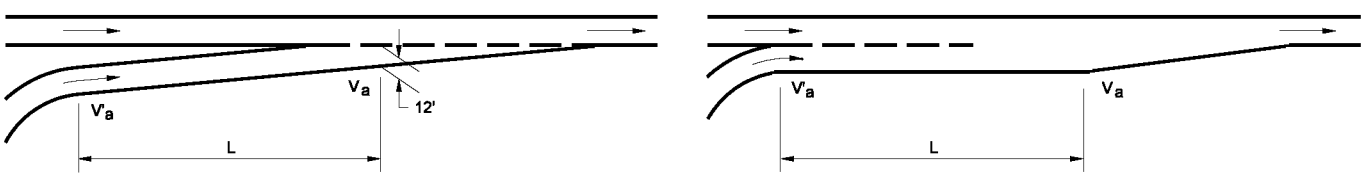
| Highway Design Speed (mph) | Speed Reached, V a (mph) | Acceleration Length, L (ft) for Entrance Curve Design Speed (mph) and Initial Speed, V'a (mph) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Stop | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| | | 0 | 14 | 18 | 22 | 26 | 30 | 36 | 40 | 44 |
| 30 | 23 | 180 | 140 | -- | -- | -- | -- | -- | -- | -- |
| 35 | 27 | 280 | 220 | 160 | -- | -- | -- | -- | -- | -- |
| 40 | 31 | 360 | 300 | 270 | 210 | 120 | -- | -- | -- | -- |
| 45 | 35 | 560 | 490 | 440 | 380 | 280 | 160 | -- | -- | -- |
| 50 | 39 | 720 | 660 | 610 | 550 | 450 | 350 | 130 | -- | -- |
| 55 | 43 | 960 | 900 | 810 | 780 | 670 | 550 | 320 | 150 | -- |
| 60 | 47 | 1200 | 1140 | 1100 | 1020 | 910 | 800 | 550 | 420 | 180 |
| 65 | 50 | 1410 | 1350 | 1310 | 1220 | 1120 | 1000 | 770 | 600 | 370 |
| 70 | 53 | 1620 | 1560 | 1520 | 1420 | 1350 | 1230 | 1000 | 820 | 580 |




TAPER TYPE

PARALLEL TYPE

*Note: Uniform 50:1 to 70:1 tapers are recommended where lengths of acceleration lane exceed 1300 ft.*

Minimum Acceleration Lengths for Entrance Terminals
With Flat Grades of 2 Percent or Less

Figure 48-4D