



① Left-Turn Arrow  
(Lane-use pavement marking)

② Median Nose Delineation

③ Wrong-Way Arrow  
Pavement Marking

④ Raised Channelization

⑤ Channelization Accomplished  
Using Retroreflective  
Pavement Markings

⑥ Raised Crossing Island  
for Pedestrians

✳ Optional Signs  
(For medians less than 30ft wide)

# Intersection Channelization Design Guide

**Kay Fitzpatrick, Marcus Brewer, William  
L. Eisele**



## **Intersection Channelization Design Guide:**

*Intersection Channelization Design Guide* Timothy R. Neuman, National Research Council (U.S.). Transportation Research Board, 1985      *Intersection Channelization Design Guide*, 1985      **Highway Safety Design and Operations Guide, 1997**, 1997 A replacement to the publication entitled Highway design and operational practices related to highway safety also known as The Yellow Book and most recently published in 1974      Highway Safety Design and Operations Guide, 3rd Edition,      **Intersection Geometric Design and Operational Guidelines for Older Drivers and Pedestrians** L. K. Staplin, 1997      *Guide for the Geometric Design of Driveways*, 2010 TRB's National Cooperative Highway Research Program NCHRP Report 659 Guide for the Geometric Design of Driveways explores guidelines related to the geometric design of driveways The report includes driveway related terms and definitions an examination of basic geometric controls a summary of access spacing principles and detailed discussions of various geometric design elements Material related to and supporting the contents of NCHRP Report 659 including an extensive review of literature has been published as NCHRP Web Only Document 151 Geometric Design of Driveways      **Design Guidelines for At-grade Intersections Near Highway-railroad Grade Crossings** Mark Douglas Wooldridge, 2000      *Accident Mitigation Guide for Congested Rural Two-lane Highways* Kay Fitzpatrick, 2000      **Median Intersection Design** Douglas W. Harwood, 1995      *Design, Operation, and Safety of At-grade Crossings of Exclusive Busways* Kimberly A. Eccles, Herbert S. Levinson, 2007 TRB's Transit Cooperative Research Program TCRP Report 117 Design Operation and Safety of At Grade Crossings of Exclusive Busways explores planning designing and operating various kinds of busways through roadway intersections The report examines at grade intersections along busways within arterial street medians physically separated side aligned busways busways on separate rights of way and bus only ramps The intersections highlighted include highway intersections midblock pedestrian crossings and bicycle crossings Appendixes A through I of the contractor's final report were published as TCRP Web Only Document 36 Publisher's website      *Design Guidance for Intersection Auxiliary Lanes* Kay Fitzpatrick, 2014 TRB's National Cooperative Highway Research Program NCHRP Report 780 Design Guidance For Intersection Auxiliary Lanes expands on guidance provided in A Policy on Geometric Design of Highways and Streets the Green Book published by the American Association of State Highway and Transportation Officials AASHTO This report highlights information regarding bypass lanes channelized right turn lanes deceleration and taper length design and capacity of multiple left turn lanes and alternative intersection designs Publisher description      *A Policy on Geometric Design of Highways and Streets, 2011* American Association of State Highway and Transportation Officials, 2011      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 [Channelization Guidelines to Accommodate Longer and Wider Trucks at At-grade Intersections](#) Nancy Straub, Daniel B. Fambro, John Michael Mason (Jr.), 1986 This report addresses issues concerning the design of at grade intersections to accommodate the turning characteristics of the various longer and wider truck configurations that were introduced into the traffic stream by 1982 Federal and State legislation The objectives of this research were to complete a literature review of research concerning truck sizes turning characteristics and channelization determine encroachment and swept path width for various combinations of design vehicle curb radii and degree of turn and develop guidelines for design operation and channelization of at grade intersections to accommodate these larger vehicles The research procedure followed was to select five typical large design vehicles WB 50 WB 55 WB 70 WB 100 WB 105 simulate their paths through several degrees of turn at different turning radii create a table listing their behavior at specific corner curb radii and develop guidelines specifying conditions where channelization is feasible Information gathered concerning the turning characteristics of the longer and wider design vehicles and turning templates depicting their minimum turning paths are detailed in the first section of the study results The second part of the results contains several tables that detail the interaction of each design vehicle with the degree of turn and curb radius These tables list such things as cross street width occupied swept path width conditions where channelization is feasible and minimum designs for turning roadways

**Left-turn Accommodations at Unsignalized Intersections** Kay Fitzpatrick, Marcus Brewer, William L. Eisele, 2013 TRB s National Cooperative Highway Research Program NCHRP Report 745 Left Turn Accommodations at Unsignalized Intersections presents guidance for the selection and design of left turn accommodations at unsignalized intersections The report includes 11 case studies of typical situations that illustrate the use of the guidance publisher s description *A Guide for Achieving Flexibility in Highway Design*, 2004 Context sensitive solutions CSS reflect the need to consider highway projects as more than just transportation facilities Depending on how highway projects are integrated into the community they can have far reaching impacts beyond their traffic or transportation function CSS is a comprehensive process that brings stakeholders together in a positive proactive environment to develop projects that not only meet transportation needs but also improve or enhance the

community Achieving a flexible context sensitive design solution requires designers to fully understand the reasons behind the processes design values and design procedures that are used 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 It also strives to emphasize that flexible design does not necessarily entail a fundamentally new design process but that it 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

Facilities Development Manual Wisconsin. Department of Transportation,1979      **Flexibility in Highway Design** ,1997      *Intersection Safety Issue Briefs* ,2004      Safety Effectiveness of Highway Design Features: Intersections ,1992

## The Enigmatic Realm of **Intersection Channelization Design Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Intersection Channelization Design Guide** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

<https://staging.conocer.cide.edu/book/uploaded-files/index.jsp/manitou%20mlt%20626%20workshop%20manual.pdf>

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