

23. In rock cuttings, should such occur, the slopes as a rule one horizontal to four perpendicular.

24. In cuttings or embankments of sand slopes to be two feet horizontal to one perpendicular.

25. In cuttings partly earth and partly rock, a berm of three feet shall be left on the surface of the rock. The widths, slopes, and other dimensions above defined may be varied by the Engineer at any time to suit circumstances.

26. The material to be placed in the embankments must be approved by the Engineer, and in places where the natural surface of the ground upon which the embankment is to rest is covered with vegetable matter, which cannot be burned off in clearing, and which would, in the opinion of the Engineer, impair the work, the same must be removed to his entire satisfaction.

27. All sloping ground covered with pasture shall be deeply ploughed over the base of the embankments, before the latter are commenced.

28. All side hill ground to be covered by embankments shall first be thoroughly underdrained, as the Engineer may see expedient, and all cutting after being formed, and all slopes likely to be affected by wet, must be similarly underdrained, longitudinally or transversely, or both, as circumstances may seem to him to require. These drains will be constructed in a similar way to that which ordinary land drains are sometimes made; a trench will first be dug to a depth of four feet on an average; and barely wide enough for a man to stand. In the bottom of this trench three or four cedar or spruce poles, from two to three inches diameter: will first be laid by hand, and