

HIGHWAY DESIGN MANUAL

**COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY AUTHORITY**



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INTRODUCTION

This Highway Design Manual includes the basic highway design policies and procedures of the Department of Transportation and Public Works. It will provide guidance to the Department personnel, its outside consultants, and other Commonwealth and Municipal agencies for the design of safe, efficient and attractive highways. The manual incorporates the most recent design concepts and practices developed by the American Association of State Highway and Transportation Officials, the Federal Highway Administration and the Transportation Research Board. Traffic safety aspects are emphasized throughout on such features as geometric design, cross section elements, structures, traffic control devices, safety barriers, location of utilities, highway lighting, and pedestrian facilities.

The manual will aid in obtaining consistency and uniformity in the application of standards and policies to those agencies engaged in highway design. The manual will improve the highway design process from the preliminary stages through the development of final construction plans. It will promote the design of safer highways and appurtenances which will contribute to lower accident rates in the future.

Design procedures and criteria are subject to change or additions which will be incorporated in this manual by revisions issued and signed by the Secretary of the Department of Transportation and Public Works.

ACKNOWLEDGEMENTS

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Finally, much credit for the content of the manual must go to the individuals of the Highway Authority and Public Works Areas who contributed to the working drafts and to those who provided excellent review comments in those drafts.

ORGANIZATION OF THE DESIGN MANUAL

This Manual comprises twenty one (21) chapters, each one subdivided into sections and subsections.

A decimal numbering system is used to identify each chapter, section and subsection. For example:

2-08 identifies section 8 of chapter 2.

3-04.02 identifies subsection 2 of section 4 of chapter 3.

Tables within each chapter are identified by the chapter number and a digit as for example Table 5-1.

Figures within each chapter are identified by the chapter number and a letter as for example Figure 6-A.

Charts within each chapter are identified by chapter number and a Roman number as for example Chapter 4-I.

The pages within each chapter are numbered consecutively and identified by the chapter number and page number within the chapter as for example page 7-8.

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