

## SUMMARY

This project report critically examines drainage in local housing developments. An introduction is first presented which summarizes the need for drainage, gives a review of factors affecting local housing developments, summarizes the cost of drainage systems in local housing developments and gives a survey of local flooding problems. It was found that the cost of drainage systems represented a significant percentage of the overall cost of infra-structural development. It was also concluded that the problem of flooding in Trinidad and Tobago is a recurrent one and is quite widespread with damaging effects.

This is followed by a chapter on design which seeks to establish principles for proper drainage design. It examines hydrologic and hydraulic design methods and other factors to be considered in the design of a drainage system. The requirements of local approving agencies and a survey of drainage designs in Trinidad and Tobago is also presented. It was found that of the many design techniques available, few were employed locally. In many areas, the designs carried out locally were found to be sub-standard. The attitude of the public and even some engineers toward drainage was found to be lacking.

ACKNOWLEDGEMENTS

A chapter on maintenance follows which highlights the experiences of local organisations involved in drainage maintenance. The major problems encountered by these organisations were shortage of selected staff, improper design and construction practice, the poor attitude of the public toward drainage and the complex process of allocation and release of funds to public sector organisations.

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Pertinent conclusions and recommendations are drawn in the final chapter of the report.