

# PROPOSED DRIVE ACCESS 3 ARNHILL RD GRETTON NN17 3DN

Visibility Splay Requirements based upon RDA speed survey

① East bound Left Hand side -ve gradient  $SSD = vt + \frac{v^2}{2(d + 0.1a)}$   
85% speed 15.9 mph 7.1 m/s = v

$$\text{Safe Stopping Dist} = vt + \frac{v^2}{2(d + 0.1a)}$$

$$SSD = 7.1 \times 2 + \frac{7.1 \times 2}{2(3.679 + 0.1 \times 0.46)}$$

$$SSD = 14.2 + \frac{14.2}{7.266} = 16.2 \text{ m}$$

plus boumet length 2.4m SSD = 18.5 m required

From table 10.1 MfS2

All vehicle reaction time  $t = 2 \text{ s}$

Deceleration rate  $d = 0.375g$   $g = 9.81$

Gradient factor  $a = \pm 0.46$

② West bound Right Hand side +ve gradient

85% speed  $v = 16.8 \text{ mph} = 7.5 \text{ m/s}$

$$SSD = 7.5 \times 2 + \frac{7.5 \times 2}{2(3.679 + 0.1 \times 0.46)}$$

$$SSD = 15 + \frac{15}{7.45} = 17 \text{ m}$$

plus boumet length 2.4m SSD = 19.4 m required

*PROPOSED ACCESS VISIBILITY SPLAYS*  
**3 ARNHILL ROAD GRETTON NN17 3DW**

