

**HIGHER TECHNICAL INSTITUTE  
CIVIL ENGINEERING DEPARTMENT**

**DIPLOMA PROJECT**

**PRODUCTION OF A  
TOPOGRAPHICAL MAP**

**C/991**

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## SUMMARY

The objective of this project was to produce a topographical map of an area. The area mapped lies in Makedonitissa.

At first a reconnaissance survey was made in order to select the most suitable stations and boundaries to be used. Seven stations were chosen with a middle point, helping us to carry out the checks around the traverse.

Initially, the grid was set -out, at 20m intervals, so that levels at several points could be recorded. Then the angles and distances of the traverse were observed using the theodolite and the measuring tape.

Furthermore the detail of the area was carried out with the aid of a total station, by taking shots of the main features around the traverse.

The instruments used during the field process were: an automatic level with a staff, a theodolite and a total station with its prisms.

Finally the maps were produced. A traverse map, indicating the selected stations, a detail map, showing the main features of the area, a contour map showing the grid and the contour lines observed, and the final map which concludes all the above.

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