

PRODUCTION OF A TOPOGRAPHICAL MAP

BY

EFSTATHIOU KYRIAKOS

Project report
Submitted to
the Department of Civil Engineering of
the Higher Technical Institute
NICOSIA, CYPRUS.

In partial fulfilment of the requirements
for the diploma of

TECHNICIAN ENGINEER

IN

CIVIL ENGINEERING

May 1990

HIGHER TECHNICAL INSTITUTE	PROJECT NO 1577
----------------------------------	--------------------

SUMMARY

The object of the project was to produce a topographical map of an area 200X400 M chosen by myself. The area is situated in Aglantzia and it is nearby the Philoxenia Hotel.

The whole project was divided into the following steps:

- a] The first step was the reconnaissance survey of the area and the selection of position and number of stations.
- b] Next, the co-ordinates of the stations were determined by the process of traversing.
- c] After, using levelling the reduced level of the stations were found, assuming the reduced level of the St. 1 as 100M.
- d] Contouring was carried out using the grid method.
- e] Finally, all existing features within the boundaries of the area were measured by the process of chain surveying.

By the combination of the above three maps were drawn:

- i] Traverse
- ii] Levelling & Contouring
- iii] Final map.

CONTENTS

	Page
Acknowledgements	1
Summary	2
Equipment Used	3
Introduction	8
Traverse Surveying	12
Levelling	32
Contouring	48
Chain Surveying	70
Comments	95
References	97