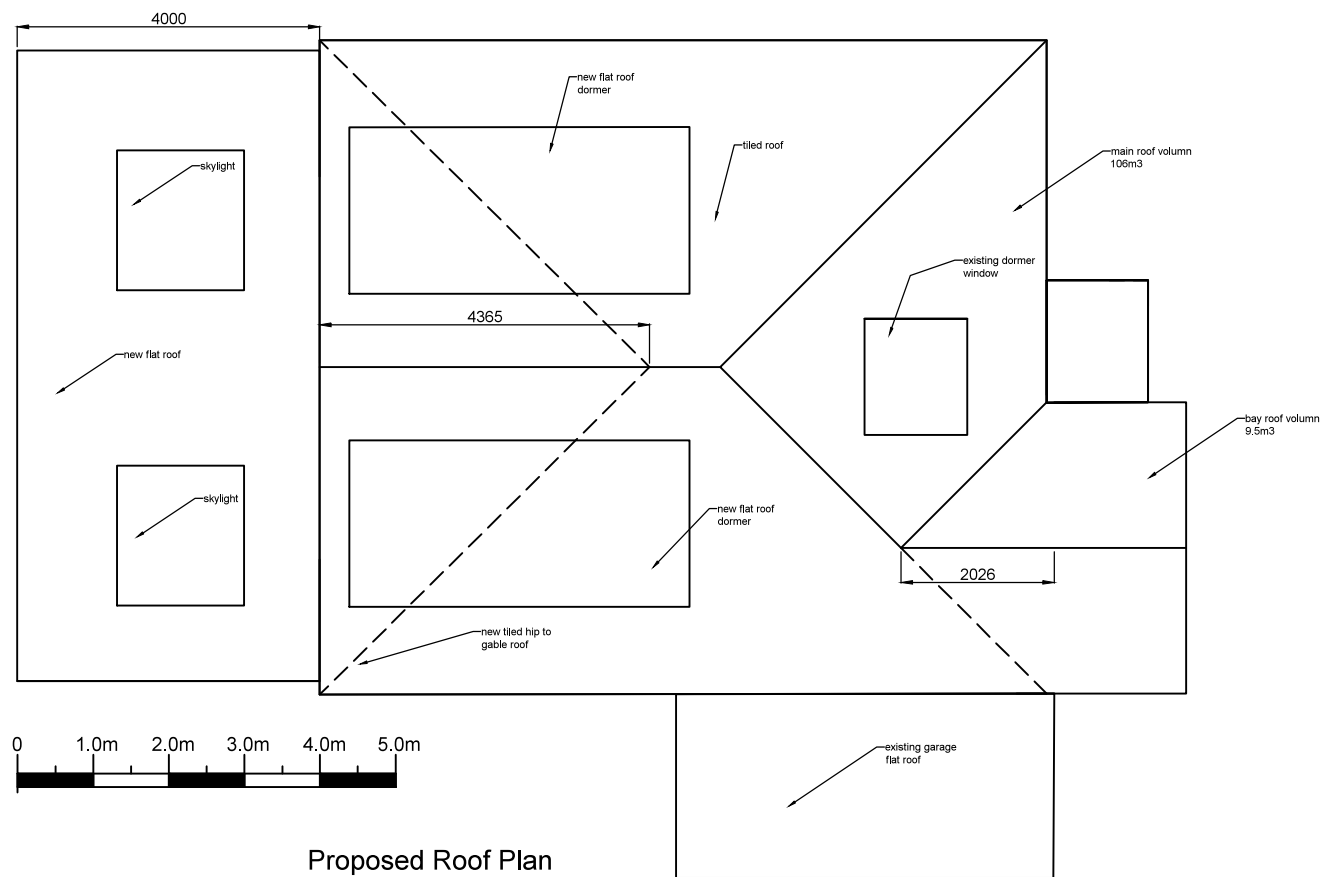




Permitted development calculation of volume of hip to gable.

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

Value of base - Area of base + $\frac{1}{2}(\text{Length} \times \text{Depth})$

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 where the original side of roof (i.e. had its eaves)

Put value of base in formula for hip to gable

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

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

Area of base = $\frac{1}{2}(8.61\text{m} \times 4.365\text{m})$
= $\frac{1}{2}(37.58\text{m})$
base = 18.79 meters square

Formula for hip to gable + $\frac{1}{3}(18.79\text{m} \times 3.44)$
+ $\frac{1}{3}(64.64)$
= 21.55 cubic meters

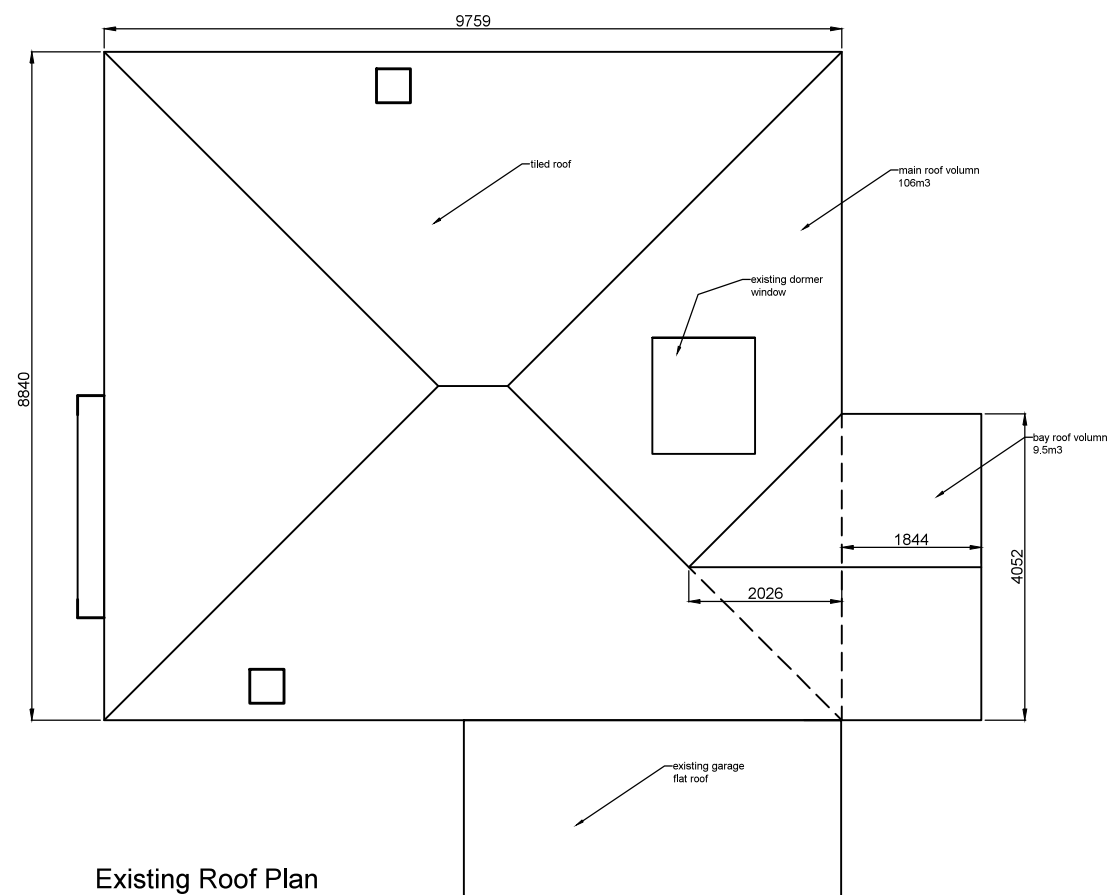
Volume of hip to gable = (21.55 cubic meters)

Volume of side dormers = $\frac{1}{2}(\text{length} \times \text{height} \times \text{depth})$
= cubic meters

$\frac{1}{2}(4.5\text{m} \times 2.43 \times 1.97\text{m})$
= 10.77 cubic meters x 2 dormers = 21.54m³

Volume of hip to gable and rear dormer
= (43.09 Cubic meters)

Therefore within max 50 cubic meters Permitted development



Rev;

REV.	NOTES	DATE	BY
1	1-100 @ A3	5936-19-104	
2	1-100 @ A3	5936-19-104	
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