

*Railway-crossings.*

106. In cases where roads abut upon or cross railway-lines the surveyor must report to the Chief Surveyor, who shall communicate with the District Engineer of Railways on the subject, with the view of arranging for suitable crossings.

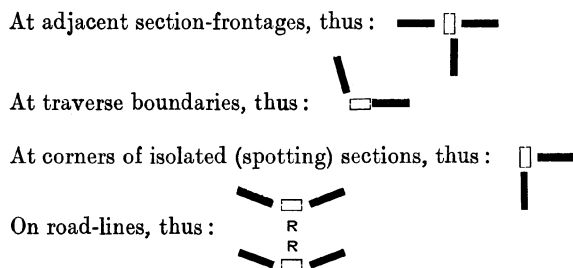
GROUND-MARKING.

*Pegging.*

107. All pegs are to be of sawn or split and dressed heart of totara, kowhai, jarrah, blue-gum, kauri, matai, puriri, or hinau, 2½ in. by 2½ in., or, if not procurable, 3 in. by 2 in., and 2 ft. long, driven not less than 18 in. into the ground, a hole having first been made with an iron jumper. In special circumstances the length of peg must be varied—thus, in loose sand or in swamp pegs 3 ft. or more in length may be used; while on public roads, railways, and centre-road traverse, where pegs must be driven flush with the surface, 18 in. pegs or 8 in. iron spikes may be used. The front pegs of sections must have the numbers of the sections and the letter R branded or cut on them; back pegs are also to be branded with the section-numbers; road-traverse pegs must be marked with the station-number in Roman numerals, the letter R, and the broad arrow; ranging-pegs with the broad arrow only. In forest, conspicuous trees adjacent to section-corners should be marked with a distinctive mark, and a description of the tree, with its bearing and distance from the corner, noted in the field-book. Pegs shall be inserted and lockspits made in open country at the intersections of the boundaries of sections with every road, large stream, or path in positions likely to be seen by the public; and in standing forest iron pins, 15 in. long and ¼ in. diameter, shall be driven alongside every corner peg. All traverse-pegs should be centred with a tack, and all pegs split in driving must be replaced.

*Trenches and Lockspits.*

108. In open country, wherever possible, all pegs shall have trenches dug, as shown below:—



In all cases commencing 2 ft. from the peg.

The trenches to be of the following dimensions:—

- (a.) At corners of survey blocks—6 ft. long, 15 in. wide, and 12 in. deep.
- (b.) At corners of isolated sections and at the ends of lines over 80 chains in length—4 ft. long, 12 in. wide, and 10 in. deep.
- (c.) At all road, ranging, and corner pegs other than as above—3 ft. long, 9 in. wide, and 9 in. deep.

In town and suburban surveys trenches will only be required at the corners of each block of subdivisions.

[NOTE.—Where trenches cannot be dug and stones are available, the peg should be packed round with stones, and the direction of the lines should be indicated by short lines of stones.]

RESERVES UPON CROWN LANDS.

*Frontages of Lakes, Seas, Rivers, &c.*

109. There is to be reserved from sale or other disposition a strip of land not less than 66 ft. in width along all high-water lines of the sea and of its bays, inlets, or creeks, and along the margins of all lakes exceeding 50 acres in area, and along the banks of all rivers and streams of an average width of not less than 33 ft., and, in the discretion of the Commissioner of Crown Lands, along the bank of any river or stream of less width than 33 ft.

*School-sites.*

110. Suitable school-sites of about 10 acres each are to be reserved where required.