



ROADSIDE DESIGN GUIDE

4th Edition 2011

AMERICAN ASSOCIATION OF
STATE HIGHWAY AND
TRANSPORTATION OFFICIALS
AASHTO
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1 Aashto Roadside Design Guide

National Highway Institute (U.S.)



1 Aashto Roadside Design Guide:

Roadside Design Guide American Association of State Highway and Transportation Officials. Task Force for Roadside Safety, 2011 The Roadside Design Guide presents a synthesis of current information and operating practices related to roadside safety and is written in dual units metric and U S Customary This book is a guide It is not a standard nor is it a design policy It is intended to use as a resource document from which individual highway agencies can develop standards and policies Although much of the material in the guide can be considered universal in its application several recommendations are subjective in nature and may need modification to fit local conditions However it is important that significant deviations from the guide be based on operational experience and objective analysis The 2011 edition of the AASHTO Roadside Design Guide has been updated to include hardware that has met the evaluation criteria contained in the National Cooperative Highway Research Program NCHRP Report 350 Recommended Procedures for the Safety Performance Evaluation of Highway Features and begins to detail the most current evaluation criteria contained under the Manual for Assessing Safety Hardware 2009 MASH For the most part roadside hardware tested and accepted under older guidelines that are no longer applicable has not been excluded in this edition AASHTO website **Route 5 Corridor, MHTD Project No. J5PO694**, 1997 Highway Design Manual California. Department of Transportation, 1990 **Accident Mitigation Guide for Congested Rural Two-lane Highways** Kay Fitzpatrick, 2000 Public Roads, 2001-07 **Federal Register**, 1995-07-05 *Roadside Safety Features* 1991 National Research Council (U.S.). Transportation Research Board, 1991 *CDOT Design Guide: Project development manual* Colorado. Department of Transportation, 1995 **Highway Drainage Guidelines**, 1999 **Guidelines for Guard Rail Installation on Embankments and at Bridge Ends** Charles E. Dare, 1992 "Code of Massachusetts regulations, 2006", 2006 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **NHI Catalog** National Highway Institute (U.S.), 2010 **The Massachusetts register**, 1995 "**Code of Massachusetts regulations, 2011**", 2011 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 Progress Report National Cooperative Highway Research Program, 2001 **Human Factors Guidelines for Road Systems** John L. Campbell, Christian M. Richard, Jerry L. Graham, National Cooperative Highway Research Program, 2008 NCHRP report 600 explores human factors principles and findings for consideration by highway designers and traffic engineers The report is designed to help the nonexpert in human factors to consider more effectively the roadway user s capabilities and limitations in the design and operation of highway facilities **An Excerpt from the Michigan Manual of Uniform Traffic Control Devices** Michigan State Advisory Committee on the Michigan Manual of Uniform Traffic Control Devices, 2001 *Illinois Design and Environment Manual* Illinois. Department of Transportation, 2002 **Evaluation of Safety Treatments for Roadside Culverts** Francisco Daniel B. Albuquerque, 2009

Roadside cross drainage culverts have been found to impact vehicle accident injury levels. Designers have commonly used three safety treatments to protect errant drivers from culvert accidents. These treatments have included culvert extension, guardrail installation, and grating. In order to define which safety treatment is the most appropriate, benefit cost analysis has been used. Accident cost reduction is used to estimate societal gains earned by using any safety treatment. The purpose of this study was to estimate accident costs for a wide range of roadway and roadside characteristics so that designers can calculate benefit cost ratios for culvert safety treatment options under any particular scenario. This study began with conducting a parametric study in order to find variables which have significant impact on accident cost changes. The study proceeded with highway scenario modeling which included scenarios with different values for combinations of roadway and roadside variables. These variables were chosen based upon findings from the parametric study and their values were assigned based upon highway classification. This study shows that the use of different culvert safety treatments should be flexible to roadway and roadside characteristics. It also shows that culvert extension and grating were the safety treatments found to produce the lowest accident costs for all highway scenarios modeled. Therefore, it is believed that the expanded adoption of culvert extension and culvert grates can improve overall highway safety. *Chaney v. Department of Transportation, 447 MICH 145 (1994), 1994-96282*

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