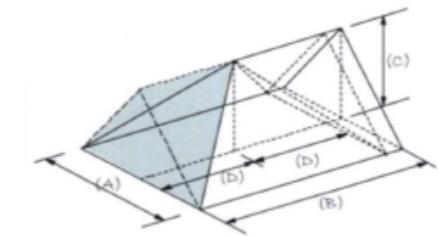
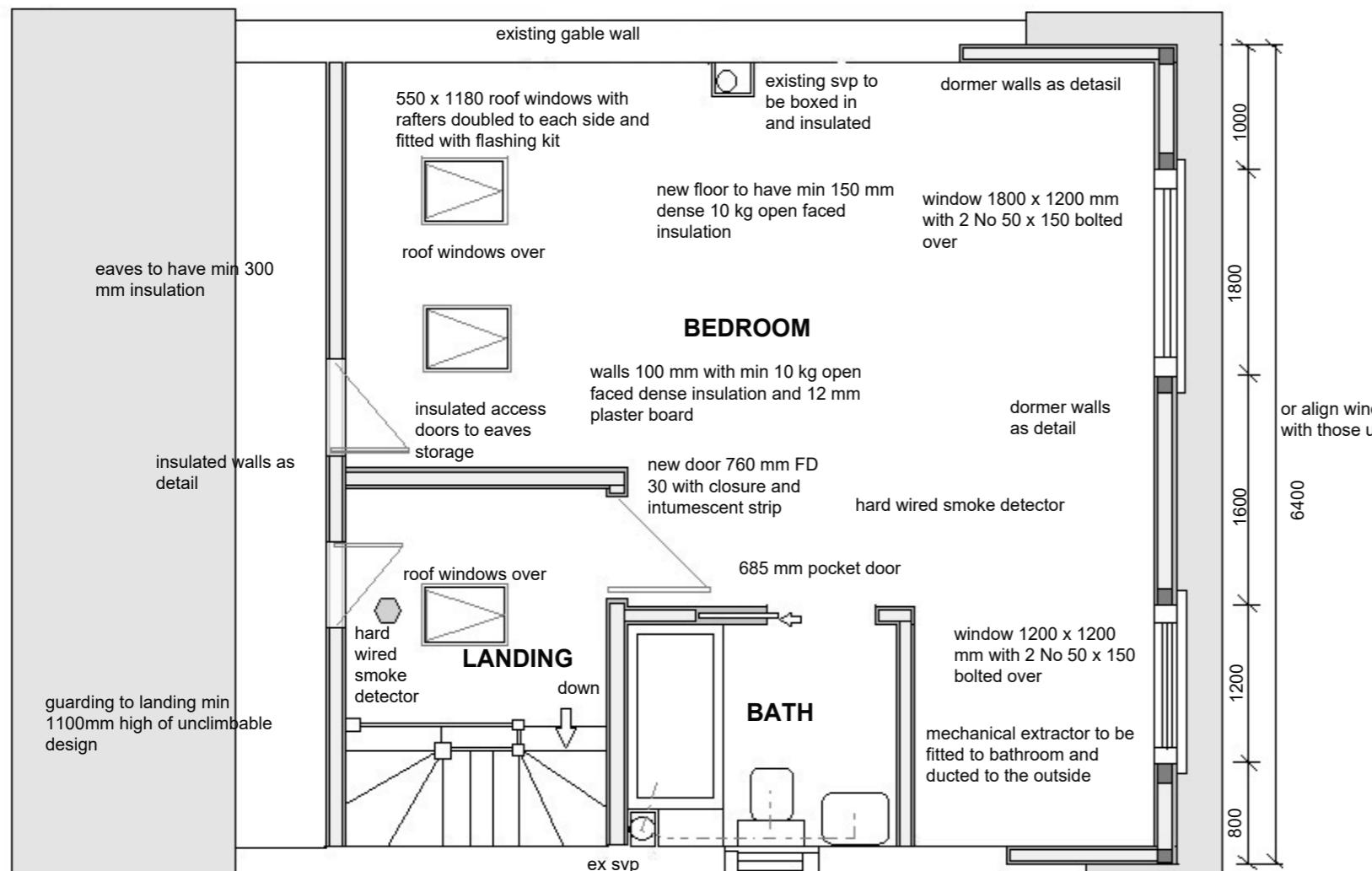


VOLUME CALCULATION FOR DORMER

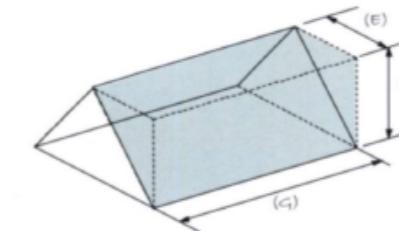


PROPOSED SECOND FLOOR PLAN 1 : 50



Calculation for roof volume (Hip to gable with rear dormer)

	Metres
A Depth of main roof	9
B Width of main roof	6.7
C Height of main roof	3.3
D Ridge to eaves in plan	0
E Projection of rear dormer	4.2
F Height of rear dormer	2.75
G Width of rear dormer	6.4



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Volume of the triangular prism
Area of the triangle x its length
(A x C / 2 x (D x 2))

- cubic metres

Volume of the pyramid
Base area x 1/3 height
(A x (D x 2) x 1/3 C)

- cubic metres

Volume of the additional segment
Hip to Gable
(Prism - Pyramid) / 2

- cubic metres

Volume of the additional rear dormer
area of the triangle x its length
(E x F / 2 x G)

36.96 cubic metres

TOTAL volume of development in the roof

36.96 cubic metres

0 1 2 3 4 5m
1 : 100 @ A3

0 1 2m
1 : 50 @ A3

SBS

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Architectural & Building Consultants

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Proposal
PROPOSED LOFT CONVERSION WITH REAR DORMER

Scale 1:100 1:50
Paper Size A3