

Volume of triangular Prism
(Historic Extension Circa 2002)

$$(A \times C / 2) \times (D \times 2) \\ = (8.7 \times 3.2 / 2) \times (4.75 \times 2) \\ = 13.92 \times 9.5 = 132.24\text{m}^3$$

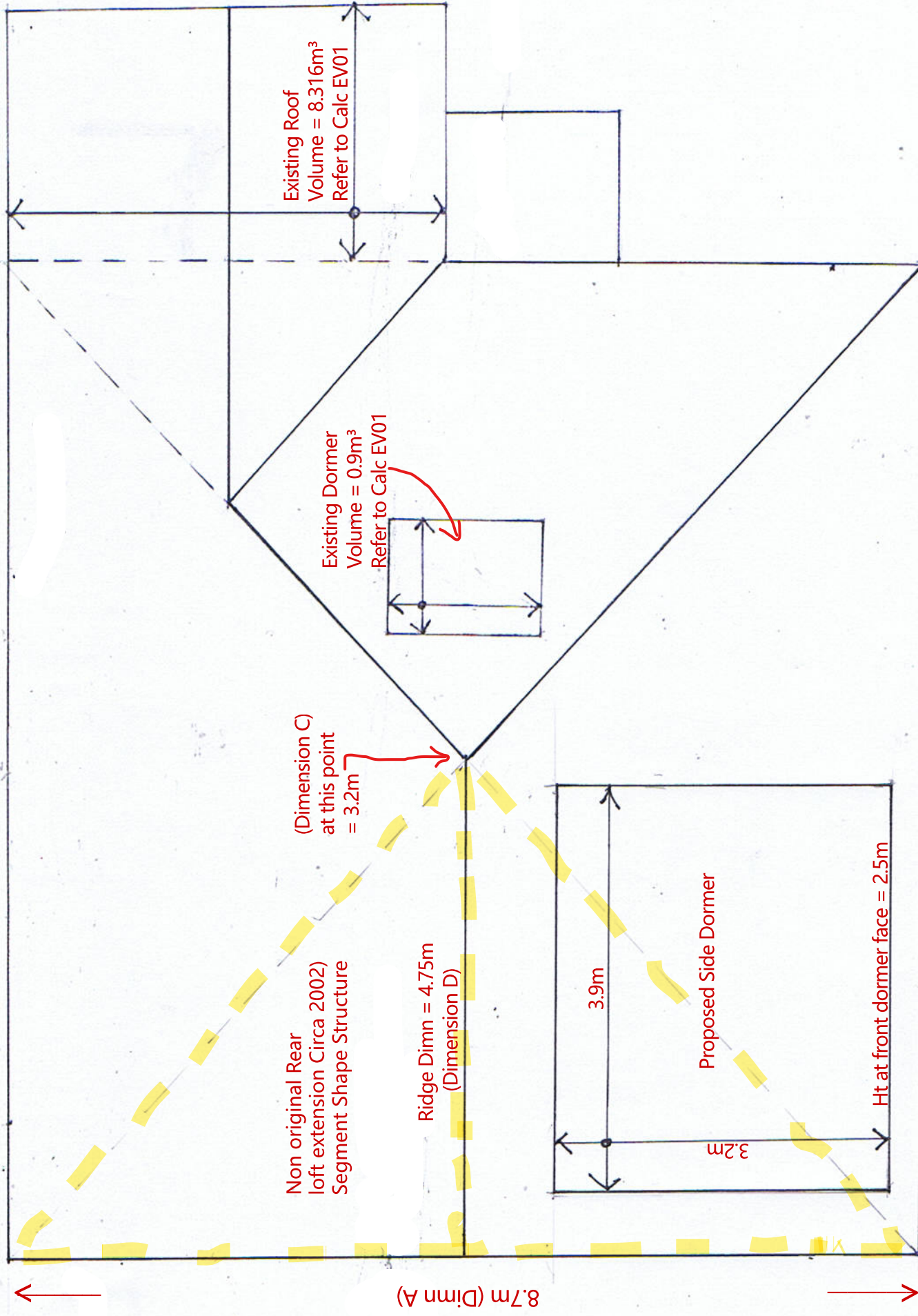
Volume of Pyramid base

$$8.7 \times (4.75 \times 2) \times (3.2 / 3) \\ 82.65 \times 1.0667 = 88.16$$

$$\text{Volume of Segment} \\ = \text{Prism} - \text{Pyramid} / 2 \\ = (132.24 - 88.16) / 2 = 22.04\text{m}^3$$

$$\text{Proposed Side Dormer} \\ 3.2 \times (2.5/2) \times 3.9 = 15.6\text{m}^3$$

$$\text{Total non original volume} \\ = 22.04 + 15.6 = 37.64^3$$



31 Hillside Road, Northwood, HA6 1PY
Proposed Addit Roof Volume Calculation
(Scale 1:20 @ A3)

Calculation 226166 / FAL / PV01

Fidler Associates Ltd
01923 840482