

foundation of the ground is not disturbed in rounding up the road as is done with common plows and scrapers. Every municipality should own a road machine and should have a man especially instructed and constantly in charge of it. With a road machine in skilled hands, there will be no question raised as to the economy of construction and repairs and the efficiency of the work done.

**WIDTH OF ROADWAY.** The roadway should be twenty-six feet between the ditches and the metalling for ordinary roads eight feet wide; where more than a single line of travel is required the metalling should be sixteen feet wide.

**HEIGHT OF CROWN.** A roadway of this width should have a crown of at least ten inches and should always be maintained in this shape.

**ROLLING.** After the road machine has completed its work, the whole grade should be rolled with a roller weighing about five tons. Rolling is essential in making the foundation and surfacing to form permanent or gravel roads. The roller should follow closely upon the grader or scraper so that the loose earth may be consolidated while it is still moist. The roller should pass many times over the softer portions of the road, and where the road is very dry and not inclined to pack, it may be slightly moistened to facilitate the consolidation of the earth. The rolling should begin at the sides of the road and proceed gradually towards the centre; that is, the roller should be passed from end to end along the side of the road and then in the second passage the roller should slightly lap the first passage until the centre of the road is reached.

**METALLING.** After the formation of the road and the draining are completed, the mass of broken stone or gravel which is to form its wearing surface should be laid, packed and so consolidated that it will be practically water-tight. Such a road will be durable and easily maintained. It will shed water readily. Its hardness will prevent the formation of ruts, which is the first stage of destruction.

**WIDTH OF TIRES.** If all wagons used in country roads could be provided with tires four inches wide, they would roll the surface more smoothly and more quickly, and the road would be in fairly good condition all the year round.

**NOXIOUS WEEDS.** Chapter 202, R.S.O., 1887.

(Sec. 9.) "It shall be the duty of the overseers of highways in any municipality to see that the provisions of this Act relating to Noxious Weeds are carried out within their respective highway divisions by cutting down or destroying or causing to be cut down or destroyed at the proper times, to prevent the ripening of their seed, all the