



# ROADSIDE DESIGN GUIDE

4<sup>th</sup> Edition 2011

AMERICAN ASSOCIATION OF  
STATE HIGHWAY AND  
TRANSPORTATION OFFICIALS  
**AASHTO**  
FOR ADVANCING TRANSPORTATION

# 1 Aashto Roadside Design Guide

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## 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Safety Hardware 2009 MASH For the most part roadside hardware tested and accepted under older guidelines that are no longer applicable has not been excluded in this edition AASHTO website **Route 5 Corridor, MHTD Project No. J5PO694** ,1997 *Highway Design Manual* California.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 Federal Register ,1995-07-05 Public Roads ,2001-07 **CDOT Design Guide: Project development manual** Colorado. Department of Transportation, 1995 **Accident Mitigation Guide for Congested Rural Two-lane Highways** Kay Fitzpatrick, 2000 Roadside Safety Features 1991 National Research Council (U.S.). Transportation Research Board, 1991 "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 **Chaney v. Department of Transportation, 447 MICH 145 (1994)** ,1994 96282 **The Massachusetts register** ,1995 **NHI Catalog** National Highway Institute (U.S.), 2010 **"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 *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 *McGraw-Hill Construction Locator (McGraw-Hill Construction Series)* Joseph A. MacDonald, 2007-01-02 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product QUICKLY LOCATE COMPLEX CODES REQUIREMENTS AND LAWS FOR EVERY BUILDING JOB If you re a building professional here s your chance to slash untold hours of bureaucratic legwork from your schedule with the McGraw Hill Construction Locator Packed with a wealth of time saving and budget preserving solutions this unique 600 page resource delivers clear where to find it directions to Building codes Building documents Construction standards Project specifications

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*Illinois Design and Environment Manual* Illinois. Department of Transportation,2002

Highway Drainage Guidelines ,1999

*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 used accident cost reduction 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

*Development of Roadside Safety Data Collection Plan* King K. Mak,1994

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