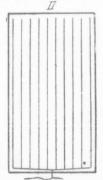
Laying Out Tile Drains

The majority of farmers in this country have to do a certain amount of tile draining in order to control the surface water on their farms. In laying out a system of drainage the first thing to do is to decide on the location of the outlet or outlets. This able point, so as to secure the great-est amount of fall. Just as few out-lets should be had as possible, as they are always a source of trouble. Next locate the main, having it



follow the line and direction of the lowest lying ground. This can be done by noticing the channel in which the greatest amount of surface water tends to run after a heavy rain. The main will thus be likely to have a location somewhere near the centre of the area drained rather than on one side of it. Of course, when this is done, the laterals entering from both and already drained by the main, but as the main in this case is supposed to be in the lowest ground most needing drainage, the extra amount does no harm. On a comparatively flat piece of ground, where there are no particularly lowcomparatively hat piece of ground, where there are no particularly low-lying channels, it is better to locate the main at one end or side and place the laterals in parallel lines at nearly right angles to it. These two arrangements are shown in the cut.



required to drain ten and one-third acres with the lines fifty feet apart. In 11 the same total length of drains are required as in 1, but only 475 feet of four-inch main is used. There is thus a saving of about \$6.50 in the acres of the control particular arrangement can be used cuttirely, as so much depends upon the slope and conformation of the land. It is always important, however, that some systematic arrangement of the drains is made, for thorough drainage in a haphazard way is should to obtain and is most expensively the systematic and the state of the state of the state of the systematic land of the system of the systematic land of the system of the sy out so as to secure the greatest fall, the least expense for tile, the mini-mum amount of digging and the most perfect drainage. If at all possible

lay all the lines of tile parallel, put-ting them in through the wettest places first. Then, if your faith and your purse are not strong enough to do thorough work in the beginning you will have your field in such shape that additional lines can be added that additional lines can be added in the future as your faith and money increases. Another important mat-ter is to keep an accurate plan or plot of the drains on paper. This will show their exact location and will be valuable for future reference, especially if the land should come into the possession of other parties. —F. W. T.



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