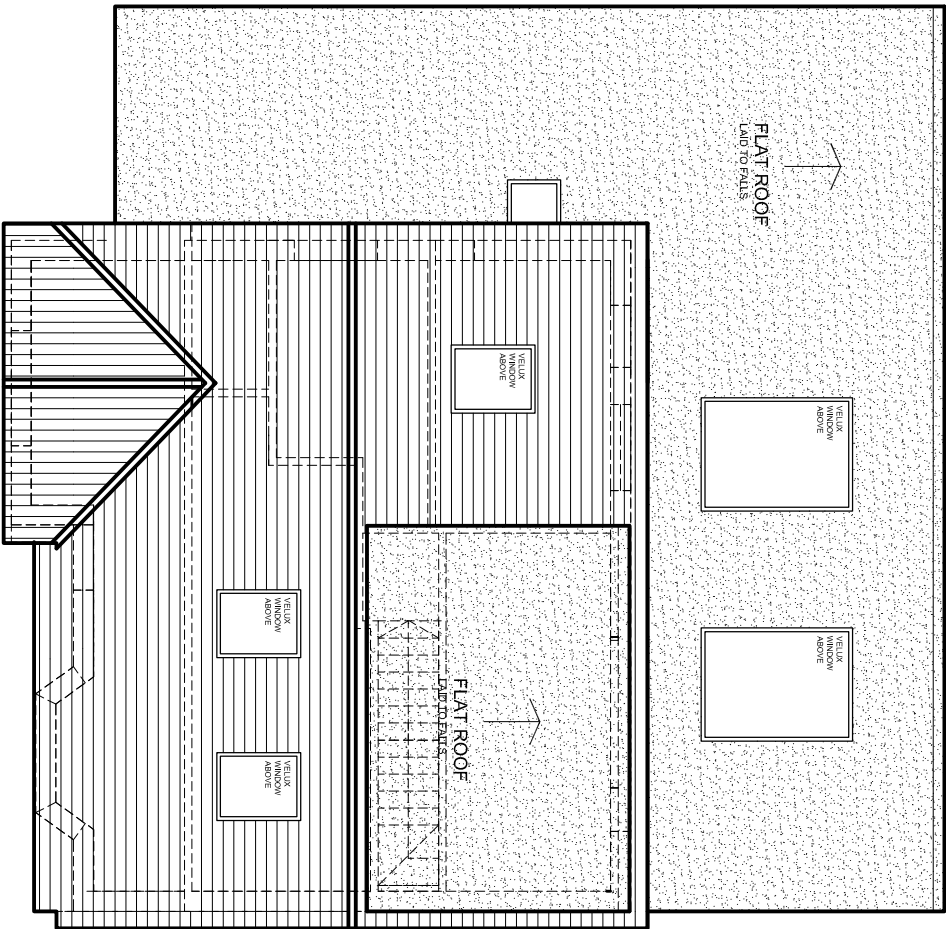


EXISTING GROUND FLOOR PLAN



EXISTING ROOF PLAN

Permitted development calculations of volume of hip to gable  
Formula for hip to gable =  $\frac{1}{3}$  (base x height)  
Value of base - Area of base =  $\frac{1}{2}$  (length x depth)

Length - measure on side elevation from eaves to eaves.  
Depth - measure on side elevation from ridge of new gable to where it meets the bottom of the roof (i.e. where the original side of roof had its eaves)

Put values of base in Formula for hip to gable

Formula for hip to gable =  $\frac{1}{3}$  (base x height)

Height - measure on existing front elevation distance from the existing ridge (at top of hip) to end of the ridge of the proposed gable.

Formula for hip to gable =  $2\frac{1}{6}$  (depthxbase x height))  
=  $2\left(\frac{1}{6}\right)(4.08 \times 7.36 \times 2.84)$   
= 28.42  
Volume for rear dormer =  $\frac{1}{2}$  (length x height x depth)  
=  $\frac{1}{2}(5.1 \times 2.47 \times 3.2)$   
= 20.15  
Volume of hip to gable and rear dormer = 28.42 + 20.15 = 48.5 cu. m.

Project

Site Address

Drawing Title

Date

Sheet Size

Scale

Revision

Sheet No

04

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