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VOLUME CALCULATION

Volume of the rear dormer - area of the triangle x its length

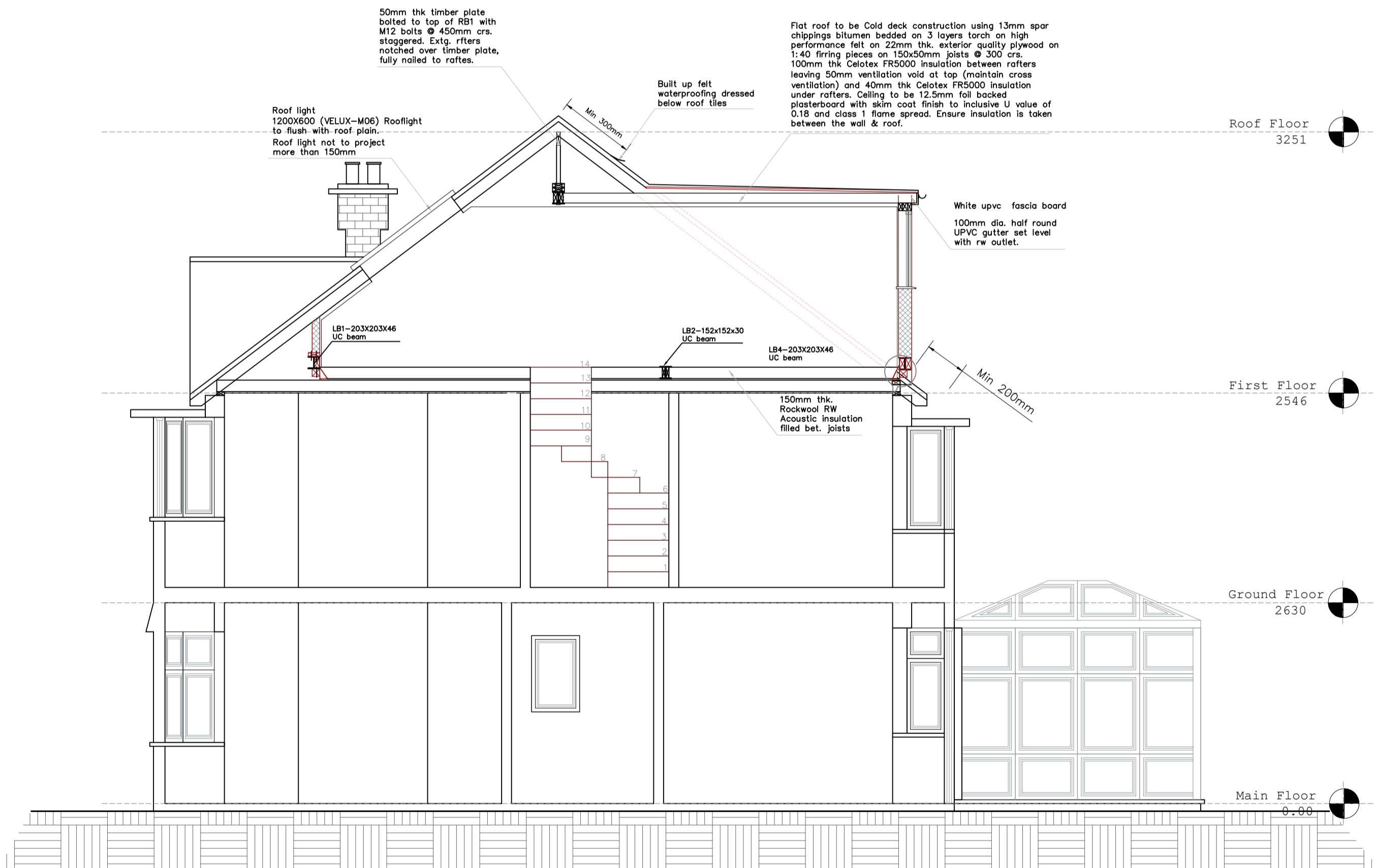
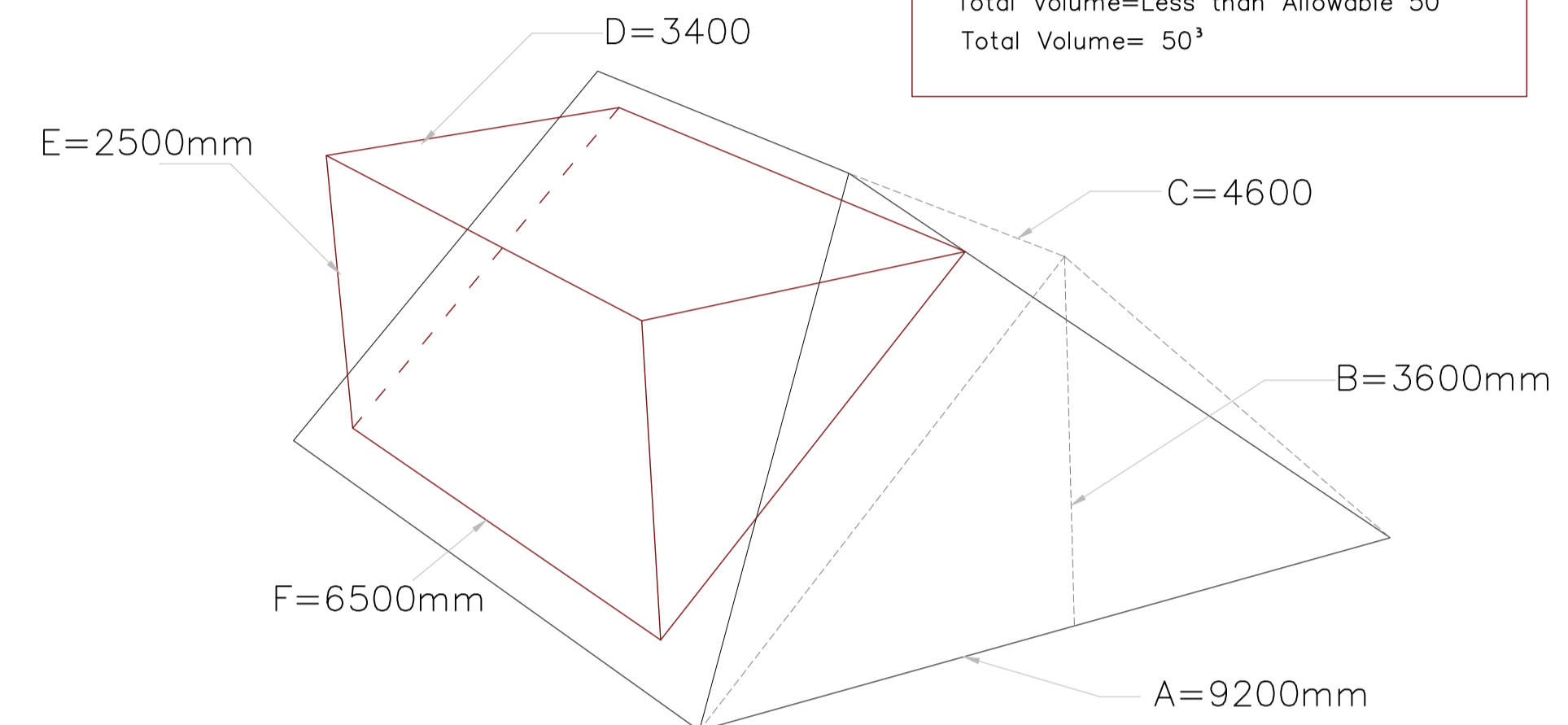
Formula: $V = D \times E / 2 \times F$
 $V = 3.4m \times 2.5m / 2 \times 6.5m = 26m^3$

Volume of hip to gable segment - Pyramid - Base area x 1/3 height

Formula: $V = A \times 1/2B \times 1/3C$
 $V = 9.2m \times 1/2 \times 3.6m \times 1/3 \times 4.6m = 23m^3$

TOTAL VOLUME ADDED TO THE ORIGINAL ROOF
 $26 m^3 + 23 m^3 = 50m^3 < 50.0m^3$ OK.

Total Volume=Less than Allowable 50³
 Total Volume= 50³



PROPOSED SECTION AA
 SCALE 1:50



DRAFT
 NOT FOR CONSTRUCTION

REV.	DESCRIPTION	BY	DATE
CONSTRUCTION ISSUE			

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 PROPOSED SECTION

SCALE AT:	DATE:	DRAWN:	CHECKED:
1:50@A1	03/03/2022	PT	
PROJECT NO:	DRAWING NO:	REVISION:	
SD-105	P0-04	-	