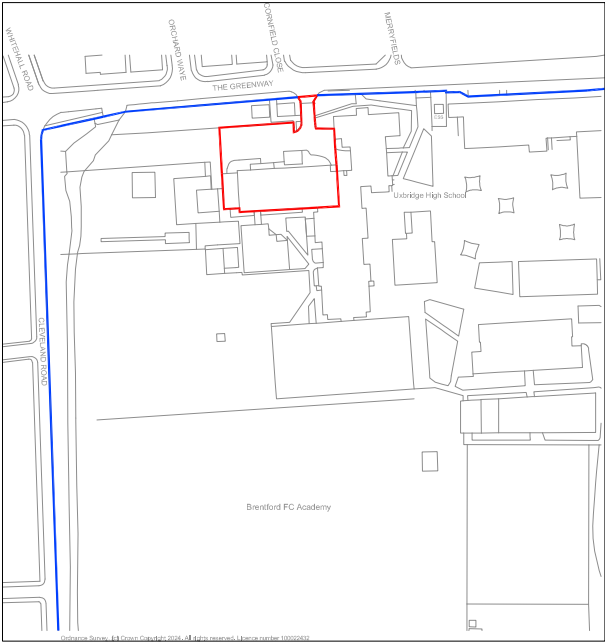


HILLINGDON
LONDON

Appendix B: Plan of Proposal



BLOCK PLAN
Scale 1:200




SITE LOCATION PLAN
Scale 1:1250

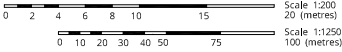
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NOTES:
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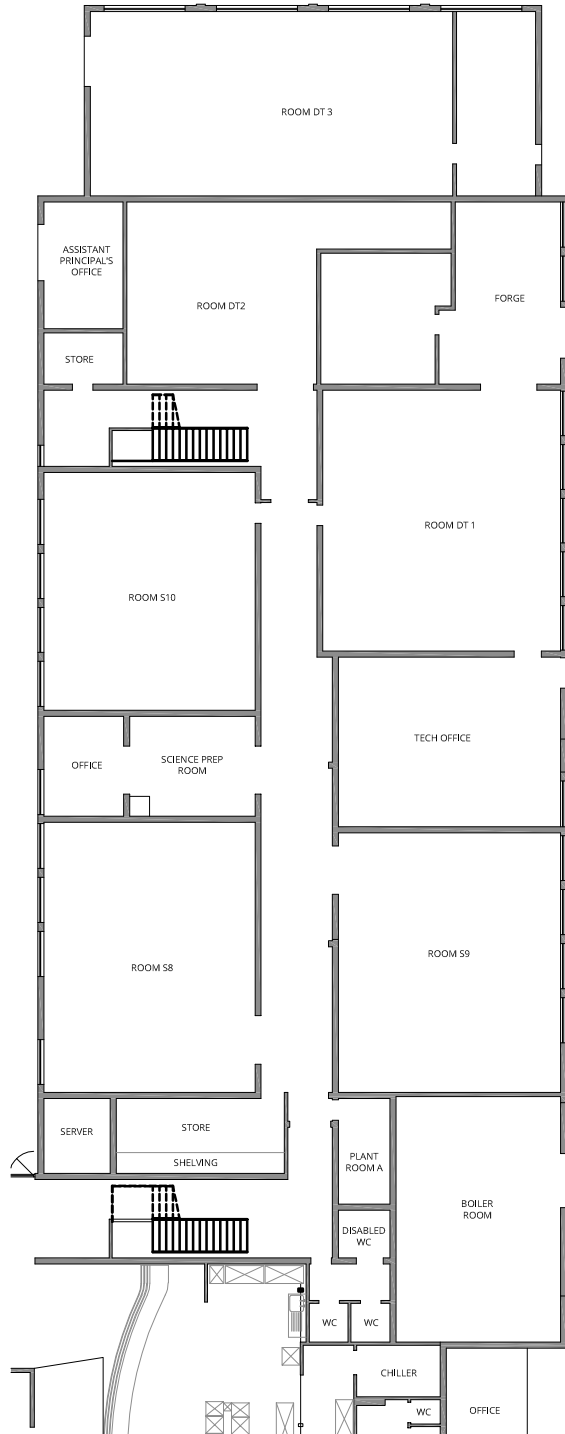
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Project Title: CIF 2024/25 VENTILATION UPGRADE & ASSOCIATED WORKS SCIENCE BLOCK			
Drawing Title: SITE LOCATION AND BLOCK PLAN			
Drawn YK	Checked JW	Scale NTS @ A1	Date APR. 24
ARCHITECTURAL			
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		Issue S1	Revision P01

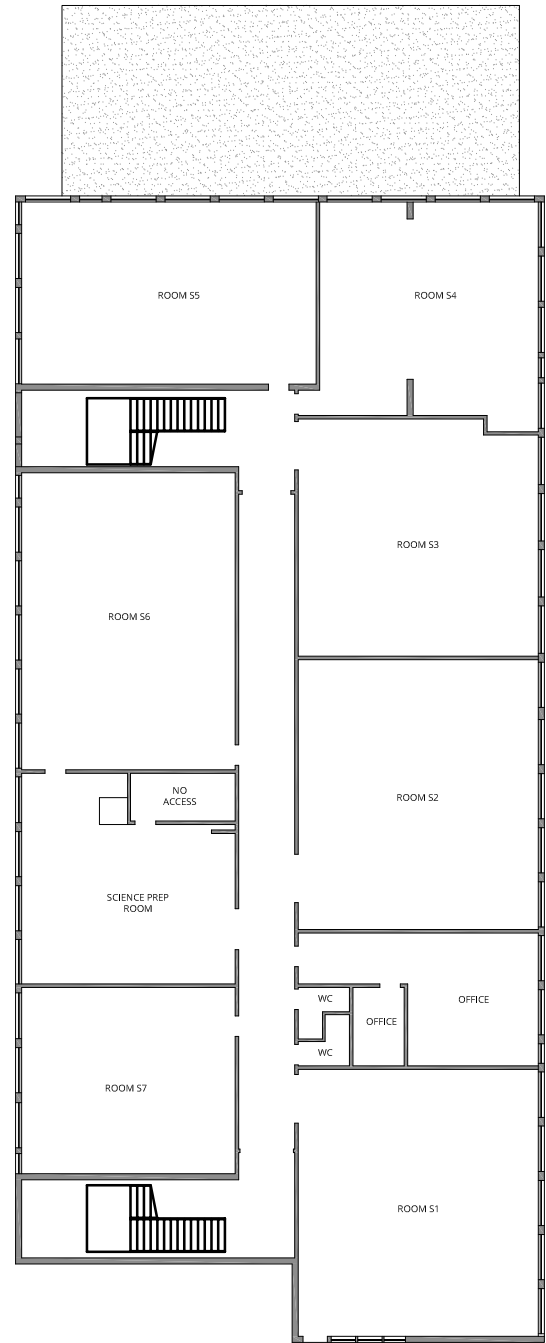


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EXISTING GROUND FLOOR PLAN
Scale 1:100



EXISTING FIRST FLOOR PLAN
Scale 1:100

0 1 2 3 4 5 Scale 1:100 10 (metres)



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		Scale: S1	Revision: P01

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Scale 1:100



Scale 1:100



Scale 1:100



Scale 1:100

Planning Status				
PLANNING				
P01	ISSUED FOR PLANNING			05/04/24 YK



MAJESTY HOUSE, AVENUE WEST
SKYLINE 120, BRAINTREE
ESSEX, CM77 7AA
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W: www.barker-associates.co.uk
E: mail@barker-associates.co.uk

THE BOARD OF GVRNS UXBRIDGE HIGH SCHOOL

Project Title

CIF 2024/25

VENTILATION UPGRADE & ASSOCIATED WORKS

SCIENCE BLOCK

Drawing Title:
**SCIENCE BLOCK
EXISTING ELEVATIONS**

Drawn YK	Checked JW	Scale 1:100 @ A1	Date APR. 24
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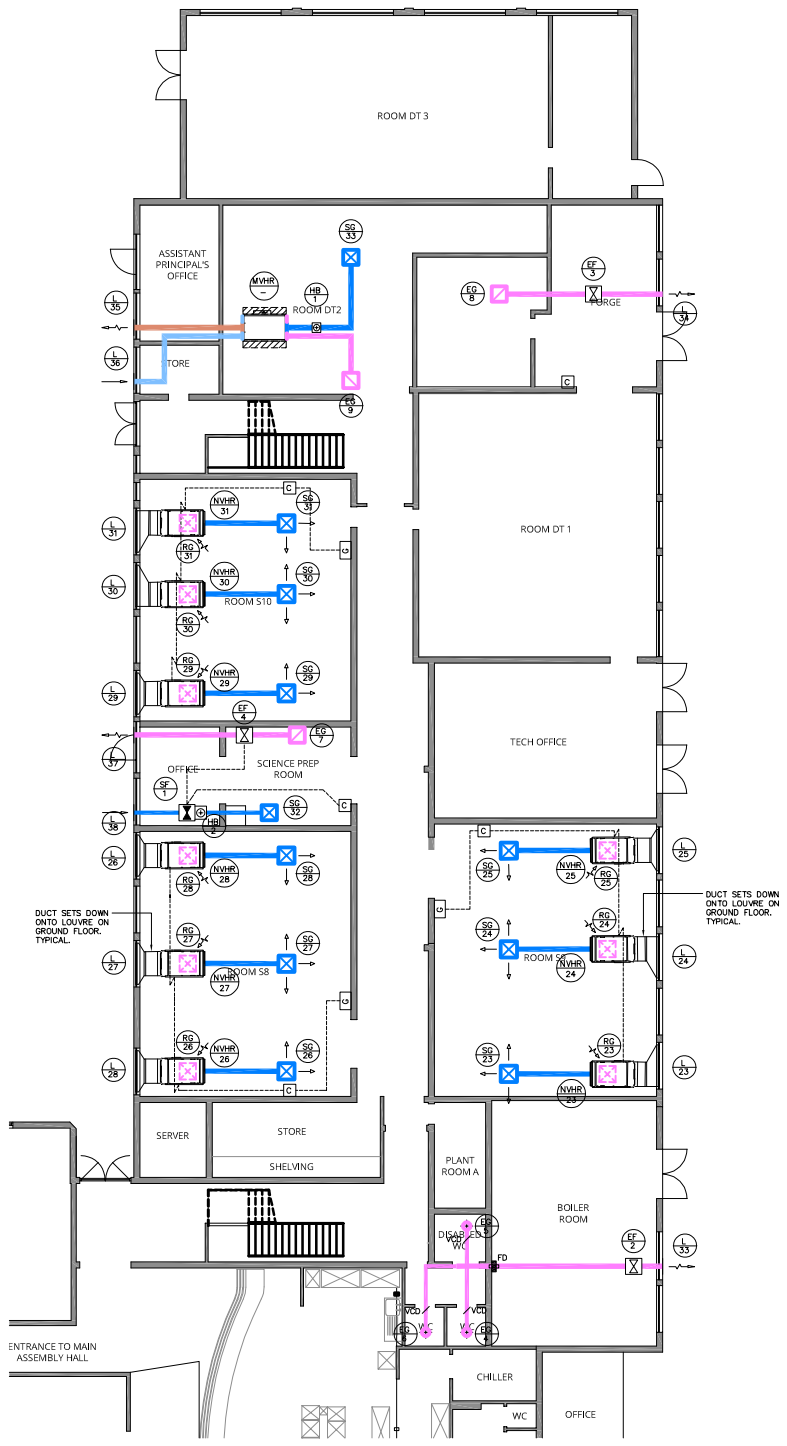


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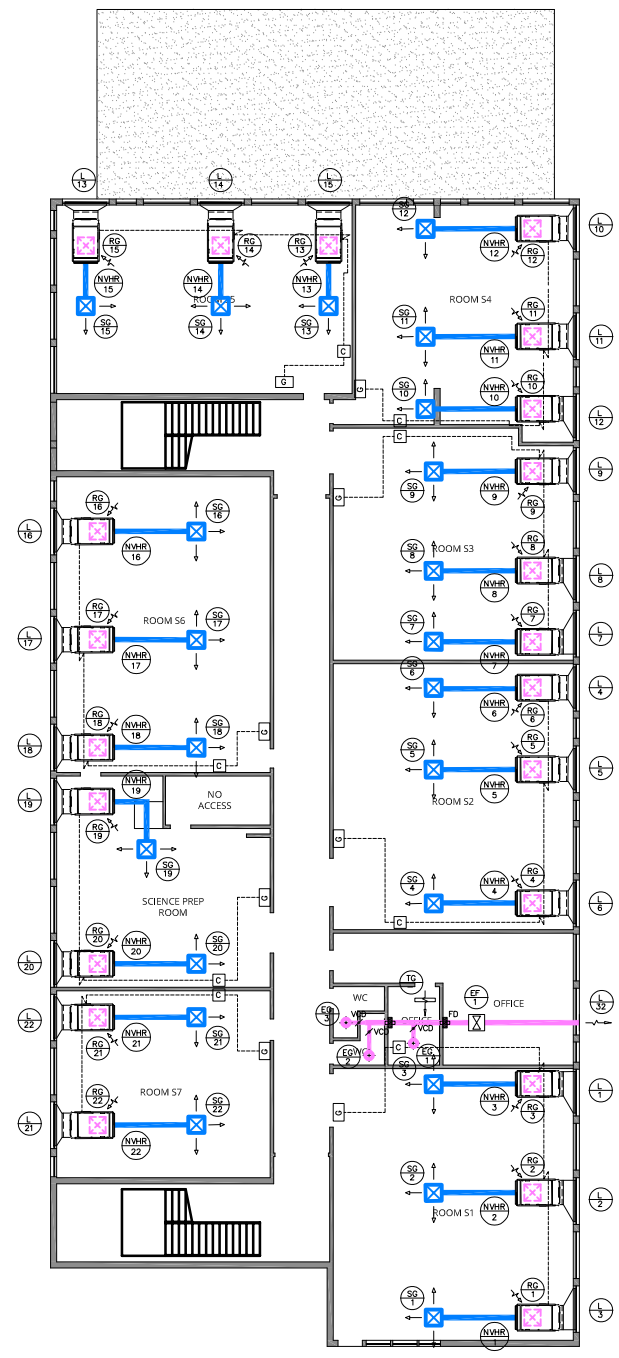
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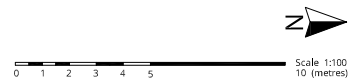
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- EXTRACT AIR DUCT
- FRESH AIR INTAKE AIR DUCT
- EXHAUST AIR DUCT
- SUPPLY FAN REFERENCE
- EXTRACT FAN REFERENCE
- MECHANICAL HEAT RECOVERY UNIT MOUNTED IN ROOF VOID WITH ALL ACCESS FROM BELOW
- EXTRACT GRILLE REFERENCE
- RETURN AIR GRILLE REFERENCE
- SUPPLY GRILLE REFERENCE
- LOUVER REFERENCE
- TRANSFER GRILLE
- WALL MOUNTED ROOM CONTROLLER FOR VENTILATION UNITS
- GAS INTERFACE UNIT
- VOLUME CONTROL DAMPER



PROPOSED GROUND FLOOR PLAN
Scale 1:100



PROPOSED FIRST FLOOR PLAN
Scale 1:100



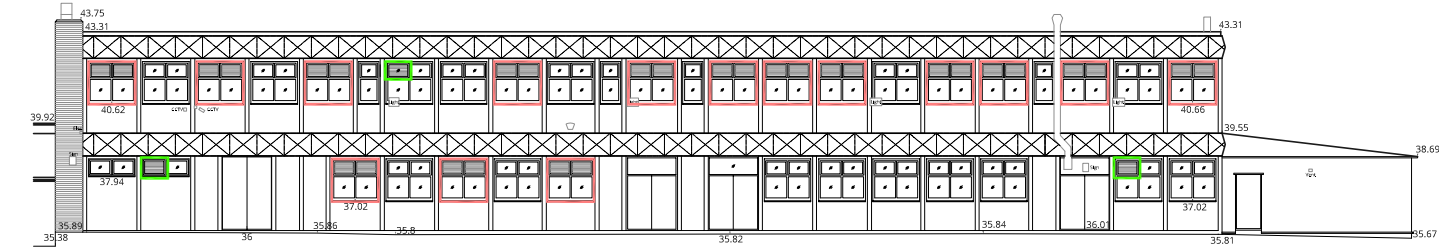
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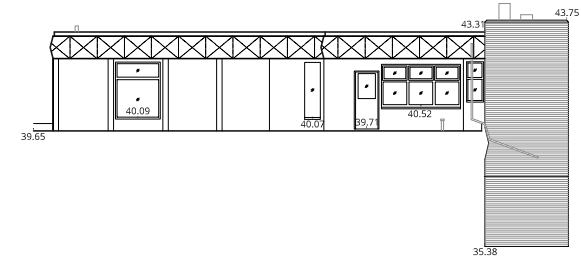
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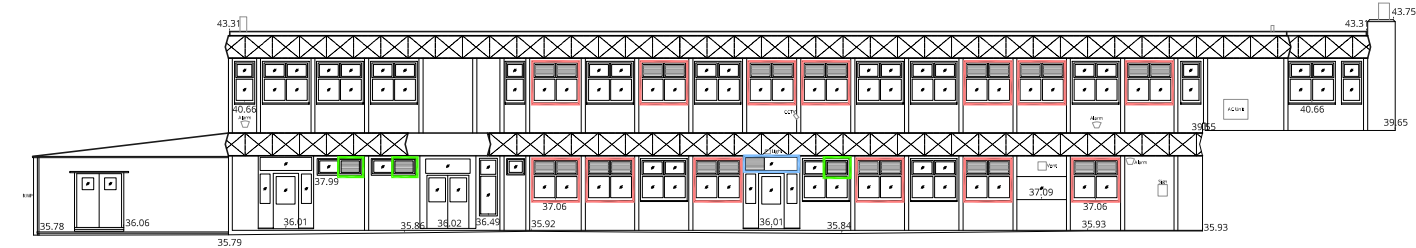
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22 ON FIRST FLOOR
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WITH NEW WHITE INSULATED PLASTISOL PANEL
- GLAZED FANLIGHT TO GROUND FLOOR OFFICE TO
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PLASTISOL PANEL WITH NEW VENT GRILLE



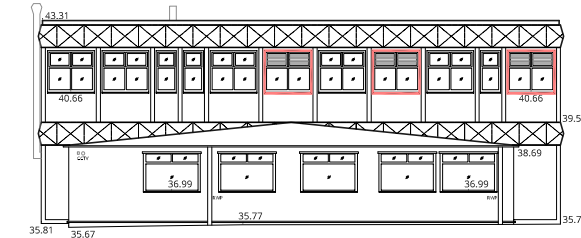
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Scale 1:100



PROPOSED EAST ELEVATION
Scale 1:100




PROPOSED SOUTH ELEVATION
Scale 1:100



PROPOSED WEST ELEVATION
Scale 1:100

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