|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Design Element** | | | **Manual**  **Section** | **Design Criteria** |
| Design  **Controls** | Design Forecast Year | | | 9.6.2 | 20 years |
| \*Design Speed | | | 9.5.2 | 35 to 60 mph |
| Access Control | | | 9.8 | Limited/Controlled by Regulation |
| Level of Service | | | 9.6.4 | Desirable: C |
| Cross Section  **Elements** | \*Travel Lane Width | | | 13.2.3 | 12′ |
| \*Right Shoulder Width | Total Width | | 13.2.4 | 10′ or Curb and Gutter |
| Paved Width | | 2′ or Curb and Gutter |
| \*Left Shoulder Width | Total Width | | 10′ or Curb and Gutter |
| Paved Width | | 2′ or Curb and Gutter |
| Auxiliary Lanes | Lane Width | | 13.2.5 | 12′ |
| Shoulder Width | Total Width | Des.: 10′ Min.:4′ or Curb and Gutter |
| Paved | 2′ or Curb and Gutter |
| Parking Lane Width | | | 21.2.8 | 12′ **(1)** |
| Cross Slope | \*Travel Lane | | 13.2.3.3 | 2.08% |
| Auxiliary Lane | | 13.2.5 | 2.08% **(2)** |
| \*Shoulder | Paved | 13.2.4.3 | 2.08% **(3)** |
| Unpaved | 8.33% |
| Bicycle | Lane Width | | 13.2.3 | 4′ **(4)** |
| Shared Roadway Width | | 14′ Outside Travel Lane |
| Curb and Gutter | Type **(5)** | | 21.2.9 | Vertical or Sloping |
| Width | | 2′ |
| Sidewalk Width |  | | 21.2.10 | 5′ |
| Median Width | Depressed | | 13.4.2.3 | 36′ |
| TWLTL | | 21.2.7 | 15′ |
| Flush | | 13.4.2.1 | Des: 12′ Min: 4′ |
| **Roadway Elements** | Side Slopes | Cut Section | Foreslope | 13.3 | 6H:1V |
| Ditch Type | V-Ditch |
| Back Slope | 4H:1V to 2H:1V **(6)** |
| Fill Section | 0′ – 5′ | 6H:1V |
| 5′ – 10′ | 4H:1V |
| > 10′ | 2H:1V |
| Median Slopes | Depressed | | 13.4.2 | 6H:1V |
| Flush/TWLTL | | 21.2.7 | 2.08% |
| Clear Zone | | | 14.3 | **(7)** |

\*Controlling design criteria (see Section 9.2).

Design Criteria for Suburban/Urban Arterials (New Construction/Reconstruction)

Figure 21.3A