Native plants are a foundation of ecological function, affecting soil conservation, wildlife habitat, plant communities, invasive species, and water quality. Establishing locally-adapted, self-sustaining plant communities can also support transportation goals for safety and efficiency. Past obstacles to establishing native plant communities on roadides have been technical, informational, and organizational. Effective strategies and practical techniques for revegetating the disturbed conditions with limited resources must be made available to practitioners. Multiple disciplines, ranging from engineering to soil science, ecology, botany, and wildlife science, must be able to work cooperatively, not in isolation. This report offers an integrated approach to facilitate the successful establishment of native plants along roadsides and other areas of disturbance associated with road modifications. It guides readers through a comprehensive process of: 1) initiating, 2) planning, 3) implementing, and 4) monitoring a roadside revegetating project with native plants.

A Policy on Geometric Design of Highways and Streets, 2001

AASHTO Interim Guide for Design of Pavement Structures

A Policy on Geometric Design of Highways and Streets

*The Transit Street Design Guide sets a new vision for how cities can harness the immense potential of transit to create active and efficient streets in neighborhoods and downtowns alike. Building on the Urban Street Design Guide and Urban Bikeway Design Guide, the Transit Street Design Guide details how reliable public transportation depends on a commitment to transit at every level of design. Developed through a new peer network of NACTO members and transit agency partners, the Guide provides street transportation departments, transit operating agencies, leaders, and practitioners with the tools to actively prioritize transit on the street.“—Site Web de NACTO.
Where To Download Aashto Highway Design Guide

Mechanistic-empirical Pavement Design Guide

This Supplement includes alternative design procedures that can be used in place of or in conjunction with the American Association of State Highway and Transportation Officials (AASHTO) "Guide for the Design of Pavement Structures", Part II, Section 3.2, Rigid Pavement Design, and Section 3.3, Rigid Pavement Joint Design. The Supplement contains the recommendations from National Cooperative Highway Research Program (NCHRP) Project 1-30, modified based on the results of the verification study conducted using the Long Term Pavement Performance (LTPP) database.

AASHTO Guide for Geometric Design of Transit Facilities on Highways and Streets


Guide for the Planning, Design, and Operation of Pedestrian Facilities

Roadside Design Guide


NACTO's Urban Bikeway Design Guide quickly emerged as the preeminent resource for designing safe, protected bikeways in cities across the United States. It has been completely re-designed with an even more accessible layout. The Guide offers updated graphic profiles for all of its bicycle facilities, a subsection on bicycle boulevard planning and design, and a survey of materials used for green color in bikeways. The Guide continues to build upon the fast-changing state of the practice at the local level. It responds to and accelerates innovative street design and practice around the nation.

A Policy on Design Standards--interstate System

Gravel Roads

Up-to-date coverage of bridge design and analysis—revised to reflect the fifth edition of the AASHTO LRFD specifications Design of Highway Bridges, Third Edition offers detailed coverage of engineering basics for the design of short- and medium-span bridges. Revised to conform with the latest fifth edition of the American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications, it is an excellent engineering resource for both professionals and students. This updated edition has been reorganized throughout, spreading the material into twenty shorter, more focused chapters that make information even easier to find and navigate. It also features: Expanded coverage of computer modeling, calibration of service limit states, rigid method system analysis, and concrete shear. Information on key bridge types, selection principles, and aesthetic issues. Dozens of worked problems that allow techniques to be applied to real-world problems and design specifications. A new color insert of bridge photographs, including examples of historical and aesthetic significance. New coverage of the "green" aspects of recycled steel. Selected references for further study. From gaining a quick familiarity with the AASHTO LRFD specifications to seeking broader guidance on highway bridge design—Design of Highway Bridges is the one-stop, ready reference that puts information at your fingertips, while also serving as an excellent study guide and reference for the U.S. Professional Engineering Examination.

LRFD Guide Specifications for the Design of Pedestrian Bridges

Chapter one. Introduction -- Chapter two. Results of initial survey of state departments of transportation -- Chapter three. Background information on project development and design methods -- Chapter four. Profiles of states with practical design policies -- Chapter five. Findings, conclusions, and suggested research.

Transit Street Design Guide

Excellence in Highway Design

The HCM 2010 significantly enhances how engineers and planners assess the traffic and environmental effects of highway projects by: Providing an integrated multimodal approach to the analysis and evaluation of urban streets from the points of view of automobile drivers, transit passengers, bicyclists, and pedestrians. Addressing the proper application of microsimulation analysis and the evaluation of the results. Examining active traffic management in relation to demand and capacity. And exploring specific tools and generalized service volume tables to assist planners in quickly sizing future facilities. The four-volume format provides information at several levels of detail, to help users more easily apply and understand the concepts, methodologies, and potential applications.

A Policy on Geometric Design of Highways and Streets, 2011

Roadside Revegetation

Guidelines for Geometric Design of Very Low-volume Local Roads (ADT \( \leq \) Symbol 400)

The NACTO Urban Street Design Guide shows how streets of every size can be reimagined and reoriented to prioritize safe driving.
and transit, biking, walking, and public activity. Unlike older, more conservative engineering manuals, this design guide emphasizes the core principle that urban streets are public places and have a larger role to play in communities than solely being conduits for traffic. The well-illustrated guide offers blueprints of street design from multiple perspectives, from the bird’s eye view to granular details. Case studies from around the country clearly show how to implement best practices, as well as provide guidance for customizing design applications to a city’s unique needs. Urban Street Design Guide outlines five goals and tenets of world-class street design: Streets are public spaces. Streets play a much larger role in the public life of cities and communities than just thoroughfares for traffic. Great streets are great for business. Well-designed streets generate higher revenues for businesses and higher values for homeowners. Design for safety. Traffic engineers can and should design streets where people walking, parking, shopping, bicycling, working, and driving can cross paths safely. Streets can be changed. Transportation engineers can work flexibly within the building envelope of a street. Many city streets were created in a different era and need to be reconfigured to meet new needs. Act now! Implement projects quickly using temporary materials to help inform public decision making. Elaborating on these fundamental principles, the guide offers substantive direction for cities seeking to improve street design to create more inclusive, multi-modal urban environments. It is an exceptional resource for redesigning streets to serve the needs of 21st century cities, whose residents and visitors demand a variety of transportation options, safer streets, and vibrant community life.

Scenic Byways: States' Use of Geometric Design Standards

Highway Functional Classification


Adapting the AASHTO Pavement Design Guide to New York State Conditions

Park Road Standards

Federal-aid Policy Guide

TRB's National Cooperative Highway Research Program (NCHRP) Report 672: Roundabouts: An Informational Guide - Second Edition explores the planning, design, construction, maintenance, and operation of roundabouts. The report also addresses issues that may be useful in helping to explain the trade-offs associated with roundabouts. This report updates the U.S. Federal Highway Administration's Roundabouts: An Informational Guide, based on experience gained in the United States since that guide was published in 2000.

A Guide for Achieving Flexibility in Highway Design

Roadway Lighting Design Guide

The purpose of this manual is to provide clear and helpful information for maintaining gravel roads. Very little technical help is available to small agencies that are responsible for managing these roads. Gravel road maintenance has traditionally been "more of an art than a science" and very few formal standards exist. This manual contains guidelines to help answer the questions that arise concerning gravel road maintenance such as: What is enough surface crown? What is too much? What causes corrugation? The information is as nontechnical as possible without sacrificing clear guidelines and instructions on how to do the job right.

AASHTO Transportation Glossary

AASHTO Guide for Design of Pavement Structures (v2).

Roadside Design Guide

Highway capacity manual 2010

Supplement to the AASHTO Guide for Design of Pavement Structures

This document presents concepts for enhancing safety in the operation and management of highways. It presents good design and operational practices for numerous design elements and situations for all types of roads.

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