



Locating engineers and their subordinates will be guided by the following letter of instructions to be supplemented from time to time by such additional instructions as seem to be necessary, and locating engineers are requested that on receipt of such supplement- also they attach them to this letter, and keep the whole on file in their office accessible to all employees and other parties concerned.

Preliminary lines are to be run as near as possible to where the final location will lie as it is possible.

Topography is to be taken the full length of the line and for 300 feet on each side.

Plot all preliminary lines on 36-inch duplex manilla paper to a scale 400 feet to one inch.

Plot all topography taken and on this map project the location in pencil, showing alignment, station and mile the line through- out. No projection is to be inked in, but left in pencil so that the final location can be inked in on this original topographical map and turned in as the final 400-ft. map of the location line.

Do not allow the line or topography to approach the edges of this 36" map roll nearer than 3 inches, and do not piece out the map on the sides by pasting on pieces of paper, it being preferable and preferred by this office that the line be broken.

It is not intended that this relieve the draughtsman and others interested from making every effort to so start their line as to have it contained within the limits mentioned with as few breaks as possible.

On preliminary lines take accurate land lines, at least every two miles, and often if possible. The topographer will note the stations where the line leaves timber land and enters cultivated land, and vice versa. Note all fences and other im- provements within the scope of the topography. The size of build- ings on preliminary should be stepped and distance taken to two cor- ners on the long side towards the line, and these two distances taken at right angles to the center line, and the station given to each. Indicate fences by zigzag lines.

The locating engineer's draughtsman will as soon as the party arrives in the field prepare a general map on a scale of 5000 feet to the inch of the country between the points the line