

Notes.

- 1 This drawing to be read in conjunction with all relevant drawings. Any discrepancies found to be notified to the Supervising Officer immediately.
- 2 Only figured dimensions to be used for constructional purposes.
- 3 All works to be carried with all relevant local authority approvals and to the satisfaction of the building control inspector. existing structure to be opened for inspection if required, all dimensions are to be checked on site prior to commencement of works.
- 4 This drawing is copyright of JND & can not be reproduced without JND's approval THIS IS A PLANNING DRAWING ONLY

Calculations for the Roof volume (hip to gable with a rear dormer)

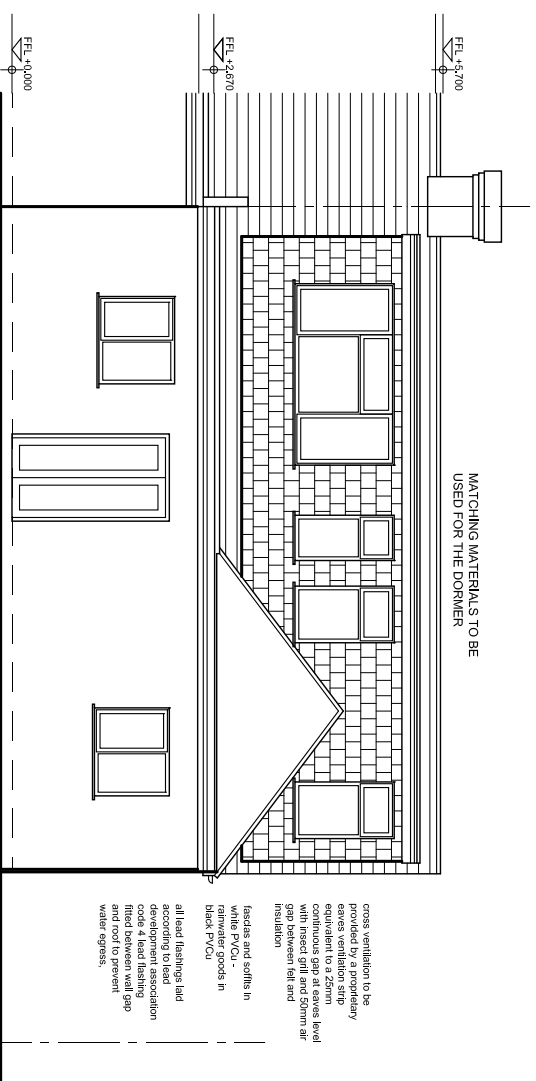
- A: depth of the main roof 7.660m
 - C: height of the main roof 2.990m
 - D: ridge to eaves in plan 3.880m
 - E: projection of the rear dormer 3.126m
 - F: height of the rear dormer 2.319m
 - G: width of the rear dormer 8.265m
- Volume of the triangular prism area of the triangle x its length
 $A \times C/2 \times (DX2)$
 $7.660 \times 2.990/2 \times (3.880 \times 2)$
 $= 88.87 \text{ cu M}$

- Volume of the pyramid base area x 1/3 height
 $A \times (DX2) \times 1/3 \times C$
 $7.660 \times (3.880 \times 2) \times 2.990/3$
 $= 59.25 \text{ cu M}$

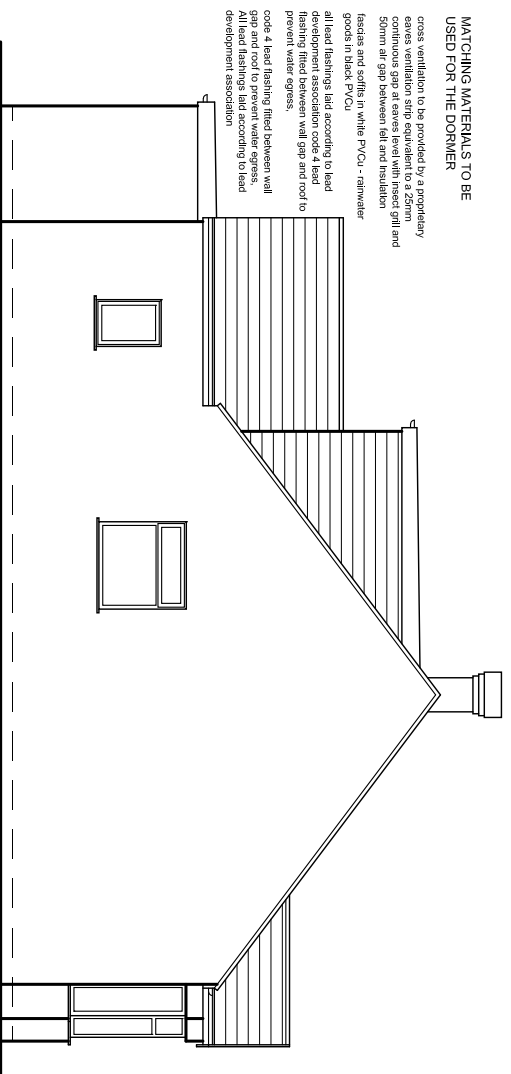
- Volume of the additional segment
 Hip to Gable
 (Prism - Pyramid) / 2
 $(88.87 - 59.25) / 2$
 $= 14.81 \text{ cu M}$

- Volume of the additional rear dormer area of the triangle x its length
 $(E \times F/2 \times G)$
 $(3.126 \times 2.319/2 \times 8.265)$
 $= 29.96 \text{ cu M}$

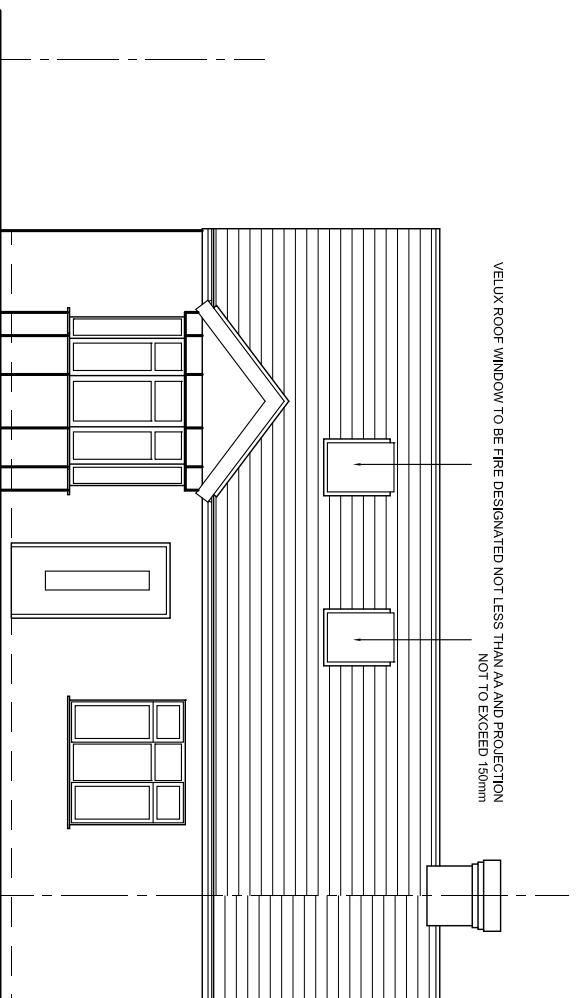
TOTAL volume of development in the roof
 $14.81 + 29.96 \text{ cu M} = 44.77 \text{ cuM}$



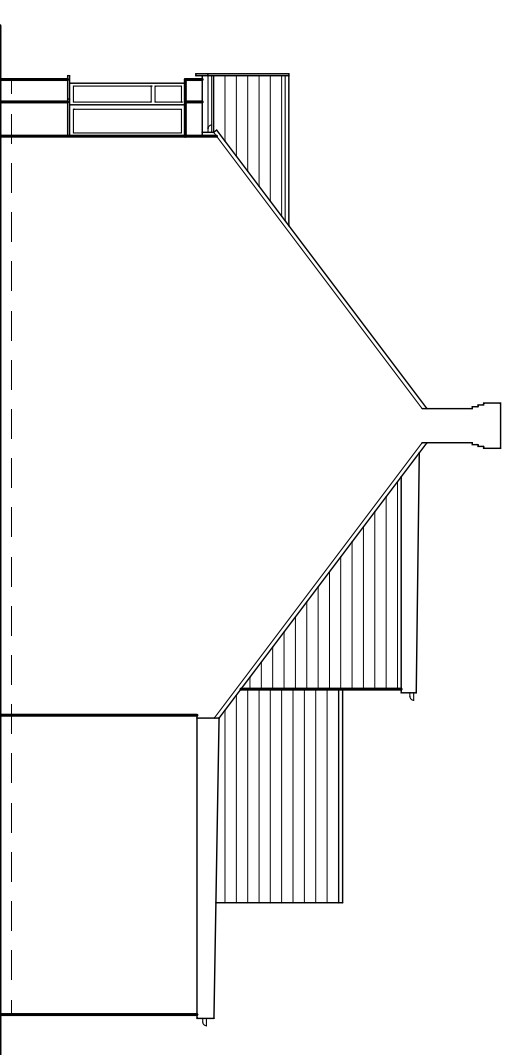
PROPOSED REAR ELEVATION



PROPOSED SIDE ELEVATION



PROPOSED FRONT ELEVATION



PROPOSED OPPOSITE SIDE ELEVATION



REV	AMENDMENT	DATE
A	DRAWING NUMBER CORRECTED	03/02/23

JND² Designs
 DESIGN, ARCHITECTURE, PLANNING AND
 PROJECT MANAGING CONSULTANTS

Client:
 MR. M. WOJCIK

Project:
 LOFT CONVERSION WITH REAR
 DORMER AT
 22 CROWSTONE ROAD, GRAYS,
 RM16 2SR

Title:
 PROPOSED ELEVATIONS

Scale: 1:100 @ A3	Date: DEC 2023
Drawn: JP	Checked: JC
Drw. No JND / 1345 / 13	Rev- A