INSTITUT TEKNOLOGI MARA
MARA INSTITUTE OF TECHNOLOGY
Shah Alam, Selangor, Malaysia. Tel: 362311-3 362721 6

Tarikh:
Surat Tuan:
Surat Kami:

A Report submitted to the School of Engineering, Institut Teknologi MARA in partial fulfillment of the Requirements for the Advance Diploma in Civil Engineering.

Signed:

(Mahmud Yusoff)
Student

Shah Alam, Selangor.
Date: 16/11/81

Approved:

(Maklisur Rahman Choudhury)
Senior Lecturer
(Project Advisor)

Shah Alam, Selangor.
Date: 18/11/81

Wan Mahmood Wan Abdul Majid
Ketua Kursus
Jabatan Kejuruteraan Awam
Ketua Kursus,
Kejuruteraan Awam,
Kajian Kejuruteraan,
Institut Teknologi MARA,
Shah Alam Selangor.

SYNOPSIS

Shah Alam is in the process of development. At this stage drainage forms one of the problem. Floods do occur in the low land areas and sedimentation or siltation at certain main drains.

The existing planning, design and improvement of surface drainage of Shah Alam were studied. The purpose of this study is to suggest further necessary improvement to the existing system. The study and improvement suggested will cover Shah Alam area in general and Section 4 in particular.

The improvements to the hydraulic section and structures were designed on the basis of rainstorm frequency of one in 100 years return period using the Modified Rational Method as derived by DID for Urban Drainage Design.

Measures and Precautions were also recommended to minimise siltation.

ACKNOWLEDGEMENTS

I am indeed very thankful to, Department of Civil Engineering ITM for giving me an opportunity to under take this study which would be of great help in my future carrier.

I would like to extend my sincere and heartiest thanks to Mr. Maklisur Rahman Choudhury my project supervisor, for whom I was very much indebted for his guidance towards the completion of this thesis.

I would also like to acknowledge the following Departments for providing the relevant information for the study:-

i) Perbadanan Kemajuan Negeri Selangor,
Shah Alam.

ii) Jabatan Parit dan Taliair,
Selangor.

iii) Malaysia International
Consultants Sdn. Bhd., (MINCO)

Last but not the least to Cik Rafeah Danuri, the typist and my colleagues for their assistance to make this thesis successful.

CONTENTS