

The last column, cubic yards, is not necessary for schedules for ditches done under the Ditches and Watercourses Act, as it is inserted only to enable the inspector to make a correct monthly estimate. Columns Nos. 7 and 8 are not necessary for ditches constructed under the Municipal Act; as was said before the whole job is generally done by contract.

Under the Ditches and Watercourses Act, it is always best to furnish each of the interested parties with a copy of the schedule of that portion of the ditch which said party has to execute, thereby doing away with the liability of mistakes in copying figures from the schedule filed with the Clerk.

The plan is very seldom referred to, and is, in fact, almost altogether useless, excepting where there is an appeal from an award, and then a copy has to be supplied to the Court from the Clerk's office, certified by him as a true copy, etc., etc., which makes it needful to have one. In addition to the lines of the ditch and the lot lines I generally show on the plan the bearing (mag.) of each course, the numbers of the angle stakes, the changes in the bottom widths of the ditch, and the numbers of the stakes where one party's portion ends and another begins. Sometimes the land to be drained is shown on the plan in dotted lines with the area of each lot, or portion of lot, that is to be drained. It is sometimes the custom to draw a series of parallel lines on the plan at stated distances from the ditch and parallel thereto, and make the assessment according to the areas included within said lines; but, as this system is most materially wrong, the less said about it the better.

The form of specification here given is the result of a great many years' experience in ditching, and was originally compiled by the officials of the Canada Company, with the exception of paragraph *b*, which I have added myself, and I think it an improvement, and I have also added, or rather given, different names for the papers the contractor is to get his information from.

SPECIFICATIONS.

(a) The dimensions and cross-sections of the ditch shall in all cases conform with the plan, profile, and schedule hereto attached.

(b) The depths given in the schedule are *supposed* to be correct; but the contractor will, in all cases, verify the grade of the finished ditch, and make it conform with the grades given on the profile and schedule, even by so doing making a difference in the depth of any station.

(c) At all suitable places not more than — rods apart, spaces or openings, not less than three feet wide at the bottom and having side slopes inclined at the rate of one to one, shall be left in the spoil banks, on either side of said ditch, to admit of the ready inflow of surface water from the adjoining lands.

(d) The whole shall be brought to a regular inclination at the bottom so that no water shall stand stagnant therein. The slopes shall be brought to a uniform angle throughout, and shall be dressed to a straight line from the top to the bottom thereof. And a clear *berm*, or margin, of not less than — feet, shall be left between the top of the slope and the foot of the spoil bank throughout the entire length of said ditch. That side of the spoil bank next the ditch shall have a batter of not more than one and