



Design Speed (mph)	D_E (ft) ^① (Minimum)	Lane Drop ^③ Taper
30	200	20:1
40	330	25:1
45	480	45:1
50	710	50:1
55	970	60:1
60	1450	65:1

Notes:

- ① D_E is that distance required by the vehicle to accelerate from a stop to 6 mph below the average running speed.
- ② If driveways are present, D_E may need to be increased.
- ③ Sharper taper rates may be used in urban areas; however, the taper lengths should be at least 300 ft.
- ④ These criteria are for preliminary design purposes. The final design will be determined on a case-by-case basis.

EXTENSION OF ADDITIONAL THROUGH LANES

Figure 46-7A