| Design Element | | | | **Manual Section** | **Design Criteria** | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Group 1** | **Group 2** | **Group 3** | **Group 4** |
| Design  **Controls** | Design Forecast Year **(1)** | | | 9.6.2 | 20 years | 20 years | 20 years | 20 years |
| \*Design Speed | | | 9.5.2 | **(2a)** | 20 – 50 mph | 30 – 50 mph | 35 - 60 mph |
| Access Control | | | 9.8 | Controlled by Regulation | Controlled by Regulation | Controlled by Regulation | Controlled by Regulation |
| Level of Service | | | 9.6.4 | N/A | N/A | N/A | N/A |
| Cross Section  **Elements** | \*Travel Lane Width | | | 13.2.3 | Min: 9′ | Des.: 10′ Min.: 9′ | Des.: 11′ Min.: 10′ | 11′ |
| \*Shoulder Width **(3)** | | | 13.2.4 | 4′ or C/G | Des.: 6′ Min.: 4′  or C/G | Des.: 6′ Min.: 4′  or C/G | 6′ or C/G |
| Auxiliary Lanes | Lane Width | | 13.2.5 | N/A | N/A | N/A | Min. 11′ **(4)** |
| Shoulder Width | | N/A | N/A | N/A | 6′ or C/G |
| Cross Slope | \*Travel Lane | | 13.2.3.3 | 2.08% | 2.08% | 2.08% | 2.08% |
| Auxiliary Lane | | 13.2.5 | N/A | N/A | N/A | 2.08% |
| \*Shoulder | | 13.2.4.3 | 8.33% | 8.33% | 8.33% | 8.33% |
| Bicycle | Lane Width **(5)** | | 13.2.3 | 4′ | 4′ | 4′ | 4′ |
| Shared Roadway Width | | N/A | N/A | N/A | 14′ Outside Travel Lane |
| Curb & Gutter (Urban) | Type | | 21.2.9 | Vertical or Sloping | | | |
| Width | | 2′ | | | |
| Sidewalk Width | | | 21.2.10 | 5′ | 5′ | 5′ | 5′ |
| Median Width | TWLTL | | 21.2.6 | N/A | N/A | N/A | 15′ |
| **Roadway Elements** | Side Slopes | Cut Section | Foreslope | 13.3.1 | 6H:1V to 4H:1V | 6H:1V to 4H:1V | 6H:1V to 4H:1V | 6H:1V to 4H:1V |
| Ditch Type | V Ditch | V Ditch | V Ditch | V Ditch |
| Back Slope | 2H:1V | 2H:1V | 2H:1V | 2H:1V |
| Fill Section | | 6H:1V to 2H:1V | 6H:1V to 2H:1V | 6H:1V to 2H:1V | 6H:1V to 2H:1V |
| Median Slopes | TWLTL | | 21.2.7 | N/A | N/A | N/A | 2.08% |
| Clear Zone | | | 14.3 | **(6a)** | **(6a)** | **(6a)** | **(6b)** |

\*Controlling design criteria (see Section 9.2).

Design Criteria for “Secondary” and State “C” Roads (New Construction/Reconstruction)

Figure 22.3A (SCHDM 2003)