

Questions and Answers.

Miscellaneous.

Drainage Problems.

A B C and D enter into an agreement with the municipal council along the south side of a road between the road and front of the above ratepayers' farms; the ratepayers paying one-half for their benefit and the municipal council one-half for the benefit of the road. After which E, a ratepayer whose land lies on the other side of the road opposite C's property, makes application to have larger tile put through the roadbed in order to give him sufficient outlet to drain about 40 acres of his farm over into this agreement drain. Now the drain is out of repair; this drain is not under the Drainage and Water Courses Act.

1. Can A, B, C and D demand this drain cleaned out the same as if it were under the Drainage and Water Courses Act?

2. What steps must they take to bring the drain under the Drainage and Water Courses Act?

3. Now, as E wants to drain 40 acres of his land can he be compelled to pay his portion to help repair the drain? D. M.

Ans.—1 and 2. If the drain is not giving satisfaction any owner of land affected by the drain can file with the clerk of the municipality the requisition to serve upon the owners or occupants of lands affected a notice in writing signed by him, and naming therein a day and hour and place convenient to the ditch at which all owners are to meet and estimate the cost of the ditch and agree upon the apportionment of the work. Failing to arrive at an agreement an engineer can be called to survey the drain and levy on each farm affected a portion of the work or cost.

3. Yes.

Pumping Water.

In "The Advocate" of February 17 your answers appear in reference to questions I asked about bringing water from a well through pipes to a pump in separator room; for this purpose I am using 1½-inch piping. I would like to connect to this cistern hose through which water can be forced to a height of at least 35 feet for use in case of fire and when needed in filling silo. If this is practicable what style of pump should be used? How and where should connections be made? How many horse power engine should be used to do the pumping, run separator and milking machine—each separately? My barn is 114 feet long, about 40 feet to peak, separator room 11 by 14½ feet, located nearly in center of barn and next to silo. There is a room exactly same size above where water tank is placed. This room with little expense can be made frost proof. If thought advisable the pump can be placed in this room, which is on the level with barn floor.

G. W. M.

Ans.—It is doubtful if sufficient water would be supplied direct from a force pump to be of much use in case of fire, unless the pump were double acting, so as to give a continuous stream. The same would apply in case of filling the silo. It is necessary to have an even steady stream which can only be secured direct from a supply tank. In wetting corn when filling the silo the stream of water is run into the blower pipe at the cutting box. If water is to be lifted above the pump level a force pump must be used and the hose could be connected to the pump spout. A 2-horse-power gasoline engine should be powerful enough to do the work required. The room mentioned should be a good place for the pump. We believe a pneumatic storage tank which could be placed in the pump room or in the basement where there would be no danger from frost, would prove more satisfactory for the purpose required. A tank sufficiently large to hold a supply of water that would be of use in case of fire, could be secured, and the same size engine would do to pump the water into it. The steel tank is air tight, and the water pumped into it compresses the air and gives pressure sufficient to force water to any part of the building.

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