

ROAD BEDS.

EARTH BALLAST.

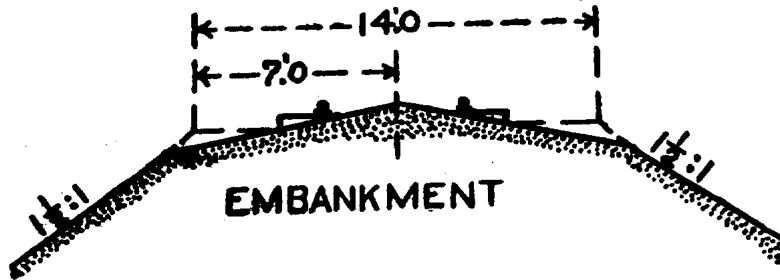


FIG. 41.

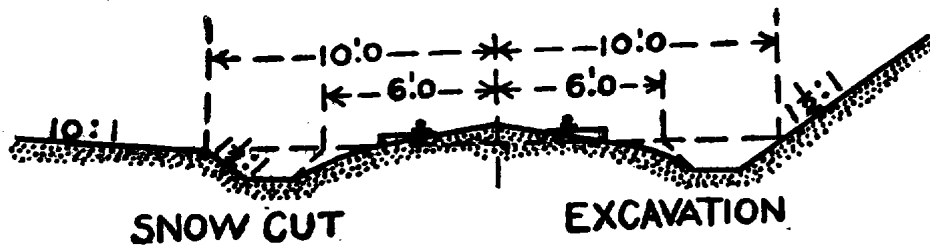


FIG. 42.—20-FT. BASE (UNDER 4 FT. IN DEPTH).

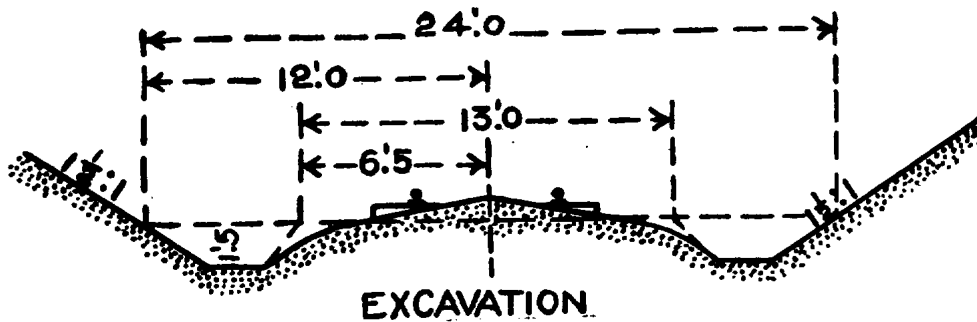


FIG. 43.—24-FT. BASE (4 FT. AND OVER IN DEPTH).



**ROAD BEDS.
STONE OR GRAVEL BALLAST.**

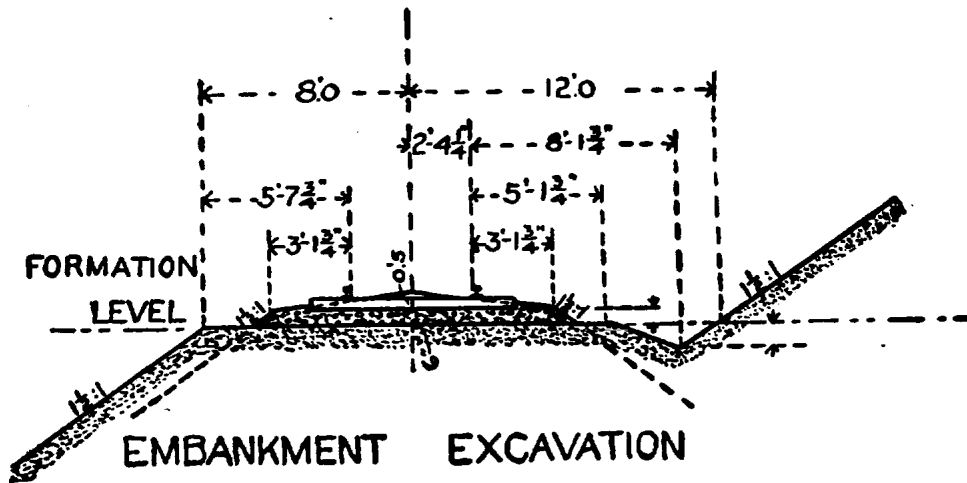


FIG. 44.—STRAIGHT LINE.

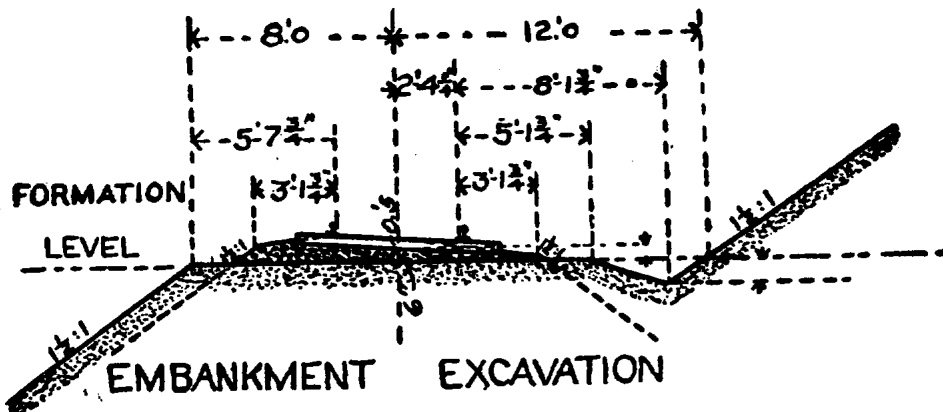


FIG. 45.—CURVED LINE.

SCALE 0 1 2 3 4 5 6 7 8 9 10 FEET

ROAD BEDS.

STONE OR GRAVEL BALLAST.

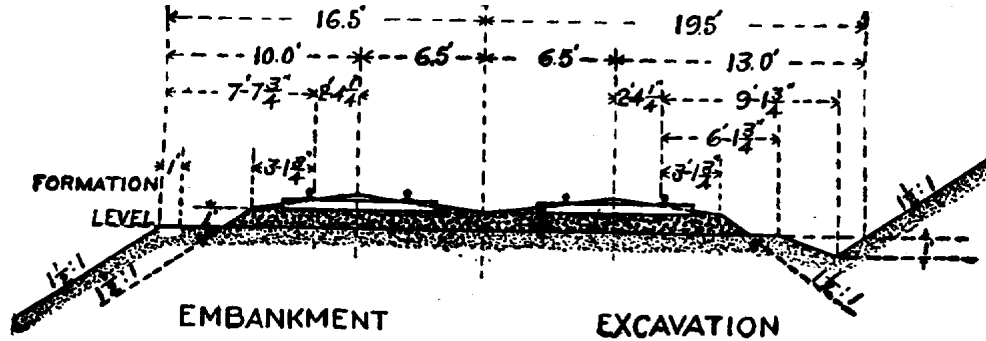


FIG. 46.—STRAIGHT LINE (DOUBLE TRACK).

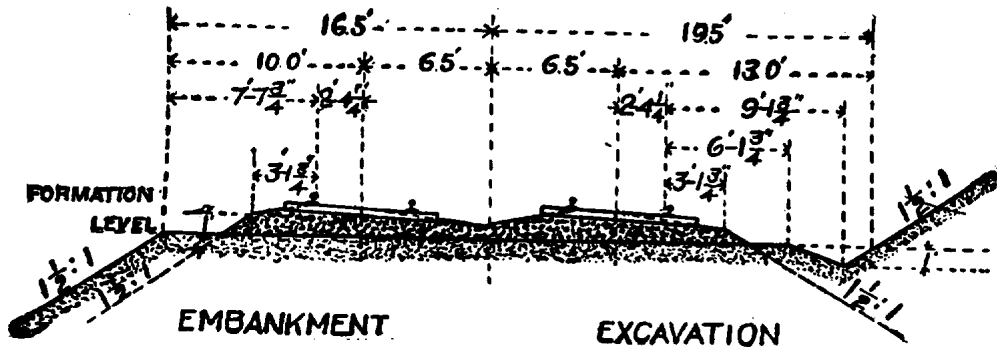
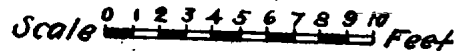


FIG. 47.—CURVED LINE (DOUBLE TRACK).



TOOLS AND APPLIANCES.

90. Many of the tools and appliances used in railroad work are so well known that no description is given.

Figs. 48 to 71 show some of the tools and equipment that will be found in use on all railways.

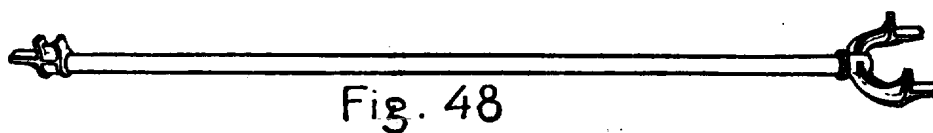


Fig. 48



Fig. 49

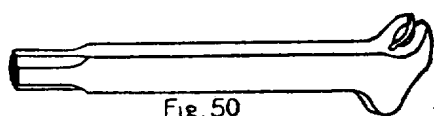


Fig 50

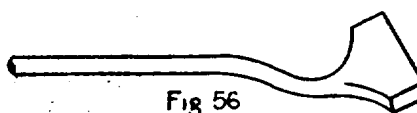


Fig 56

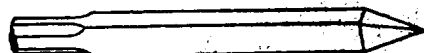


Fig 51



Fig 57

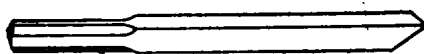


Fig 52



Fig 58

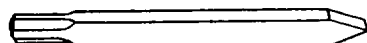


Fig 53

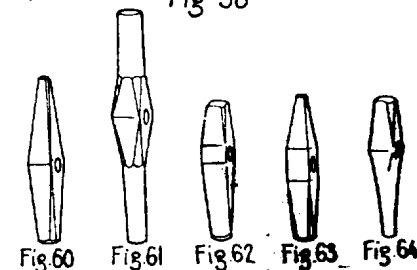


Fig.60

Fig.61

Fig.62

Fig.63

Fig.64

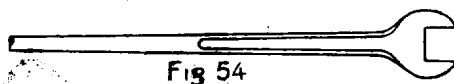


Fig 54

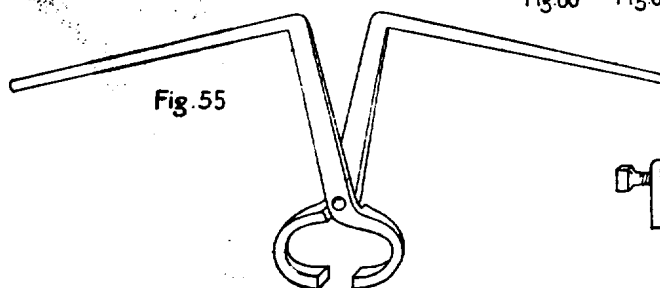


Fig.55

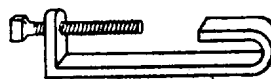


Fig 59

FIG. 48.—TRACK GAUGE.

49.—TRACK LEVEL.

50.—CLAW BAR.

51.—LINING BAR.

52.—CROWBAR (PINCH POINT).

53.—CROWBAR (WEDGE POINT).

54.—TRUCK WRENCH.

55.—RAIL TONGS.

56.—TAMPING BAR.

FIG. 57.—PICKAX (CLAY PICK).

58.—TAMPING PICK.

59.—RAIL CLAMP.

60.—SPIKE MAUL.

61.—SPIKE MAUL (PITTSBURGH PATTERN).

62.—TRACK CHISEL.

63.—TRACK PUNCH.

64.—TRACK PUNCH (ROUND POINT).

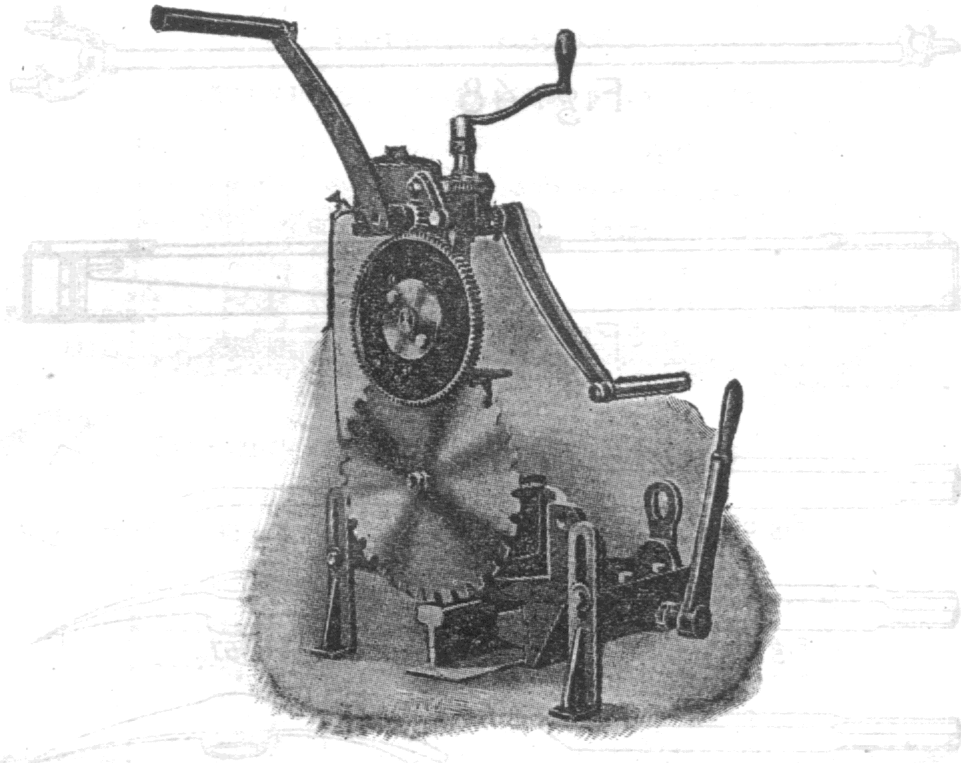


FIG. 65.—RAIL SAW.

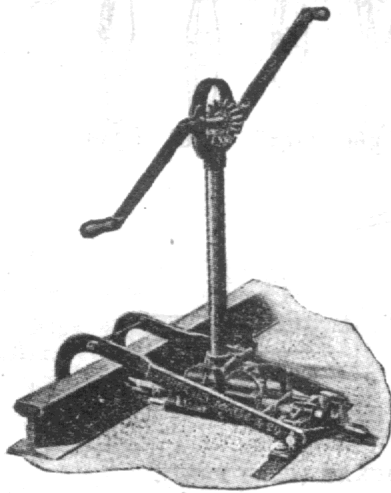


FIG. 66.—TRACK DRILL.

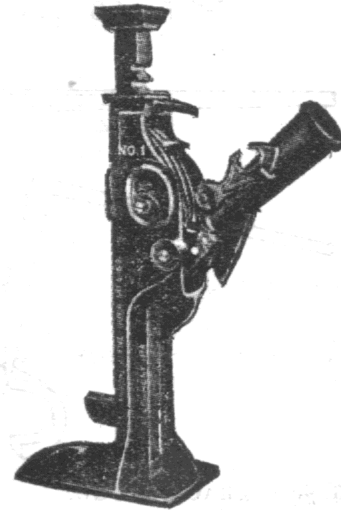


FIG. 67.—TRACK JACK.

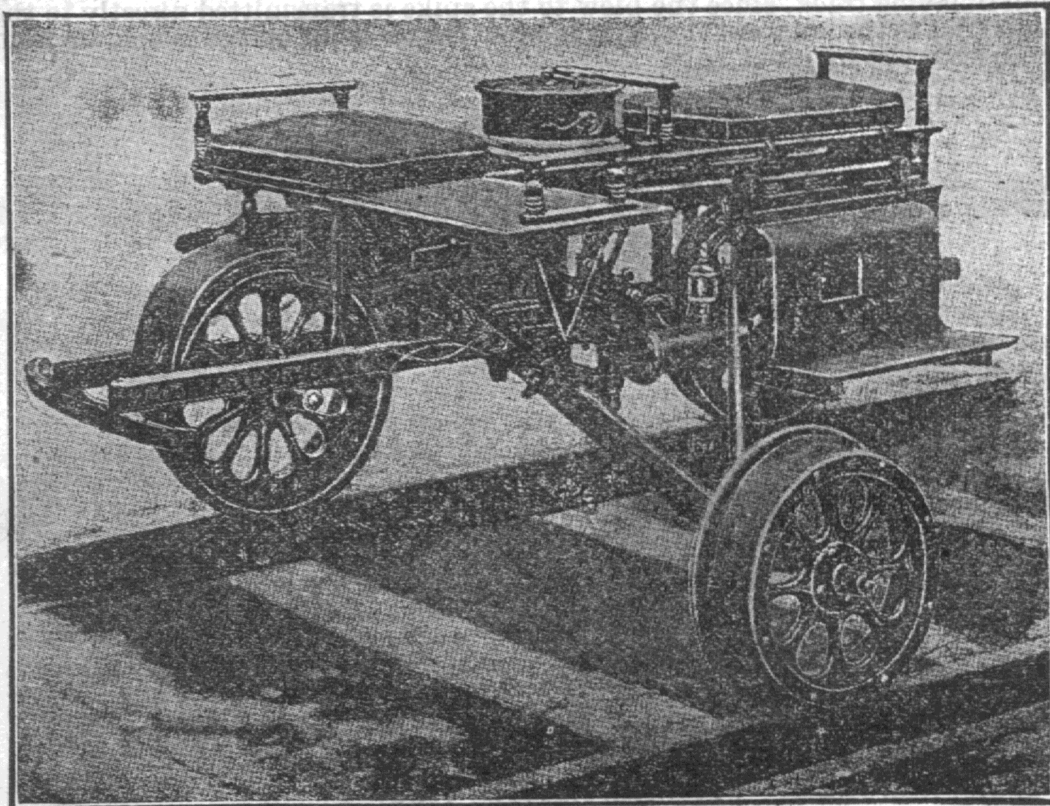


FIG. 68.—GASOLINE VELOCIPED.

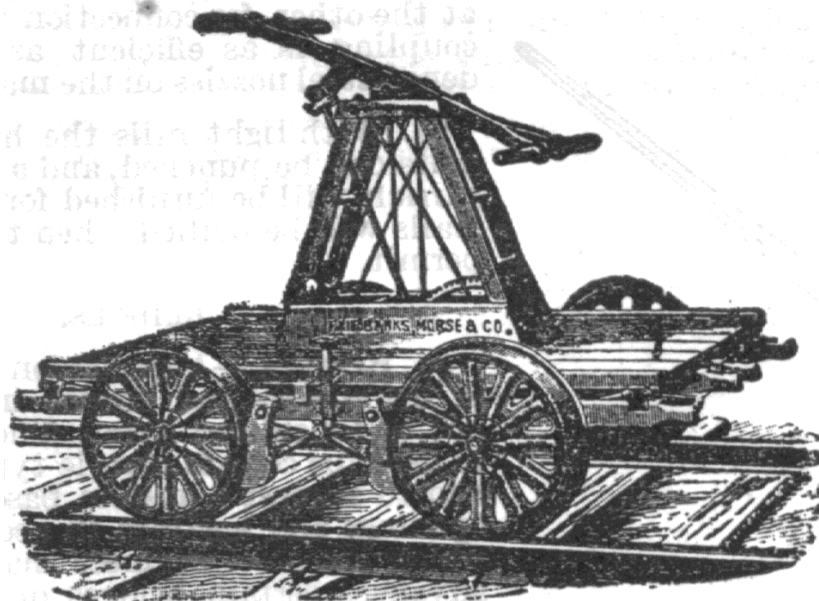


FIG. 69.—HAND CAR.