

HIGHER TECHNICAL INSTITUTE

CIVIL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

PRODUCTION OF A DRAWING WITH THE
AID OF A CAD PACKAGE

C/946

BY CHRISTINA CHRISTOFI

JUNE 2001

**PRODUCTION OF A DRAWING WITH
THE AID
OF A CAD PACKAGE**

BY

C. CHRISTOFI

**PROJECT REPORT SUBMITTED TO THE
DEPARTMENT OF**

CIVIL ENGINEERING OF

HIGHER TECHNICAL INSTITUTE

NICOSIA-CYPRUS

C/946

**IN PARTIAL FULLFILLMENT
OF THE REQUIRMENTS
FOR THE DIPLOMA OF
TECHNICAL ENGINEERING**

IN

CIVIL ENGINEERING

JUNE 2001

HIGHER TECHNICAL INSTITUTE	PROJECT NO. 3216
----------------------------------	---------------------

CONTENTS

	PAGE
Acknowledgements	4
Objective	5
Introduction	6
<u>Chapter 1.0</u>	7
1.1 What is CAD	8-9
1.2 How to create a design in CAD	9-10
1.3 Equipment required	10
<u>Chapter 2.0</u>	11
2.1 Learning AutoCAD's menu and commands	12
2.2 The benefits of learning to communicate with 14 AutoCAD	12
<u>Chapter 3.0</u>	13
3.1 AutoCAD's window	14
3.2 Opening existing drawing	15
3.3 Saving a drawing	15
3.4 Layers	16
<u>Chapter 4.0</u>	17
4.1 Standard toolbar	18

4.2 Draw toolbar	18
4.2.1 Blocks	18
4.2.2 Hatch	19
4.3 Modify toolbar	19-21
4.4 Object snap	21
4.5 Zoom	22
4.6 Inquiry	22
4.7 Dimensioning	22-23
<u>Chapter 5.0</u>	24
5.1 Conclusions	25
Reference	26-27
Drawings	28

Acknowledgement

I would like to express my deep appreciation to all people who helped me finish my project successfully.

I especially thank Mrs. Maria Mavrou the architect of the drawings I used in my project.

I also thank my family and friends and especially my parents for their moral and financial support during this three years of my studies at H.T.I. and also on the fulfillment of this project.

Finally I would like to express my gratitude to my project supervisor Mr. K. Anastasiades for his good advises not only concerning the project but for other topics too.

Thank you all,

Christina Christofi.

OBJECTIVE

The objectives of this project are :

1. To discuss in general the applicability of computer drawings.
2. to become familiar with a CAD Package.
3. to produce drawings with the aid of the CAD Package

INTRODUCTION

For the needs of this project AutoCAD R.14 was used.

AutoCAD is now widely used by Architects, Civil engineers Mechanical engineer etc. for the production of different kind of drawings.

The drawing capabilities of the AutoCAD are almost limitless and even a good user doesn't get to know them all. AutoCAD needs good practice so as the user to get good skills, resulting in an increase of the quality of work and the productivity. This doesn't mean that AutoCAD is difficult to be learned. It's just a valuable tool in our hands which does only what we tell it to do.