

BASIC FREEWAY SEGMENT

$$\boxed{\text{FFS} = \text{BFFS} - f_{\text{LW}} - f_{\text{LL}} - f_{\text{N}} - f_{\text{ID}}} = 60.6 \text{ mph}$$

70 urban
 1.9 $11'$ lanes
 0.8 $4'$ $N = 3$
 3.0 3.7 1.25 interchanges/mile
 0 for rural freeway

$$V_P = \frac{\text{pc/h/ln-pcphpl}}{\text{PHF} \times N \times f_{\text{HV}} \times f_P} = \frac{V}{(0.85)(3)(0.91)(1.0)} = \frac{3200}{(0.85)(3)(0.91)(1.0)} = 1379$$

$$\text{Level} = \frac{1}{1 + P_T(E_T - 1) + P_R(E_R - 1)} = \frac{1}{1 + 0.2(1.5 - 1) + 0.01(1.2 - 1)} = 0.91$$

FFS = 60.6
 V_P = q = 1379 pcphpl
 EXHIBIT 23-3 → LOS C
 D = 23 pc/mi/ln

EXHIBIT 23-3 OR
 S = 60.6
 $D = \frac{V_P}{S} = \frac{1379}{60.6} = 22.8 \text{ pc/mi/ln}$ → LOS C
 Table 3.12