for making subsequent additions either to the heights or widths of the embankments, to bring them to the correct levels and dimensions.

Whenever the foundation of an embankment is on sloping ground, the Contractor, if required, must at his own expense cut steps and benches under the base of the embankment.

The top of embankment at formation level is to be 10 feet wide; the slopes to be trimmed off to an inclination of one and a half horizontal to one vertical, and to be maintained full and true until the completion of the contract.

The Contractors shall, unless otherwise directed by the Engineer, take care not in any way to interfere with or divert the existing drainage areas, and shall leave such stops or stanks in the side cuttings, and take such other precautions, as the Engineer shall think necessary for that purpose.

Behind and around culverts and abutments of bridges, the embankments shall be wheeled in and carefully rammed.

DITCHES AND DRAINS.

Ditches and drains.

Punning.

8. When the line crosses swamps of a peaty nature, catchwater drains are to be cut on the upper side of the line obliquely across the valleys, so as to tap the These ditches shall not exceed, on an average, one and one-third cubic yard per lineal yard, and are to be made at the commencement of the work, and cleaned out from time to time as may be ordered.

STREAM DIVERSIONS.

Stream diversions.

9. All stream diversions are to be grubbed out as described for cuttings, and excavated with regular slopes and inclinations, as will be set out. The amount of earth cutting in stream diversions is not, however, to exceed 20,000 cubic yards, and the rock excavation is not to exceed 5,000 cubic yards.

ROAD ALTERATIONS.

Road alterations.

10. At the places shown on the plan and section, and wherever necessary, the present roads are to be diverted.

All such diversions and road approaches to the level crossings are to be completed in a convenient, substantial, and proper manner, with the necessary drains, water tables, and side slopes. Such approaches and road diversions are to be formed with an inclination not steeper than 1 in 30 for public roads, and 1 in 20 for private roads, except where the present inclination exceeds these rates, in which case the inclination of the new road shall not exceed that of the present road, unless, in the opinion of the Engineer, a steeper is unavoidable.

Public roads and approaches to first-class crossings are to be metalled with coarse river gravel or approved hard stone, laid on and spread as directed, so as to average 22 cubic yards per lineal chain of road. Private roads are to be metalled with coarse river gravel or broken stone of approved quality, laid on and spread as directed, so as to average 9 cubic yards per lineal chain. The whole of the metal is to be broken to pass through a two and a half inch ring.

Where Clarkson's Road requires to be diverted, a new bridge will be required

for the road, similar in plan and materials to the existing bridge.

Twenty-two first-class, five second-class, and five third-class crossings, with two cattle-stops to each crossing, as per Drawing No. 30, shall be constructed at public and private roads where directed. They shall be carefuly placed as to line and level, and finished in strict conformity with the drawing and the notes Each level crossing shall be metalled for a length of 66 feet on each side of the centre line, as above specified for the roads, and tile or timber box drains shall be put in the formation ditches where necessary for the drainage of the line or road.

Forty pairs of malleable iron tubular or other approved gates, 12 feet wide, hung to strong posts, and furnished with bolts and padlocks, shall be provided and hung at private crossings where directed.

Cattle stops, as shown in Drawing No. 30, are to be put in where directed, not exceeding forty in number, besides those at level crossings.

Metalling.

Clarkson's Road Bridge.

Level crossings.

Gates.

Cattle stops.