

Article 5. Minimum Design Standards
(Amended by Ord. 02-975)

Sec. 9-4.501. Minimum Road Design Standards.

- (a) For purposes of this section, these terms are designed as follows:
 - (1) "Surfaced" means pavement unless otherwise specified.
 - (2) "Shoulder" means rocked (class 2 aggregate base) shoulder unless otherwise specified.
 - (3) "Total shoulder width" means the sum of the widths of the shoulders on both sides of the road.
 - (4) "Clearing limit" means clearing limit measured from the outer limit of construction; or in flat land from the bottom of the ditch.
- (b) Minimum road design standards for each class of public and private road defined in Article 4 of this chapter shall be as follows:

CLASS 1: Projected Traffic + 7,500 ADT

Surfaced traveled way 48 ft. (4 lanes); total paved shoulder width-16 ft., with 4' (total) rocked shoulders. Curb and gutter can substitute for rocked shoulder; roadbed 68 ft.; right-of-way 80 ft. for parallel parking, 98 ft. for diagonal parking; no clearing limit. An additional nine (9) feet of paved shoulder is required for each side where diagonal parking will be placed.

CLASS 2: Projected Traffic + 5,000 - 7,500 ADT

Surfaced traveled way 36 ft. (3 lanes with center lane to be either a passing lane, a left turn lane, or a combination of the two); total paved shoulder width 16 ft.; width 4' (total) rocked shoulder. Curb and gutter can substitute for rocked shoulder; roadbed 56 ft.; right-of-way 80 ft. for parallel parking, 98 ft. for diagonal parking; no clearing limit. An additional nine (9) feet of paved shoulder is required for each side where diagonal parking will be placed.

CLASS 3: Projected Traffic - 5,000 ADT

Surfaced traveled way 22 ft.; total paved shoulder width 16 ft., with 4' (total) rocked shoulders. Total shoulder width may be reduced to 6 ft. where no on-street parking is permitted and where no special maneuvering areas are necessary for traffic safety and ADT is less than 1,000. Curb and gutter can substitute for rocked shoulder; roadbed 42 ft.; right-of-way 60 ft. for parallel parking, 78 ft. for diagonal parking; no clearing limit. An additional nine (9) feet of paved shoulder is required for each side where diagonal parking will be placed.

CLASS 4A: Projected Traffic + 1,000 ADT

Surfaced traveled way 24 ft.; total shoulder width 16 ft.; roadbed 40 ft.; right-of-way 60 ft.; clearing limit 4 ft.

CLASS 4B: Projected Traffic 400 - 1,000 ADT

Surfaced traveled way 24 ft.; total shoulder width 8 ft.; roadbed 32 ft.; right-of-way 60 ft.; clearing limit 4 ft.

CLASS 4C: Projected Traffic - 400 ADT

Surfaced traveled way 20 ft. (rocked); total shoulder width 4 ft.; roadbed 24 ft.; right-of-way 60 ft.; clearing limit 2 ft.

CLASS 5: Projected Traffic + 1,000 ADT

Surfaced traveled way 22 ft.; total shoulder width 18 ft.; roadbed 40 ft.; right-of-way 60 ft.; clearing limit 4 ft.

CLASS 6: Projected Traffic + 400 - 1,000 ADT

Surfaced traveled way 22 ft.; total shoulder width 8 ft.; roadbed 30 ft.; right-of-way 60 ft.; clearing limit 4 ft.

CLASS 7: Projected Traffic - 400 ADT

Surfaced traveled way 22 ft.; total shoulder width 4 ft.; roadbed 26 ft.; right-of-way 50 ft.; clearing limit 2 ft.

CLASS 8

Surfaced traveled way 12 ft. (one way); total shoulder width 8 ft.; roadbed 20 ft.; right-of-way 40 ft. clearing limit 2 ft.

CLASS 9

Surfaced traveled way **20 ft.** (rocked); total shoulder width 4 ft., but 0 ft. if exception is granted under Section 9-9.202 of this Code; roadbed **24 ft.**, right-of-way 40 ft.; clearing limit 2 ft.

CLASS 10

Surfaced traveled way **20 ft.** (graded); total shoulder width 4 ft., but 0 ft. if exception is granted under Section 9-9.202 of this Code; roadbed **24 ft.**; right-of-way 40 ft.; clearing limit 2 ft.

CLASS 11

Surfaced traveled way 10 ft. (graded); total shoulder width **4 ft.**; roadbed 10 ft.; right-of-way 20 ft., where right-of-way is needed; **unobstructed horizontal clearing limit of fourteen (14) ft. and unobstructed vertical clearing limit of fifteen (15) ft.**

- (a) Roadway surfaces on classes of public and private roads (**Class 1 through Class 10, inclusive**), shall be **designed and maintained to support an imposed load of fire apparatus weighing at least 75,000 pounds as required by Vehicle Code Sections 5-35250 and 35550 through 35796. Roadway surfaces shall provide an all-weather aggregate base.** All bridges, culverts, and other appurtenant structures which supplement the roadway bed or shoulders shall **be constructed to carry at least the maximum load and provide the minimum vertical clearance as required by Vehicle Code Sections 35250 and 35550 through 35796. Applicant shall provide engineering specifications to support design, if requested by the County Engineer.**
- (b) **Class 11 roadways (residential driveways) shall be designed to support an imposed load of fire apparatus weighing at least 40,000 pounds as required by Vehicle Code Sections 35250 and 35550 through 35796. Driveway surfaces shall provide an all-weather base.**
- (c) All roadways shall provide a minimum vertical clearance of 15 ft.

(§ 1, Ord. 87-662, eff. June 4, 1987, as amended by Ord. 87-668, eff. July 9, 1987, and § 1, Ord. 91-762, eff. December 13, 1991, and § 1, Ord. 92-783, eff. July 9, 1992, and § 1, Ord. 93-802, eff. March 4, 1993, and § 3, Ord. 02-975, eff. October 2, 2002)

Sec. 9-4.502. Turnouts.

Turnouts shall be a minimum of **twelve (12')** wide and thirty (30') feet long with a minimum twenty-five (25') foot taper on each end.

(§ 1, Ord. 91-762, eff. December 13, 1991)

Sec. 9-4.503. Turnarounds.

- (a) The turnaround area at the end of dead-end roads shall be improved with subbase and base as required by the road classification for a diameter of eighty (80') feet and shall be provided with shoulders as required for the class of road served. The turnaround area at the end of dead-end paved roads shall be paved for a diameter of sixty (60') feet. Right-of-way for turnarounds shall be a minimum diameter of twenty (20') feet more than the diameter of the required surfaced area and shoulder.
- (b) T turnarounds
 - (1) T turnarounds shall be permitted at the end of driveways.
 - (2) T turnarounds may be permitted through an exception granted as provided in Section 9-9.202 of Article 2 of Chapter 9 of Title 9 of this Code.
 - (3) The top of the "T" of a T turnaround shall be at least sixty (60') feet long.
 - (4) The components of a T turnaround shall be no narrower than the roadway which serves it and shall be constructed to the same standards.
 - (5) The top of the "T" of a T turnaround at the end of a driveway shall be no narrower than twenty (20') feet and shall be constructed to the same standard as the driveway.
- (c) Provisions shall be made for adequate snow storage areas at cul-de-sacs or turnarounds. These areas shall be free of above ground utility equipment and driveways. The areas shall be a minimum of thirty (30') feet wide by twenty (20') feet deep and be located behind surface drainage improvements.

(§ 1, Ord. 91-762, eff. December 13, 1991, as amended by § 1, Ord. 92-783, eff. July 9, 1992, and § 2, Ord. 93-802, eff. March 4, 1993)