FINAL YEAR PROJECT REPORT

ADVANCED DIPLOMA IN CIVIL ENGINEERING

SCHOOL OF ENGINEERING

MARA INSTITUTE OF TECHNOLOGY

SHAH ALAM , SELANGOR D. E.

TITLE : COMPUTATION OF PRIMARY

CONSOLIDATION SETTLEMENT

BASED ON BOUSSINESQ AND

WESTERGAARD THEOREMS .

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ABSTRACT

This project describes a computer program which calculates the primary consolidation settlement and immediate settlement .

The program formulation has taken into consideration the basis understanding in settlement analysis and thus it would give an estimation of settlement based on this considerations .

This computer program is written in QUICK BASIC and runs in any personal computers . It can be used as a tool for practising engineers in computing simple settlement problem .

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TABLE OF CONTENTS

1.0   INTRODUCTION

1.1   INTRODUCTION STATEMENT

It is known that one outstanding features of microcomputers is its capabilities of solving routine and repetitive calculations efficiently . Due to this fact , microcomputers can be use in helping its users to perform tedious and routine tasks which is usually required in most engineering analysis .

In Geo Mechanics , problems such as settlement analysis requires repetitive calculations , thus with a reliable program , the microcomputer can serve as a tool in performing the analysis .