

SELECTED "TOOLS OF THE TRADE" for TRANSPORTATION DESIGN

Title	Contents
<p>AASHTO "Green Book" – A Policy on Geometric Design of Highways and Streets, 5th ed., November 2004</p> <p>http://bookstore.transportation.org/item_details.aspx?ID=110</p>	<p>Contains the latest design practices in universal use as the standard for highway geometric design. Serves as a guidance document for roadway design, including information on functional classification, the selection of a design vehicle, highway capacity, access management, pedestrian and bicycle facility design, safety guidelines, sight distance and curve guidelines, pavement type, lane width, shoulders, clearance, drainage, medians, frontage roads, on-street parking, interchanges, and detailed design guidelines for roadways within each functional classification. The <i>Green Book</i> provides a baseline standard for use in road design, while also allowing the design engineer flexibility within a range of standards.</p>
<p>FHWA Flexibility in Highway Design, 1998</p> <p>http://www.fhwa.dot.gov/environment/flex/foreword.htm</p>	<p>Highways need to incorporate community values – scenic, aesthetic, historic, cultural, and environmental -- and be safe, efficient, effective mechanisms for moving people and goods. Written for highway engineers and project managers who want to learn more about the <u>design flexibility</u> already available to them in the "Green Book," this book underscores successful approaches used in other highway projects. Citizens who want to gain a better understanding of the highway design process and the flexibility possible within the design process will find this publication helpful.</p>
<p>AASHTO - A Guide for Achieving Flexibility in Highway Design, 1st Edition, 2004</p> <p>https://bookstore.transportation.org/Item_details.aspx?id=103</p>	<p>This AASHTO Guide shows highway designers how to think flexibly, how to recognize the many choices and options they have, and how to arrive at the best solution for the particular situation or context. Flexible design does not require a fundamentally new design process and can be integrated into the existing transportation culture. This publication represents a major step toward institutionalizing CSS into state transportation departments and other agencies charged with transportation project development. In conjunction with the AASHTO "Green Book", this provides a detailed technical resource for citizens.</p>

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<p><i>AASHTO Guide for the Planning, Design, and Operation of Pedestrian Facilities</i>, 1st Edition, 2004</p> <p>https://bookstore.transportation.org/item_details.aspx?id=119</p>	<p>The Pedestrian Guide provides information on the planning, design, and operation of pedestrian facilities along streets and highways; and focuses on identifying effective measures for accommodating pedestrians on public rights-of-way. The guide also recognizes the profound effect that land use planning and site design have on pedestrian mobility. Together with the companion bicycle facility guide discussed below, the pedestrian guide is an important companion to the "Green Book."</p>
<p><i>AASHTO Guide for the Development of Bicycle Facilities</i>, 1999</p> <p>http://www.sccrtc.org/bikes/AASHTO_1999_BikeBook.pdf</p>	<p>The Bicycle Guide provides information on the development of new facilities to enhance and encourage safe bicycle travel including planning considerations, design and construction guidelines, and operation and maintenance recommendations. This guide provides information to help accommodate bicycle traffic in most riding environments. It does not set forth strict standards, and instead presents principles for attaining good design sensitive to the needs of both bicyclists and other highway users.</p>
<p><i>AASHTO Roadside Design Guide</i>, 3rd Edition, 2006</p> <p>https://bookstore.transportation.org/item_details.aspx?ID=148</p>	<p>The Roadside Design Guide synthesizes current information and operating practices for roadside safety, with emphasis on safety treatments that can minimize the likelihood of serious injuries when a motorist leaves the roadway. For citizens, this guide is helpful in understanding the design decisions surrounding areas outside the pavement edge of the roadway, but within the highway right-of-way.</p>
<p><i>FHWA Manual on Uniform Traffic Control Devices (MUTCD)</i>, 2003 with revisions</p> <p>http://mutcd.fhwa.dot.gov/</p>	<p>The Manual defines the standards used by road managers nationwide to install and maintain traffic control devices on all streets and highways. This includes signs, traffic signals, pavement markings, railroad crossing signals, and temporary traffic control.</p>