

as possible, as the fewer stations you have to command the whole, the more exact the work will be.

In selecting the stations, care should be taken that the lines which connect them may run along the boundaries of the estate, or some of the hedges, to which offsets may be taken when necessary.

3. Take such angles, between the stations, as you think necessary, and measure the distance from station to station, always in a right line; these things must be done till you get as many lines and angles as are sufficient for determining all the station points. In measuring any of these station distances, mark accurately where these lines meet with any hedges, ditches, roads, lanes, paths, rivulets, &c., and where any remarkable object is placed, by measuring its distance from the station line; and where a perpendicular from it cuts that line; and always mind, in any of these observations, that you be in a right line, which you may easily know by taking a back-sight and fore-sight, along the station line. In going along any main station line, take offsets to the ends of all hedges, and to any pond, house, mill, bridge, &c., omitting nothing that is remarkable. All these things must be noted down; for these are the data by which the places of such objects are to be determined on the plan.

Be careful to set up marks at the intersections of all hedges with the station line, that you may know where to measure from when you come to survey the particular fields that are crossed by this line.

These fields must be measured as soon as you have completed your station line whilst they are fresh in your memory. In this manner all the station lines must be measured, and the situations of all adjacent objects determined. It will be proper to lay down the work on paper every night, that you may see how you go on.

4. With respect to the internal parts of the estate, they must be determined by new station lines; for, after the main stations are determined, and every thing adjoining to them, then the estate must be subdivided into two or three