

California Manual on Uniform Traffic Control Devices

for Streets and Highways

(FHWA's MUTCD 2003 Edition,
as amended for use in California)



STATE OF CALIFORNIA
BUSINESS, TRANSPORTATION AND HOUSING AGENCY
DEPARTMENT OF TRANSPORTATION

(This page left intentionally blank)



California **M**anual on **U**niform **T**raffic **C**ontrol **D**evices

for Streets and Highways

(FHWA's MUTCD 2003 Edition, as amended for use in California)

(This page left intentionally blank)

STATE OF CALIFORNIA
BUSINESS, TRANSPORTATION AND HOUSING AGENCY
DEPARTMENT OF TRANSPORTATION

California
Manual on Uniform
Traffic Control Devices
for Streets and Highways
(FHWA's MUTCD 2003 Edition,
as amended for use in California)

Issued by:



DIVISION OF TRAFFIC OPERATIONS

September 26, 2006

ARNOLD SCHWARZENEGGER
Governor

SUNNE WRIGHT McPEAK
Secretary, Business, Transportation and Housing Agency

WILL KEMPTON
Director, Department of Transportation

(This page left intentionally blank)

The Manual on Uniform Traffic Control Devices (MUTCD) is approved by the Federal Highway Administrator as the National Standard in accordance with Title 23 U.S. Code, Sections 109(d), 114(a), 217, 315, and 402(a), 23 CFR 655, and 49 CFR 1.48(b)(8), 1.48(b)(33), and 1.48(c)(2).

The California Manual on Uniform Traffic Control Devices (California MUTCD) is published by the State of California, Department of Transportation and is issued to adopt uniform standards and specifications for all official traffic control devices, in accordance with Section 21400 of the California Vehicle Code.

This manual is current as of the date of publication on the cover. However, it may be necessary from time to time to modify, change or adopt new standards and specifications for traffic control devices and/or issue errata or editorial changes to the manual. To ensure that the traffic control device practitioner is accessing the most current information regarding traffic control device topics for California, the practitioner is advised to always reference the California MUTCD web site.

The California MUTCD, California Sign Specifications and other publications and related current information is available on the Internet at the following web link:

<http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/>

Addresses for Publications Referenced in the ~~MUTCD~~ California MUTCD

American Association of State Highway and Transportation Officials (AASHTO)
444 North Capitol Street, NW, Suite 249
Washington, DC 20001
www.transportation.org

American Railway Engineering and Maintenance-of-Way Association (AREMA)
8201 Corporate Drive, Suite 1125
Landover, MD 20785-2230
www.arena.org

California Building Standards Code
International Conference of Building Officials
5360 South Workman Mill Road
Whittier, CA 90601
www.icbo.org

California Code Publications &
California Law
<http://www.leginfo.ca.gov/calaw.html>

California Department of Transportation Publications
Publications Distribution Unit
1900 Royal Oaks Drive
Sacramento, CA 95815-3800
<http://caltrans-opac.ca.gov/publicat.htm>

California Vehicle Code
Department of Motor Vehicles
Sacramento, California
<http://www.dmv.ca.gov/pubs/pubs.htm>

Federal Highway Administration Report Center
Facsimile number: 301.577.1421
report.center@fhwa.dot.gov

Illuminating Engineering Society (IES)
120 Wall Street, Floor 17
New York, NY 10005
www.iesna.org

Institute of Makers of Explosives
1120 19th Street, NW, Suite 310
Washington, DC 20036-3605
www.ime.org

Institute of Transportation Engineers (ITE)
1099 14th Street, NW, Suite 300 West
Washington, DC 20005-3438
www.ite.org

International Organization for Standards
c/o Mr. Gerard Kuso
Austrian Standards Institute
Heinestrasse 38
Postfach 130
A-1021
Wien, Austria
www.iso.ch

ISEA - The Safety Equipment Association
1901 North Moore Street, Suite 808
Arlington, VA 22209
www.safetysystem.org

National Committee on Uniform Traffic Laws and Ordinances (NCUTLO)
107 South West Street, Suite 110
Alexandria, VA 22314
www.ncutlo.org

Occupational Safety and Health Administration (OSHA)
U.S. Department of Labor
200 Constitution Avenue, NW
Washington, DC 20210
www.osha.gov

Transportation Research Board (TRB)
The National Academies
2101 Constitution Avenue, NW
Washington, DC 20418
www.nas.edu/trb

U.S. Architectural and Transportation Barriers Compliance Board (The U.S. Access Board)
1331 F Street, NW, Suite 1000
Washington, DC 20004-1111
www.access-board.gov

Acknowledgments

The Federal Highway Administration gratefully acknowledges the valuable assistance that it received from the National Committee on Uniform Traffic Control Devices and its over 200 voluntary members in the development of this Manual.

The Department of Transportation gratefully acknowledges the Federal Highway Administration's California Division, the California Traffic Control Devices Committee (CTCDC) members, staff from various cities and counties in California and the Department's headquarters and districts staff for providing guidance and direction in the development of this Manual. Information regarding the California portion (blue text and/or blue border line) of this Manual can be obtained by writing to:

State of California
Department of Transportation,
Chief, Division of Traffic Operations, MS-36
1120 N Street, Sacramento, CA 95814.

NOTE: The contents of this publication are not copyrighted. They may be reprinted freely.

The California MUTCD is available on the Department of Transportation Web Page at
<http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/>.

(This page left intentionally blank)

The California text additions and enhancements are incorporated at appropriate locations and shown in blue color font with a blue margin line on the right to keep them distinct from MUTCD text.

For California topics where there is no corresponding section, figure or table in the MUTCD, the California MUTCD gives a number that begins with 101 for that section, figure or table and increases in sequence, followed with a "(CA)" to indicate that this is a California assigned section, figure or table number. The blue margin line on the right is also added to all California figures and tables to keep them distinct from the MUTCD figures and tables.

The MUTCD figures and tables that have been modified or added to, in the California MUTCD retain the same MUTCD Figure or Table number but include "(CA)" to indicate that it is the California version of the MUTCD Figure or Table.

This single document, being more comprehensive and easier to use, will lead to greater uniformity in application of traffic control devices in California, consistent with nationwide practices, by encouraging the traffic control device practitioners to use. This increased uniformity will improve transportation safety and mobility for both California residents and visitors, alike.

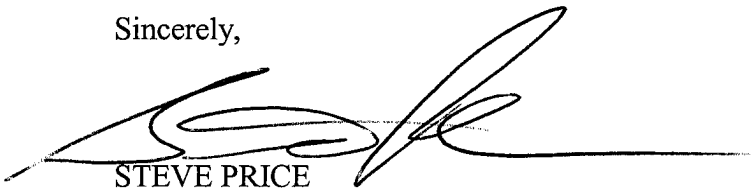
The Department gratefully acknowledges the FHWA's California Division, the CTCDC members, staff from various cities and counties and the Department's headquarters and districts staff for providing guidance and direction in the development of this document.

The Department hereby requests FHWA's approval of the attached California MUTCD (FHWA's MUTCD 2003 Revision 1, as amended for use in California). This document is also now posted on the Internet at the following web site:

<http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/>

The Department encourages State and local agencies to start using this document immediately. If you have any questions, please contact Mr. Johnny Bhullar of my staff, at (916) 654-7312 or via e-mail at johnny_bhullar@dot.ca.gov.

Sincerely,



STEVE PRICE
Interim Division Chief
Division of Traffic Operations

Attachment

Sample Page Sketches Showing Format Explanations

Manual title and exact version of FHWA's MUTCD that it incorporates

Page number

California MUTCD
(FHWA's MUTCD 2003 Revision 1, as amended for use in California)

Page 2B-1

CHAPTER 2B. REGULATORY SIGNS

Section 2B.01 Application of Regulatory Signs
Standard:
Regulatory signs shall be used to inform road users of selected traffic laws or regulations and indicate the applicability of the legal requirements.
Regulatory signs shall be installed at or near where the regulations apply. The signs shall clearly indicate the requirements imposed by the regulations and shall be designed and installed to provide adequate visibility and legibility in order to obtain compliance.
Regulatory signs shall be retroreflective or illuminated to show the same shape and similar color by both day and night, unless specifically stated otherwise in the text discussion of a particular sign or group of signs (see Section 2A.08).
The requirements for sign illumination shall not be considered to be satisfied by street, highway, or strobe lighting.
Support:
Orders, ordinances and resolutions by local authorities which affect State highways shall be approved by Department of Transportation.
Signs required for enforcement are normally placed by, and at the expense of, the authority establishing the regulation.
Refer to CVC 21461 for failure to obey a regulatory sign.

Section 2B.02 Design of Regulatory Signs
Support:
Most regulatory signs are rectangular, with the longer dimension vertical. The shapes and colors of regulatory signs are listed in Tables 2A-3, and 2A-4 2A-4(CA), respectively. Exceptions are specifically noted in the following Sections.
The use of educational plaques to supplement symbol signs is described in Section 2A.13.
Guidance:
Changeable message signs displaying a regulatory message incorporating a prohibitory message that includes a red circle and slash on a static sign should display a red symbol that approximates the same red circle and slash as closely as possible.
Support:
Sign design details are contained in FHWA's Standard Highway Signs book and Department of Transportation's California Sign Specifications. See Section 1A.11 for information regarding these publications.
Table 2B-101(CA) shows a list of California Regulatory Signs.
Table 2B-102(CA) shows a list of MUTCD Regulatory Signs.

Section 2B.03 Size of Regulatory Signs
Standard:
The sizes for regulatory signs shall should be as shown in Table 2B-1.
Guidance:
The Freeway and Expressway sizes should be used for higher-speed applications to provide larger signs for increased visibility and recognition.
Option:
The Minimum size may be used on low-speed roadways where the reduced legend size would be adequate for the regulation or where physical conditions preclude the use of the other sizes.
The Oversized size may be used for those special applications where speed, volume, or other factors result in conditions where increased emphasis, improved recognition, or increased legibility would be desirable.
Signs larger than those shown in Table 2B-1 may be used (see Section 2A.12).

Chapter 2B - Regulatory Signs
Part 2 - Signs

September 20, 2006

Unedited MUTCD text shown in "Times New Roman" black color font.

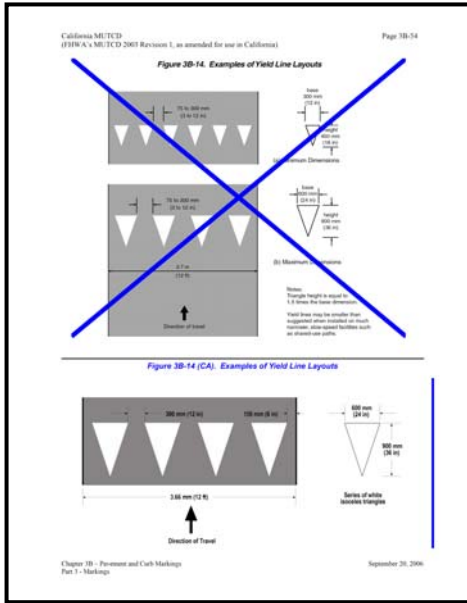
California text shown in "Arial Narrow" blue color font & blue margin line

Edited MUTCD text shown as strikethrough with blue margin line

CA MUTCD chapter number and chapter name
CA MUTCD part number and part name

Date of adoption for CA MUTCD

Sample Page Sketches Showing Format Explanations



Entire MUTCD figure not applicable in California shown with blue X cross-out and the replacing California figure retains the same figure number but adds “(CA)” after the number and has a blue margin line.

California MUTCD (FHWA's MUTCD 2003 Revision 1, as amended for use in California) Page TC4-4

		Page
Section 4K.04	Speed Limit Sign Beacon	4K-2
Section 4K.05	Stop Beacon	4K-3
Section 4K.101(CA)	Warning Beacon Financing	4K-3
Section 4K.102(CA)	Signal Ahead Flashing Beacons	4K-3
Section 4K.103(CA)	Flashing Beacons at School Crossings	4K-4
Section 4K.104(CA)	Speed Limit Sign Beacon	4K-4
Section 4K.105(CA)	Flashing Beacons for Fire Stations	4K-4
Section 4K.106(CA)	Stop Sign Flashing Beacons	4K-4
Section 4K.107(CA)	Flashing Beacons for Bus Stops on Freeway Interchanges	4K-5
CHAPTER 4L. IN-ROADWAY LIGHTS		
Section 4L.01	Application of In-Roadway Lights	4L-1
Section 4L.02	In-Roadway Warning Lights at Crosswalks	4L-1
Section 4L.101(CA)	In-Roadway Warning Lights at Crosswalks Financing and Maintenance-State Highways	4L-2
FIGURES		
CHAPTER 4C. TRAFFIC CONTROL SIGNAL NEEDS STUDIES		
Figure 4C-1	Warrant 2, Four-Hour Vehicular Volume	4C-9
Figure 4C-2	Warrant 2, Four-Hour Vehicular Volume (70% Factor)	4C-9
Figure 4C-3	Warrant 3, Peak Hour	4C-10
Figure 4C-4	Warrant 3, Peak Hour (70% Factor)	4C-10
Figure 4C-101(CA)	Traffic Signal Warrants Worksheet	4C-11
Figure 4C-102(CA)	Traffic Count Worksheet	4C-15
Figure 4C-103(CA)	Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)	4C-16
CHAPTER 4D. TRAFFIC CONTROL SIGNAL FEATURES		
Figure 4D-1	Maximum Mounting Height of Signal Faces Located Between 12 Meters (4 Feet) and 10 Meters (53 Feet) from Stop Line	4D-30
Figure 4D-2	Height and Location of Signal Faces	4D-31
Figure 4D-3	Typical Arrangements of Signal Lenses in Signal Faces	4D-32
Figure 4D-3(CA)	Typical Arrangements of Signal Lenses in Signal Faces	4D-33
Figure 4D-101(CA)	Left-Turn Phasing Methods (Phase Diagrams)	4D-34
Figure 4D-102(CA)	Typical Signal Layout at Offset Intersections, Signalized and Marked as a Single Intersection	4D-35
Figure 4D-103(CA)	Typical Signal Layout (Two Phase Operation)	4D-39
Figure 4D-104(CA)	Typical Signal Layout (Three Phase Operation)	4D-40
Figure 4D-105(CA)	Typical Signal Layout (Five Phase "Dual Left" Operation)	4D-41
Figure 4D-106(CA)	Typical Signal Layout (Six Phase "Opposing" Operation)	4D-42
Figure 4D-107(CA)	Typical Signal Layout (Eight Phase "Quad Left" Operation)	4D-43
Figure 4D-108(CA)	Typical Traffic Signal Installation	4D-44

Part 4 - Highway Traffic Signals September 20, 2006

California sections with no corresponding MUTCD sections begin with 101 and add “(CA)”, increasing in sequence. The text is shown in “Arial Narrow” blue color font & blue margin line.

MUTCD Figure 4D-3 is applicable and is unedited. California figure adds to this MUTCD figure and retains the number 4D-3 adding “(CA)” with a blue margin line.

California figures with no corresponding MUTCD figures begin with 101 and add “(CA)”, increasing in sequence with a blue margin line.

CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ~~MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES~~

INTRODUCTION

Support:

This California Manual on Uniform Traffic Control Devices (California MUTCD) is published by the State of California, Department of Transportation and is issued to adopt uniform standards and specifications for all official traffic control devices in California, in accordance with Section 21400 of the California Vehicle Code.

This California MUTCD incorporates two documents, Federal Highway Administration's Manual on Uniform Traffic Control Devices (2003 Edition Revision 1) dated November 20, 2004 and the MUTCD 2003 California Supplement dated May 20, 2004. It also incorporates all policies on traffic control devices issued by the California Department of Transportation that have been issued since May 20, 2004 and other editorial, errata and format changes that were necessary to update the previous documents.

Standard:

The California MUTCD is hereby adopted as, and shall be the standard for all official traffic control devices, under Section 11340.9(h) of California Government Code and Section 21400 of California Vehicle Code.

Support:

The California MUTCD supersedes and replaces the previously adopted (on May 20, 2004) MUTCD 2003 Edition and the MUTCD 2003 California Supplement as well as Chapters 4, 5, 6, 8, 10, 11, 12, and the traffic signals portion of chapter 9 of the 1996 Caltrans Traffic Manual, as amended, and all previous editions thereof. It does not supersede the Department's Standard Plans, Standard Specifications or the Standard Special Provisions publications.

Department of Transportation publishes Standard Specifications, Standard Special Provisions, Standard Plans and other manuals, which contain specifications and requirements for traffic control devices, including their use and placement, when performing work on State highways. In some cases those specifications and requirements can vary from, and be more stringent than those shown in the California MUTCD.

Standard:

Whenever there is a discrepancy between the specifications and requirements contained in the California MUTCD, and those contained in the publications noted in the previous paragraph for work on State highways, those publications shall govern.

On State highways the California MUTCD shall mean to include the Department of Transportation's Standard Plans, Standard Specifications and Standard Special Provisions publications.

Nothing contained in the California MUTCD shall prevent the Department of Transportation from modifying, changing, or adopting new specifications deemed necessary.

Whenever there is a discrepancy between the specifications and requirements incorporated from FHWA's MUTCD and the California MUTCD amendments, the California MUTCD amendments shall govern.

Traffic control devices shall be defined as all signs, signals, markings, and other devices used to regulate, warn, or guide traffic, placed on, over, or adjacent to a street, highway, pedestrian facility, or bikeway by authority of a public agency having jurisdiction.

The Manual on Uniform Traffic Control Devices (MUTCD) is incorporated by reference in 23 Code of Federal Regulations (CFR), Part 655, Subpart F and shall be recognized as the national standard for all traffic control devices installed on any street, highway, or bicycle trail open to public travel in accordance with 23 U.S.C. 109(d) and 402(a). The policies and procedures of the Federal Highway Administration (FHWA) to obtain basic uniformity of traffic control devices shall be as described in 23 CFR 655, Subpart F.

Any traffic control device design or application provision contained in this Manual shall be considered to be in the public domain. Traffic control devices contained in this Manual shall not be protected by a patent, trademark, or copyright, except for the Interstate Shield and any other items owned by FHWA.

Support:

This Manual is not applicable to privately owned and maintained roads or commercial establishments in California, unless the particular city or county enacts an ordinance or resolution to this effect. Refer to CVC Sections 21100, 21100.1, 21107, 21107.5, 21107.6, and 21107.7. However, the use of this Manual is encouraged on all privately owned and maintained roads or commercial establishments, in general, as a good practice. See Section 1A.07 for more information.

The need for uniform standards was recognized long ago. The American Association of State Highway Officials (AASHO), now known as the American Association of State Highway and Transportation Officials (AASHTO), published a manual for rural highways in 1927, and the National Conference on Street and Highway Safety (NCSHS) published a manual for urban streets in 1930. In the early years, the necessity for unification of the standards applicable to the different classes of road and street systems was obvious. To meet this need, a joint committee of AASHO and NCSHS developed and published the original edition of this Manual on Uniform Traffic Control Devices (MUTCD) in 1935. That committee, now called the National Committee on Uniform Traffic Control Devices (NCUTCD), though changed from time to time in name, organization, and personnel, has been in continuous existence and has contributed to periodic revisions of this Manual. The FHWA has administered the MUTCD since the 1971 edition. The FHWA and its predecessor organizations have participated in the development and publishing of the previous editions. There were eight previous editions of the MUTCD, and several of those editions were revised one or more times. Table I-1 traces the evolution of the MUTCD, including the two manuals developed by AASHO and NCSHS.

Standard:

The U.S. Secretary of Transportation, under authority granted by the Highway Safety Act of 1966, decreed that traffic control devices on all streets and highways open to public travel in accordance with 23 U.S.C. 109(d) and 402(a) in each State shall be in substantial conformance with the Standards issued or endorsed by the FHWA.

Support:

23 CFR 655.603 adopts the MUTCD as the national standard for any street, highway, or bicycle trail open to public travel in accordance with 23 U.S.C. 109(d) and 402(a). The "Uniform Vehicle Code (UVC)" is one of the publications referenced in the MUTCD. The UVC contains a model set of motor vehicle codes and traffic laws for use throughout the United States. The States are encouraged to adopt Section 15-116 of the UVC, which states that, "No person shall install or maintain in any area of private property used by the public any sign, signal, marking, or other device intended to regulate, warn, or guide traffic unless it conforms with the State manual and specifications adopted under Section 15-104."

Text Headings

The Standard, Guidance, Option, and Support material described in this edition of the MUTCD provide the transportation professional with the information needed to make appropriate decisions regarding the use of traffic control devices on streets and highways. The material in this edition is organized to better differentiate between Standards that must be satisfied for the particular circumstances of a situation, Guidances that should be followed for the particular circumstances of a situation, and Options that may be applicable for the particular circumstances of a situation.

Throughout this Manual the headings Standard, Guidance, Option, and Support are used to classify the nature of the text that follows. Figures, tables, and illustrations supplement the text and might constitute a Standard, Guidance, Option, or Support. The user needs to refer to the appropriate text to classify the nature of the figure, table, or illustration.

The figures shown in the California MUTCD are typical or example applications of the traffic control devices to illustrate their use and manner. Criteria for position, location, and use of traffic control devices in the figures is furnished solely for the purpose of guidance, understanding and information, and is not a legal standard unless. Engineering judgment must be used to apply these guidelines to the typical or example applications, or adjust them to fit individual field site conditions. The California MUTCD is not intended to be a substitute for engineering knowledge, experience or judgment.

Standard:

When used in this Manual, the text headings shall be defined as follows:

1. **Standard**—a statement of required, mandatory, or specifically prohibitive practice regarding a traffic control device. All standards are labeled, and the text appears in bold type. The verb shall is typically used. Standards are sometimes modified by Options.
2. **Guidance**—a statement of recommended, but not mandatory, practice in typical situations, with deviations allowed if engineering judgment or engineering study indicates the deviation to be appropriate. All Guidance statements are labeled, and the text appears in unbold type. The verb should is typically used. Guidance statements are sometimes modified by Options.
3. **Option**—a statement of practice that is a permissive condition and carries no requirement or recommendation. Options may contain allowable modifications to a Standard or Guidance. All Option statements are labeled, and the text appears in unbold type. The verb may is typically used.
4. **Support**—an informational statement that does not convey any degree of mandate, recommendation, authorization, prohibition, or enforceable condition. Support statements are labeled, and the text appears in unbold type. The verbs shall, should, and may are not used in Support statements.

For all purposes, regardless of the text heading, any sentence containing the verb shall or MUTCD text edited to the verb shall, shall be considered a Standard. Similarly, any sentence containing the verb should or MUTCD text edited to the verb should, shall be considered a Guidance and any sentence containing the verb may or MUTCD text edited to the verb may, shall be considered an Option.

Support:

For example, if under the Guidance text heading, the California edit shows “should” as crossed out and it is replaced with “shall” (e.g. “...~~should~~ shall...”), the edited sentence will be considered a Standard although the text heading is still Guidance and was not changed to Standard for clearer and brief editing purposes. This allows a single sentence in the middle of a long paragraph, in this example from a Guidance text paragraph to be elevated to a Standard without splitting the paragraph into two or three separate Standard and Guidance paragraphs. This allows the original MUTCD paragraph to be kept intact and keeps the flow of the MUTCD text and maintains the sequence. See California MUTCD sample page sketches on the front inside cover pages which show these and other format explanations with call outs.

Metric and U.S. Customary (English) System of Units

Throughout this Manual all dimensions and distances are provided in the International System of Units, a modernized version of the Metric system, and their English equivalent units are shown in parentheses.

In 1993, the Department had adopted the International System of Units as the preferred system of weights and measures to comply with federal law. The law was subsequently changed making the use of the Metric System optional. The Department made the decision in 2004 to readopt the U.S. Customary (English) system of units and measures as the preferred system. Guidance on the use of the Metric and U.S. Customary Systems of Measurement is available from Department of Transportation's Division of Design, Metric Program.

Guidance:

Before laying out distances or determining sign sizes, the public agency should decide whether to use the International System of Units (Metric) or the English equivalent units. The chosen units should be specified on plan drawings. The chosen unit of measurement should be made known to those responsible for designing, installing, or maintaining traffic control devices.

Except when a specific numeral is required by the text of a Section of this Manual, numerals shown on the sign images in the figures that specify quantities such as times, distances, speed limits, and weights should be regarded as examples only. When installing any of these signs, the numerals should be appropriately altered to fit the specific signing situation.

Format, Reference and Manual Layout

Support:

The following information will be useful when reference is being made to a specific portion of text in this Manual.

There are ten Parts in this Manual and each Part is comprised of one or more Chapters. Each Chapter is comprised of one or more Sections. Parts are given a numerical identification, such as Part 2-Signs. Chapters are identified by the Part number and a letter, such as Chapter 2B-Regulatory Signs. Sections are identified by the Chapter number and letter followed by a decimal point and a number, such as Section 2B.03-Size of Regulatory Signs.

The California MUTCD uses a format similar to the MUTCD. It incorporates FHWA's MUTCD in its entirety and explicitly shows which portions thereof are applicable or not applicable in California. The unedited MUTCD text is shown in "Times New Roman" font with black color. The California edited MUTCD text is also shown in "Times New Roman" font with black color but with strikethrough of all text portions that are not applicable in California and a blue margin line for easier distinction between the two types of MUTCD texts. The California text additions and enhancements are incorporated into the combined document at appropriate locations and shown in an "Arial Narrow" font with blue color and a blue margin line on the right to keep them distinct from the MUTCD content, whether the pages are viewed on a computer monitor, as hard copies in color or as black photo copies.

All MUTCD figures and tables, or portions thereof, that are not applicable in California are shown with appropriate size blue X cross-outs. The MUTCD figures and tables that have been modified or added to, in the California MUTCD retain the same MUTCD Figure or Table number but include "(CA)" to indicate that it is the California version of the MUTCD Figure or Table. For example:

- Figure 3B-14(CA) Examples of Yield Line Layouts
- Table 9B-1(CA) California Minimum Sign Sizes for Bicycle Facilities

For California topics where there is no corresponding section, figure or table in the MUTCD, the California MUTCD gives a number that begins with 101 for that section, figure or table and increases in sequence, followed with a "(CA)" to indicate that this is a California created section, figure or table number. The blue margin line on the right is also added to all California figures and tables to keep them distinct from the MUTCD figures and tables. For example:

- Section 2B.112(CA) – Daylight Headlight Signs (S30(CA) Series)
- Figure 2C-101(CA) – Determination of Comfortable Speed From Ball Bank Indicator Readings
- Table 6F-102(CA) – Maximum Spacing of Channelizing Devices.

The California MUTCD contents within each chapter (Chapter 2B shown as example below) appear in a consistent order for ease of reference. This sequence is as follows:

1. MUTCD Sections per sequential numbering. For example, Sections 2B.01 through 2B.54.
2. California Sections per sequential numbering. For example, Sections 2B.101(CA) through 2B.113(CA).
3. MUTCD Figures (including edited and deleted) per sequential numbering. For example, Figures 2B-1 through 2B-22.
4. California Figures based upon or modifying MUTCD Figures are placed immediately after the respective MUTCD figure. For example, Figure 2B-14(CA) follows immediately after the deleted MUTCD Figure 2B-14 it replaces. Another example is Figure 2B-18(CA) which immediately follows MUTCD (undeleted) Figure 2B-18 as the California figure supplements the MUTCD Figure, it does not replace it.
5. California Figures that are stand alone and not based upon MUTCD Figures follow in sequence per their numbering. For example, Figures 2B-101(CA) through 2B-106(CA) follow after the end of MUTCD numbered figures.
6. MUTCD and California Tables follow the Figures under similar rules described above for the figures.

See California MUTCD sample page sketches on the front inside cover pages which show these and other format explanations with call outs.

Each Section is comprised of one or more paragraphs. The paragraphs are indented but are not identified by a number or letter. Paragraphs are counted from the beginning of each Section without regard to the intervening text headings (Standard, Guidance, Option, or Support). Some paragraphs have lettered or numbered items. As an example of how to cite this Manual, the phrase "Not less than 12 m (40 ft) beyond the stop line" that appears on Page 4D-12 of this Manual would be referenced in writing as "Section 4D.15, P7, D1(a)," and would be verbally referenced as "Item D1(a) of Paragraph 7 of Section 4D.15."

Target Compliance Dates and Deleted Traffic Control Devices

Standard:

In accordance with 23 CFR 655.603(b)(1), States or other Federal agencies that have their own MUTCDs or Supplements shall revise these MUTCDs or Supplements to be in substantial conformance with changes to the National MUTCD within 2 years of issuance of the changes. Unless a particular device is no longer serviceable, non-compliant devices on existing highways and bikeways shall be brought into compliance with the current edition of the National MUTCD as part of the systematic upgrading of substandard traffic control devices (and installation of new required traffic control devices) required pursuant to the Highway Safety Program, 23 U.S.C. § 402(a). In cases involving Federal-aid projects for new highway or bikeway construction or reconstruction, the traffic control devices installed (temporary or permanent) shall be in conformance with the most recent edition of the National MUTCD before that highway is opened or re-opened to the public for unrestricted travel [23 CFR 655.603(d)(2)]. The FHWA has the authority to establish other target compliance dates for implementation of particular changes to the MUTCD [23 CFR 655.603(d)(4)]. ~~These target compliance dates established by the FHWA shall be as follows:~~

~~Section 2A.19 Lateral Offset—crashworthiness of sign supports—January 17, 2013 for roads with posted speed limit of 80 km/h (50 mph) or higher.~~

~~Section 2B.03 Size of Regulatory Signs—increased sign sizes and other changes to Table 2B-1—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2B.04 STOP Sign (R1-1)—4 WAY plaque requirement—January 17, 2004.~~

~~Section 2B.06 STOP Sign Placement—signs mounted on back of STOP sign—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2B.09 YIELD Sign Applications—changes in YIELD sign application criteria from the 1988 MUTCD—January 17, 2011.~~

~~Section 2B.10 YIELD Sign Placement—signs mounted on back of YIELD sign—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2B.11 Yield Here to Pedestrians Signs (R1-5, R1-5a)—new section—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2B.13 Speed Limit Sign (R2-1)—color of changeable message legend of YOUR SPEED—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2B.25 Reversible Lane Control Signs (R3-9d, R3-9f through R3-9i)—removal of R3-9c and R3-9e signs—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2B.26 Preferential Only Lane Signs (R3-10 through R3-15)—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2B.27 Preferential Only Lanes for High-Occupancy Vehicles (HOVs)—new section in Millennium Edition—January 17, 2007.~~

~~Section 2B.28 Preferential Only Lane Sign Applications and Placement—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2B.37 ONE WAY Signs (R6-1, R6-2)—placement requirement at intersecting alleys—January 17, 2008.~~

~~Section 2B.46 Photo Enforced Signs (R10-18, R10-19)—new section—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2B.52 Hazardous Material Signs (R14-2, R14-3)—change in sign legend—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2C.04 Size of Warning Signs—increased sizes of W4-1, W5-2, W6-3, and W12-1 signs—January 17, 2008.~~

~~Section 2C.04 Size of Warning Signs—sizes of W1 Series Arrows signs, W7 Series truck runaway signs, W12-2p low clearance signs, and W10-1 advance grade crossing sign—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

~~Section 2C.11 Truck Rollover Warning Signs (W1-13, W1-13a)—new section—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~

- Section 2C.16 NARROW BRIDGE Sign (W5-2) — elimination of symbol sign — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2C.25 PAVEMENT ENDS Sign (W8-3) — removal of symbol sign — January 17, 2011.**
- Section 2C.26 Shoulder Signs (W8-4, W8-9, and W8-9a) — removal of symbol signs — January 17, 2011.**
- Section 2C.30 Speed Reduction Signs (W3-5, W3-5a) — removal of R2-5 Series Reduced Speed Ahead signs and use of W3-5 or W3-5a warning signs instead — 15 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2C.31 Merge Signs (W4-1, W4-5) — Entering Roadway Merge sign (W4-1a) — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2C.32 Added Lane Signs (W4-3, W4-6) — Entering Roadway Added Lane sign (W4-3a) — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2C.33 Lane Ends Signs (W4-2, W9-1, W9-2) — new design of W4-2 sign — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2C.34 Two-Way Traffic Sign (W6-3) — transition from one-way street — 5 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2C.37 Intersection Warning Signs (W2-1 through W2-6) — new design of Circular Intersection (W2-6) sign — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2C.40 Vehicular Traffic Signs (W8-6, W11-1, W11-5, W11-5a, W11-6, W11-8, W11-10, W11-11, W11-12, W11-14) — new symbol signs W11-1, W11-5, W11-5a, W11-6, W11-11, and W11-14 — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2C.41 Nonvehicular Signs (W11-2, W11-3, W11-4, W11-7, W11-9) — elimination of crosswalk lines from crossing signs and use of diagonal downward pointing arrow supplemental plaque (W16-7) if at the crossing — January 17, 2011.**
- Section 2C.53 PHOTO ENFORCED Plaque (W16-10) — new section — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2D.38 Street Name Sign (D3-1) — symbol sizes, 150 mm (6 in) letter sizes for lettering on ground-mounted Street Name signs on roads that are not multi-lane streets with speed limits greater than 60 km/h (40 mph), other new provisions of Millennium Edition — January 9, 2012.**
- Section 2D.38 Street Name Sign (D3-1) — letter sizes on ground-mounted signs on multi-lane streets with speed limits greater than 60 km/h (40 mph) and letter sizes on overhead-mounted signs — 15 years from the effective date of the Final Rule of the 2003 MUTCD.**
- Section 2D.39 Advance Street Name Signs (D3-2) — new section in 2000 MUTCD and revisions in 2003 MUTCD — 15 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2D.45 General Service Signs (D9 Series) — Traveler Info Call 511 (D12-5) sign, Channel 9 Monitored (D12-3) sign — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2D.46 Reference Location Signs (D10-1 through D10-3) and Intermediate Reference Location Signs (D10-1a through D10-3a) — location and spacing of Reference Location signs and design of Intermediate Reference Location signs — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2E.28 Interchange Exit Numbering — size of exit number plaque — January 17, 2008.**
- Section 2E.28 Interchange Exit Numbering — LEFT on exit number plaques for left exits — 5 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2E.30 Advance Guide Signs — advance placement distance — January 17, 2008.**
- Section 2E.54 Reference Location Signs and Enhanced Reference Location Signs (D10-4, D10-5) — design of Enhanced Reference Location signs and Intermediate Enhanced Reference Location signs — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2E.59 Preferential Only Lane Signs — new section in 2003 Edition — 10 years from the effective date of the Final Rule for the 2003 MUTCD.**
- Section 2F.05 Size of Lettering — minimum height of letters and numerals on specific service signs — January 17, 2011.**
- Section 2I.03 EVACUATION ROUTE Sign (EM-1) — new design and size of EM-1 sign — 15 years from the effective date of the Final Rule for the 2003 MUTCD.**

- ~~Section 3B.01 Yellow Centerline Pavement Markings and Warrants—new section in Millennium Edition—January 3, 2003.~~
- ~~Section 3B.03 Other Yellow Longitudinal Pavement Markings—spacing requirements for pavement marking arrows in two-way left-turn lanes—5 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 3B.07 Warrants for Use of Edge Lines—new section in Millennium Edition—January 3, 2003.~~
- ~~Section 3B.17 Crosswalk Markings—gap between transverse lines of a crosswalk—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 3B.19 Pavement Word and Symbol Markings—typical spacing of lane-use arrows in two-way left-turn lanes shown in Figure 3B-7—5 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 3C.01 Object Marker Design and Placement Height—width of stripes on Type 3 striped marker—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 4D.01 General—location of signalized midblock crosswalks—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 4D.05 Application of Steady Signal Indications—Item B.4 in STANDARD—5 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 4D.12 Flashing Operation of Traffic Control Signals—duration of steady red clearance interval in change from red-red flashing mode to steady (stop-and-go) mode—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 4E.06 Accessible Pedestrian Signals—new section in Millennium Edition—January 17, 2005.~~
- ~~Section 4E.07 Countdown Pedestrian Signals—new section—10 years from the effective date of the Final Rule for the 2003 MUTCD for countdown pedestrian signal hardware; 3 years from the effective date of the Final Rule for the 2003 MUTCD for operational requirements of countdown pedestrian signals.~~
- ~~Section 4E.09 Accessible Pedestrian Signal Detectors—new section in Millennium Edition—January 17, 2005.~~
- ~~Section 4E.10 Pedestrian Intervals and Signal Phases—pedestrian clearance time sufficient to travel to far side of the traveled way—5 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 5C.05 NARROW BRIDGE Sign (W5-2)—elimination of symbol sign—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 6D.01 Pedestrian Considerations—all new provisions for pedestrian accessibility—5 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 6D.02 Accessibility Considerations—5 years from the effective date of the Final Rule for the MUTCD.~~
- ~~Section 6D.03 Worker Safety Considerations—high-visibility apparel requirements—3 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 6E.02 High-Visibility Safety Apparel—high-visibility apparel requirements for flaggers—3 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 6F.03 Sign Placement—crashworthiness of sign supports—January 17, 2005.~~
- ~~Section 6F.58 Channelizing Devices—crashworthiness—January 17, 2005.~~
- ~~Section 6F.59 Cones—width of retroreflective stripes—5 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 6F.63 Type I, II, or III Barricades—crashworthiness—January 17, 2005.~~
- ~~Section 6F.66 Longitudinal Channelizing Barricades—crashworthiness—January 17, 2005.~~
- ~~Section 6F.82 Crash Cushions—crashworthiness—January 17, 2005.~~
- ~~Section 7B.08 School Advance Warning Assembly (S1-1 with Supplemental Plaque)—use of AHEAD plaque (W16-9p) or distance plaque (W16-2 or W16-2a)—January 17, 2011.~~
- ~~Section 7B.09 School Crosswalk Warning Assembly (S1-1 with Diagonal Arrow)—elimination of crosswalk lines from crossing signs and use of diagonal downward-pointing arrow supplemental plaque (W16-7)—January 17, 2011.~~

- ~~Section 7B.12 Reduced Speed School Zone Ahead Sign (S4-5, S4-5a)—15 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 7E.04 Uniform of Adult Crossing Guards and Student Patrols—requirement for high-visibility apparel for adult crossing guards—5 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 8B.03 Highway-Rail Grade Crossing (Crossbuck) Sign (R15-1) and Number of Tracks Sign (R15-2)—retroreflective strip on crossbuck support—January 17, 2011.~~
- ~~Section 8B.04 Highway-Rail Grade Crossing Advance Warning Signs (W10 Series)—removal of existing W10-6 series signs—January 17, 2006.~~
- ~~Section 8D.07 Traffic Control Signals at or Near Highway-Rail Grade Crossings—pre-signals—10 years from the effective date of the Final Rule for the 2003 MUTCD.~~
- ~~Section 9B.04 Bicycle Lane Signs (R3-17, R3-17a, R3-17b)—deletion of preferential lane symbol (diamond) for bicycle lane signs—January 17, 2006.~~
- ~~Section 9B.17 Bicycle Warning Sign (W11-1)—elimination of crosswalk lines from crossing signs and use of diagonal downward pointing arrow supplemental plaque (W16-7) if at the crossing—January 17, 2011.~~
- ~~Chapter 9C Markings—deletion of preferential lane symbol (diamond) for bicycle pavement markings—January 17, 2007.~~
- ~~Part 10 Traffic Controls for Highway-Light Rail Transit Grade Crossings—automatic gates, flashing-light signals, and blank-out signs—January 17, 2011.~~
- ~~Section 10C.15 Highway-Rail Grade Crossing Advance Warning Signs (W10 Series)—removal of existing W10-6 series signs—January 17, 2006.~~
- All these MUTCD target compliance dates (beginning with Section 2A.19 and ending with Section 10C.15) are deleted and shall not apply in California.

Option:

In order for maintenance personnel to understand what to do when replacing a damaged non-compliant traffic control device, agencies may establish a policy regarding whether to replace the device in kind or to replace it with a compliant device.

Support:

Often it is desirable to upgrade to a compliant device at the time of this maintenance of a damaged device. However, it might be appropriate to replace the damaged non-compliant device in kind at the time of this maintenance activity if engineering judgment indicates that:

- A. One compliant device in the midst of a series of adjacent non-compliant devices could potentially be confusing to road users; and/or
- B. The anticipated schedule for replacement of the whole series of non-compliant devices will result in achieving timely compliance with the MUTCD.

Standard:

Unless allowed per the Option below, in cases involving new highway or bikeway construction or reconstruction, the traffic control devices installed (temporary or permanent) shall be in conformance with the current edition of the California MUTCD before that highway is opened or re-opened to the public for unrestricted travel pursuant to the California Vehicle Code 21401.

Option:

In cases involving new highway or bikeway construction or reconstruction, the traffic control devices installed (temporary or permanent) may be in accordance with previous traffic control device standards of May 20, 2004 per MUTCD 2003 and MUTCD 2003 California Supplement or prior to that of Caltrans Traffic Manual, if in the judgment of the engineer, incorporating the California MUTCD standards would impose a significant delay or a significant increase in costs for the project.

Support:

Reconstruction, as used in the previous Standard and Option topics, for the purpose of a traffic control device would mean if a particular device is modified in any form or shape or is relocated. If a reconstruction project does not modify or relocate a traffic control device, although encouraged, there would be no obligation to upgrade the traffic control device per current edition of the California MUTCD standards.

Standard:

Unless allowed per the option below, non-compliant traffic control devices on existing highways and bikeways shall be brought into compliance with the California MUTCD as part of the systematic upgrading of substandard traffic control devices (and installation of new required traffic control devices) required pursuant to the California Vehicle Code 21401.

Option:

All traffic control devices on existing highways and bikeways that have become non-compliant per California MUTCD adopted standards may remain in service through the end of their useful service life, unless identified specifically with a target compliance date per Table I-101(CA).

To limit financial impact on agencies and for fiscal responsibility reasons, existing inventory of non-compliant traffic control devices, except those identified per Table I-101(CA), may continue to be used until these inventories are depleted.

Support:

The signs listed in Table I-101(CA) are non-compliant per this California MUTCD and further; they have been singled out for specific target compliance dates by the California Traffic Control Devices Committee and California Department of Transportation.

Failure to replace a sign listed in Table I-101(CA) by its target compliance date does not reduce the effectiveness of the sign to impart information to the road user.

For ease of reference, Figure I-101(CA) shows the sign sketches of the deleted signs that have target compliance dates.

Standard:

The signs listed in Table I-101(CA), although used in the past, shall no longer be used in California. Further, any such signs on existing highways and bikeways shall be removed, and replaced if appropriate, by the target compliance dates shown in Table I-101(CA).

Support:

The signs listed in Table I-102(CA) are old California signs that have been deleted for application in the past. These signs are non-compliant per this California MUTCD but do not have any specific target compliance dates. Hence, any such signs on existing highways and bikeways can remain in service through the end of their useful service life.

Standard:

The signs listed in Table I-102(CA), although used in the past, shall no longer be used in California.

Support:

The signs listed in Table I-103(CA) are MUTCD signs that have been deleted throughout this Manual, wherever they were reference by the MUTCD. Refer to the section listed in this table for more details regarding the reason for the deletion and/or what signs they are replaced with.

Standard:

The signs listed in Table I-103(CA) shall not be used in California.

(This space left intentionally blank)

Figure I-101 (CA). Deleted California Signs with Target Compliance Dates



(This space left intentionally blank)

Year	Name	Month / Year Revised
1927	Manual and Specifications for the Manufacture, Display, and Erection of U.S. Standard Road Markers and Signs (for rural roads)	4/29, 12/31
1930	Manual on Street Traffic Signs, Signals, and Markings (for urban streets)	No revisions
1935	Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD)	2/39
1942	Manual on Uniform Traffic Control Devices for Streets and Highways — War Emergency Edition	No revisions
1948	Manual on Uniform Traffic Control Devices for Streets and Highways	9/54
1961	Manual on Uniform Traffic Control Devices for Streets and Highways	No revisions
1971	Manual on Uniform Traffic Control Devices for Streets and Highways	11/71, 4/72, 3/73, 10/73, 6/74, 6/75, 9/76, 12/77
1978	Manual on Uniform Traffic Control Devices for Streets and Highways	12/79, 12/83, 9/84, 3/86
1988	Manual on Uniform Traffic Control Devices for Streets and Highways	1/90, 3/92, 9/93, 11/94, 12/96, 6/98, 1/00
2000	Manual on Uniform Traffic Control Devices for Streets and Highways — Millennium Edition	7/02
2003	Manual on Uniform Traffic Control Devices for Streets and Highways	

Table I-1(CA) Evolution of the California MUTCD

Year	Name
1955	Planning Manual of Instructions, Part 8 – Traffic Department of Public Works, Division of Highways
1972	Traffic Manual Department of Public Works, Division of Highways
1996	Traffic Manual (Metric Version) Department of Transportation, Division of Traffic Operations
2004	FHWA's MUTCD 2003 & MUTCD 2003 California Supplement Department of Transportation, Division of Traffic Operations
2006	California MUTCD Department of Transportation, Division of Traffic Operations

Table I-101(CA) Deleted California Signs with Target Compliance Dates

Sign Code	Title/Description	Comment	Target Compliance Date
R16B(CA)	NO RIGHT TURN word message	Use No Right Turn (R3-1) symbol sign	January 1, 2010
R17B(CA)	NO LEFT TURN word message	Use No Left Turn (R3-2) symbol sign	January 1, 2010
R19(CA)	NO LEFT OR U TURN word message	Use No Left or U Turn (R3-18) symbol sign	January 1, 2010
R34A(CA)	No U TURN word message	Use No U Turn (R3-4) symbol sign	January 1, 2010
SR2 M(CA)	SPEED LIMIT 35 mph 56 km/h	1976 Metric sign never implemented	January 1, 2007
SR3 M(CA)	END 35 mph 56 km/h SPEED LIMIT	1976 Metric sign never implemented	January 1, 2007
SR24 1(CA)	STOP ON RED SIGNAL word message	Use STOP HERE ON RED with arrow (R10-6) sign	January 1, 2010
SR31(CA)	SCHOOL STOP CROSSING round shape Paddle	Use STOP (C28A(CA)) octagon shape Paddle	January 1, 2010
SR36(CA)	CLOSED Red on White octagon shape sign	Use ROAD CLOSED (R11-2) sign	January 1, 2010
W54(CA)	Pedestrian Crossing Symbol with crosswalk lines	Use Pedestrian Crossing symbol (W11-2) without crosswalk lines & diagonal downward pointing arrow (W16-7P) plaque	January 1, 2011
W66(CA)	School Crossing Symbol with crosswalk lines	Use School Crossing symbol (S1-1) without crosswalk lines & diagonal downward pointing arrow (W16-7P) plaque	January 1, 2011
W66A(CA)	SCHOOL XING word message	Use School Crossing symbol (S1-1) without crosswalk lines & diagonal downward pointing arrow (W16-7P) plaque	January 1, 2011
SW1 1(CA)	TRAFFIC FROM RIGHT(LEFT) DOES NOT STOP with arrow	Use CROSS TRAFFIC DOES NOT STOP (W4-4P) plaque, which is without the arrow	January 1, 2007
SW6 M(CA)	40 mph - 64 km/h	1976 Metric sign never implemented	January 1, 2007
SW18 2.1(CA)	VERTICAL CLEARANCE __ FT. __ IN.	Use Low Clearance (W12-2) sign or rectangular (W12-2P) plaque	January 1, 2010
SW25(CA)	School Symbol - SCHOOL XING with crosswalk lines	Use School Crossing symbol (S1-1) without crosswalk lines & diagonal downward pointing arrow (W16-7P) plaque	January 1, 2011
SW27(CA)	Skewed RR Crossing symbol with Motorcycle symbol	Use Skewed Crossing symbol (W10-12) sign	January 1, 2015
SW27 1(CA)	Skewed RR Crossing symbol with Motorcycle & Bike symbol	Use Skewed Crossing symbol (W10-12) sign	January 1, 2015
SW28(CA)	STEEL DECK with Motorcycle symbol	Use modified STEEL BRIDGE DECK (SW28 (CA)) word message sign	January 1, 2015
SW72 M(CA)	EXIT 30 mph 48 km/h	1976 Metric sign never implemented	January 1, 2007

Table I-102(CA) Deleted California Signs - No Target Compliance Dates (Sheet 1 of 5)

California Code	Title/Description	Comment
R6-1(CA)	AUTOS WITH TRAILERS - TRUCKS 55 MAXIMUM	Replaced by two separate signs: TRUCKS, 3 AXLES OR MORE 55 MAXIMUM (R6-3(CA)) & ALL VEHICLES WHEN TOWING 55 MAXIMUM (R6-4(CA))
R6-2(CA)	TRUCKS - AUTOS WITH TRAILERS RIGHT 2 LANES ONLY	Replaced by two separate signs: TRUCKS 3 AXLES OR MORE RIGHT 2 LANES ONLY (R6-3A(CA)) & ALL VEHICLES WHEN TOWING RIGHT 2 LANES ONLY (R6-4A(CA))
R10(CA)	ONE WAY (Pentagon shape)	Use ONE WAY (R6-1) (Rectangular shape)
R13(CA)	NO TURN ON RED word message	Use symbolic No Turn On Red (R10-11)
R20E(CA)	SEMI OVER 38 FT KINGPIN TO REAR AXLE	Use No Trucks Variable Message (R20-1(CA)) or TRACTOR-SEMIS OVER (X FEET) KINGPIN TO REAR AXLE NOT ADVISED (SW48(CA))
R41(CA)	RIGHT TURN ONLY	Use Right Turn Arrow ONLY (R3-5R)
R42(CA)	LEFT TURN ONLY	Use Left Turn Arrow ONLY (R3-5L)
R49(CA)	NO PED CROSSING - USE CROSSWALK	Use No Pedestrian Crossing (R9-3a) & USE CROSSWALK (R9-3b)
R49A(CA)	NO PED CROSSING - CROSS HERE	Use No Pedestrian Crossing (R9-3a) & USE CROSSWALK (R9-3b)
R67A(CA)	2 WAY TURN LANE	Use Two-Way Left Turn Only (R3-9a or R3-9b) symbol signs
R68(CA)	PASSING LANE AHEAD	Use PASSING LANE (X MILES) or AHEAD G69(CA)
R82(CA)	BUS CARPOOL LANE (HOV) AHEAD	Refer Caltrans HOV Guidelines 2003 Edition
R83(CA)	(HOV) BUS CARPOOL LANE AHEAD	Refer Caltrans HOV Guidelines 2003 Edition
R83A(CA)	6AM-9AM MON-FRI	Refer Caltrans HOV Guidelines 2003 Edition
R84(CA)	BUS CARPOOL LANE (HOV) ENDS	Refer Caltrans HOV Guidelines 2003 Edition
R84A(CA)	___ MILE	Refer Caltrans HOV Guidelines 2003 Edition
R85(CA)	(HOV) BUS CARPOOL LANE ENDS	Refer Caltrans HOV Guidelines 2003 Edition
R86-1(CA)	(HOV) CENTER LANE BUSES AND CARPOOLS ONLY 6AM-9AM 3PM-6PM MON-FRI	Refer Caltrans HOV Guidelines 2003 Edition
R87(CA)	(HOV) BUSES AND CARPOOLS WITH 3 OR MORE 6AM-9AM (Down Arrow) MON-FRI	Refer Caltrans HOV Guidelines 2003 Edition
R91A(CA)	MOTORCYCLES OK	Refer Caltrans HOV Guidelines 2003 Edition
R93(CA)	CARPPOOL IS 3 OR MORE PERSONS PER VEHICLE	Refer Caltrans HOV Guidelines 2003 Edition
R93-1(CA)	CARPPOOL IS 3 OR MORE PERSONS PER VEHICLE	Refer Caltrans HOV Guidelines 2003 Edition
R94A(CA)	MOTORCYCLES OK	Refer Caltrans HOV Guidelines 2003 Edition
R96A(CA)	NO PED XING	Use NO PEDESTRIAN CROSSING (R9-3)
R96C(CA)	PEDESTRIANS PROHIBITED	Use No Pedestrian Crossing (R9-3a)
R100(CA)	SPECIAL PLACARD OR LICENSE PLATE REQUIRED	Use TOW-AWAY SPECIAL PLACARD OR LICENSE PLATE REQUIRED (R100A(CA))
SR4(CA)	SCHOOL SPEED LIMIT 25 WHEN CHILDREN ARE PRESENT	Use School Speed Limit Assembly C - SCHOOL (S4-3), Speed Limit (R2-1) & WHEN CHILDREN ARE PRESENT (S4-2)

Table I-102(CA) Deleted California Signs - No Target Compliance Dates (Sheet 2 of 5)

California Code	Title/Description	Comment
SR14(CA)	SPEED ENFORCED BY AIRCRAFT (Plane symbol)	Use SPEED ENFORCED BY AIRCRAFT (R48-2(CA)), word message, no symbol
SR21-1(CA)	CAMPING PROHIBITED	Miscellaneous
SR38(CA)	CARPOOL PARKING ONLY	Refer Caltrans HOV Guidelines 2003 Edition
SR50(CA)	CARPOOL VIOLATION \$___ MINIMUM FINE	Refer Caltrans HOV Guidelines 2003 Edition
SR52A(CA)	NO VEHICLES ON TRACKS	Use DO NOT DRIVE ON TRACKS (R15-6a)
W16(CA)	GROOVED PAVEMENT	Changed to GROOVED PAVEMENT (SW45) on 6/17/87, change wasn't reflected in 1996 TM
W53(CA)	NOT A THROUGH STREET	Use DEAD END (W14-1) or NO OUTLET (W14-2)
W75(CA)	LANE ENDS MERGE LEFT (RIGHT)	Use Lane Ends (W4-2)
W75A(CA)	(HOV) LANE ENDS MERGE RIGHT	Use (HOV) LANE ENDS MERGE LEFT (RIGHT) (W75-1(CA))
W80(CA)	XING	Use Vehicular/Nonvehicular Traffic (W11 series) symbol signs and/or Diagonal Downward Pointing Arrow (W16-7p) plaque.
W82A(CA)	TROLLEY XING	Use Light Rail Transit (Trolley) Crossing W82(CA)
W84(CA)	TURNOUT 1/4 MILE	Never approved
SW1-2(CA)	OPPOSING TRAFFIC DOES NOT STOP	Use CROSS TRAFFIC DOES NOT STOP (W4-4P) with alternate message per section 2C.50.
SW8-1(CA)	TRUCKS CROSSING TO SCALES	None
SW14-1(CA)	FLOODED DURING STORM	Use SUBJECT TO FLOODING (W55B(CA))
SW21-1(CA)	FIRE STATION WATCH FOR TRUCKS	Use Emergency Vehicle (W11-8) symbol sign
SW21A(CA)	FIRE STATION	Use Emergency Vehicle (W11-8) symbol sign
SW21C(CA)	FIRE STATION	Use Emergency Vehicle (W11-8) symbol sign
SW24(CA)	School Symbol - SCHOOL	Use School Advance Warning (S1-1)
SW29(CA)	NARROW SUBWAY	Narrow application
SW30(CA)	ISLANDS	Miscellaneous
SW31(CA)	DIPS	Use DIP (W8-2) with NEXT X Miles (W7-3a) plaque
SW42(CA)	Double Head Arrow (Diamond shape)	Use Two-Direction Large Arrow (W1-7)
SW43(CA)	Single Head Arrow (Diamond shape)	Use One-Direction Large Arrow (W1-6)
SW53(CA)	___ WAY SIGNAL	Not commonly understood
SW56A(CA)	GOLF CART XING	Use Golf Cart (W11-11) symbol sign
G7-3(CA)	Street Name (FAIR OAKS BLVD)	Use Street Name (D3 or G7-1(CA))
G18(CA)	MT. WHITNEY FISH HATCHERY	Miscellaneous
G32-1(CA)	3-Head Arrow	Use Directional Arrow Auxiliary (M6 Series)
G62(CA)	SPEEDOMETER CHECK AHEAD	Miscellaneous
G63(CA)	MILE 0	Miscellaneous
G64(CA)	END CHECK	Miscellaneous
G66-14A(CA)	EMERGENCY MEDICAL CARE	Use EMERGENCY MEDICAL CARE (D9-13c)
G66-16(CA)	Hospital symbol - HOSPITAL	Use Hospital (D9-2)
G66-20(CA)	NATURAL GAS	Use Compressed Natural Gas (G66-22A(CA)), Liquefied Natural Gas (G66-22B(CA)) or LP GAS (G81-52(CA))
G66-21B(CA)	NEXT EXIT	Use NEXT RIGHT/LEFT (G58(CA))
G70(CA)	PASSING LANE AHEAD	Use PASSING LANE (X MILES) or AHEAD G69(CA)

Table I-102(CA) Deleted California Signs - No Target Compliance Dates (Sheet 3 of 5)

California Code	Title/Description	Comment
G70-1(CA)	445A	Use Single Line EXIT XXXX (G70-3(CA))
G70-2.2(CA)	EXIT 444	Use Single Line EXIT XX (G70-2(CA))
G70-3.2(CA)	EXIT 445A	Use Single Line EXIT XXXX (G70-3(CA))
G81-1(CA)	HIGHWAY PATROL	Use Highway Patrol (G66-57(CA))
G81-4(CA)	PHONE WATER	Use Telephone (D9-1) & Drinking Water (RG-050)
G81-7(CA)	HOSPITAL PHONE with Arrows	Use Telephone (D9-1) & Hospital (D9-2) with Directional Arrow Auxiliary (M6 series)
G81-9(CA)	HOSPITAL WATER PHONE with Arrows	Use Telephone (D9-1), Hospital (D9-2) & RG-050 with Directional Arrow Auxiliary (M6 series)
G81-11(CA)	HOSPITAL WATER PHONE with Arrows	Use Telephone (D9-1), Hospital (D9-2) & RG-050 with Directional Arrow Auxiliary (M6 series)
G81-13(CA)	HOSPITAL WATER PHONE with Arrows	Use Telephone (D9-1), Hospital (D9-2) & RG-050 with Directional Arrow Auxiliary (M6 series)
G81-15(CA)	HOSPITAL WATER PHONE with Arrows	Use Telephone (D9-1), Hospital (D9-2) & RG-050 with Directional Arrow Auxiliary (M6 series)
G81-17(CA)	HIGHWAY PATROL NEXT RIGHT	Use Highway Patrol (G66-57(CA)) & BRAKE CHECK AREA (G58(CA))
G81-27(CA)	CARPPOOL VANPOOL INFO CALL ...	Use Carpool Information (SG19(CA)) or Park & Ride Facility/Carpool Information (SG20(CA))
G81-58(CA)	HOSPITAL	Use Hospital (D9-2)
G91-1(CA)	SKIING	Use Skiing (Bobbing) (RS-030), Skiing (Cross Country) (RS-040) or Skiing (Downhill) (RS-050)
G91-4(CA)	CAMPING BOATING	Use Camping (Tent) (RM-010), Camping (Trailer) (RM-020), Motorboating (RW-070), Ramp (Launch) (RW-080), Rowboating (RW-090) or Sailboating (RW-100)
G91-7(CA)	CAMPING SKIING with Arrows	Use Skiing (Bobbing) (RS-030), Skiing (Cross Country) (RS-040), Skiing (Downhill) (RS-050), Camping (Tent) (RM-010) or Camping (Trailer) (RM-020) with Directional Arrow Auxiliary (M6 series)
G91-9(CA)	CAMPING PICNICKING BOATING with Arrow	Use Camping (Tent) (RM-010), Camping (Trailer) (RM-020), Picnic Area (RM-120), Motorboating (RW-070), Ramp (Launch) (RW-080), Rowboating (RW-090) or Sailboating (RW-100) with Directional Arrow Auxiliary (M6 series)
G91-11(CA)	SKIING BOATING CAMPING with Arrows	Use Skiing (Water) (RW-110), Camping (Tent) (RM-010), Camping (Trailer) (RM-020), Motorboating (RW-070), Ramp (Launch) (RW-080), Rowboating (RW-090) or Sailboating (RW-100) with Directional Arrow Auxiliary (M6 series)
G91-13(CA)	PICNICKING BOATING CAMPING with Arrow	Use Camping (Tent) (RM-010), Camping (Trailer) (RM-020), Picnic Area (RM-120), Motorboating (RW-070), Ramp (Launch) (RW-080), Rowboating (RW-090) or Sailboating (RW-100) with Directional Arrow Auxiliary (M6 series)

Table I-102(CA) Deleted California Signs - No Target Compliance Dates (Sheet 4 of 5)

California Code	Title/Description	Comment
G91-15(CA)	BOATING SKIING PICNICKING with Arrows	Use Skiing (Water) (RW-110), Picnic Area (RM-120), Motorboating (RW-070), Ramp (Launch) (RW-080), Rowboating (RW-090) or Sailboating (RW-100) with Directional Arrow Auxiliary (M6 series)
G91-17(CA)	PICNICKING NEXT RIGHT	Use Picnic Area (RM-120) with NEXT RIGHT/LEFT (G58(CA))
G91-19(CA)	CAMPGROUND 1/4 MILE	Use Camping (Tent) (RM-010) with Distance Ahead (W16-2 series and W16-3 series) plaques
G94-3(CA)	AIRPORT	Use Airport (I-5) or Conventional Airport (G94-1(CA))
G97A-2(CA)	CALTRAIN	Use AMTRAK (G97A(CA)) with CALTRAIN word message option
SG11(CA)	STATE FIRE STATION	Use CDF FIRE STATION NEXT RIGHT (SG38(CA))
SG12(CA)	STATE RANGER HDQTRS	Use Ranger Station (RG-170)
SG13(CA)	INTERMOUNTAIN CONSERVATION CAMP	Miscellaneous
SG36(CA)	BUCKLE UP with symbol	Use Seat Belt (SR15(CA)) symbol sign
SG37(CA)	HIGHWAY MAINTENANCE COURTESY OF ---	Use Adopt-A-Highway (S32(CA) series)
SG40(CA)	CALL BOX ___ MILE SPACING NEXT ___ MILES	Obsolete
SG46(CA)	MOTORIST AID CALL BOX AHEAD	Obsolete
SG49(CA)	CALL 511 TRAVEL INFO	Use TRAVEL INFO CALL 511 (D12-5)
S4-1.1(CA)	THIS FOUNTAIN HAS BEEN CONSTRUCTED...	Miscellaneous
S11-1(CA)	LITTER REMOVAL NEXT 2 MILES (with Plaque)	Use Adopt-A-Highway (S32(CA) series)
S11-2(CA)	WILDFLOWERS (with Plaque)	Use Adopt-A-Highway (S32(CA) series)
S11-3(CA)	TREE PLANTING (with Plaque)	Use Adopt-A-Highway (S32(CA) series)
S11A(CA)	ADOPT-A-HIGHWAY	Use Adopt-A-Highway (S32(CA) series)
S13(CA)	CARE FOR CALIFORNIA with Symbol	Campaign is over
S14(CA)	CARE FOR CALIFORNIA with Symbol	Campaign is over
S15(CA)	CARE FOR CALIFORNIA with Symbol	Campaign is over
S31(CA)	HIGHWAY WORKERS - GIVE 'EM A BRAKE	Miscellaneous
C10(CA)	SLIDE AHEAD	Use ROAD WORK, ROAD CLOSED, DETOUR, ONE LANE ROAD, RIGHT LANE CLOSED (W20 series) or NARROW LANES (C12(CA)), LANE CLOSED (C30(CA)), LANE CLOSED AHEAD (SC10(CA)), etc instead of identifying condition.
C13(CA)	END CONSTRUCTION	Use END ROAD WORK (G20-2)
C18(CA)	ROAD CONSTRUCTION AHEAD	Use ROAD (STREET) WORK (W20-1)
C21(CA)	SINGLE LANE AHEAD	Use RIGHT LANE CLOSED AHEAD (W20-5) or RIGHT TWO LANES CLOSED AHEAD (W20-5a)
C23A(CA)	ROAD WORK AHEAD (Square shape)	Use ROAD (STREET) WORK (W20-1)
C24A(CA)	SHOULDER WORK AHEAD (Square shape)	Use RIGHT (LEFT) SHOULDER CLOSED XXX FT (W21-5)

Table I-102(CA) Deleted California Signs - No Target Compliance Dates (Sheet 5 of 5)

California Code	Title/Description	Comment
C32(CA)	END SURVEY WORK	Use END ROAD WORK (G20-2)
C33(CA)	BLASTING ZONE 1000 FT	Use BLASTING ZONE AHEAD (W22-1)
C36(CA)	PREPARE TO STOP	Use BE PREPARED TO STOP (W3-4)
C39(CA)	ACCIDENT AHEAD	Use ROAD WORK, ROAD CLOSED, DETOUR, ONE LANE ROAD, RIGHT LANE CLOSED (W20 series) or NARROW LANES (C12(CA)), LANE CLOSED (C30(CA)), LANE CLOSED AHEAD (SC10(CA)), etc instead of identifying condition.
C41(CA)	Uneven Lane symbol	Use UNEVEN LANES (W8-11) word message sign
C41A(CA)	UNEVEN LANES (Rectangular)	Use UNEVEN LANES (W8-11) (Diamond) word message sign
SC2-1(CA)	ONE LANE ROAD	Use ONE LANE ROAD (W20-4)
SC4(CA)	SECOND RAMP CLOSED AHEAD	Use ___ EXIT - RAMP CLOSED (SC8(CA))
SC6(CA)	NOTICE - THIS RAMP WILL BE CLOSED TEMPORARILY - (Dates & Times)	Use RAMP CLOSED (More than one day) (SC6-4(CA))
SC6-1(CA)	ON (Day - Date - Time)	Use Day/Month Plaque (SC6A(CA)) or Time Plaque (SC6B(CA))
SC6-2(CA)	WEEKDAYS (Day - Date - Time)	Use Day/Month Plaque (SC6A(CA)) or Time Plaque (SC6B(CA))
SC14(CA)	RIGHT LANE	Use DETOUR (M4-9 series) or Directional Arrow Auxiliary (M6 series)
SC17(CA)	TRAFFIC BREAK DO NOT PASS	Use DO NOT PASS (SC13(CA))

(This space left intentionally blank)

Table I-103(CA). Deleted MUTCD Signs - No Target Compliance Dates (Sheet 1 of 2)

MUTCD Code	California Code	Title of Sign	California MUTCD Section
M1-4	None	U.S. Route	2D.11, 2E.25
M1-5	None	State Route	2D.11
R1-6a	None	In-Street Pedestrian Crossing	2B.12
R2-2	None	Truck Speed Limit	2B.14
R2-5	None	Reduced Speed Ahead	Introduction, Page I-4
R3-1a	None	No Right Turn Across Tracks	8B.06, 10C.09
R3-2a	None	No Left Turn Across Tracks	8B.06, 10C.09
R3-9c	None	Reversible Lane Control	Introduction, Page I-4
R3-9e	None	Reversible Lane Control	Introduction, Page I-4
R3-10	None	Preferential Only Lane	2B.26, 2B.28
R3-10a	None	Preferential Only Lane	2B.26, 2B.28
R3-10b	None	Preferential Only Lane	2B.26, 2B.28
R3-11	None	Preferential Only Lane	2B.26, 2B.28
R3-11a	None	Preferential Only Lane	2B.26, 2B.28
R3-11b	None	Preferential Only Lane	2B.26, 2B.28
R3-11c	None	Preferential Only Lane	2B.26, 2B.28
R3-12	None	Preferential Only Lane	2B.26, 2B.28
R3-12a	None	Preferential Only Lane	2B.26, 2B.28
R3-12b	None	Preferential Only Lane	2B.26, 2B.28
R3-13	None	Preferential Only Lane	2B.26, 2B.28
R3-13a	None	Preferential Only Lane	2B.26, 2B.28
R3-14	None	Preferential Only Lane	2B.26, 2B.28
R3-14a	None	Preferential Only Lane	2B.26, 2B.28
R3-14b	None	Preferential Only Lane	2B.26, 2B.28
R3-15	None	Preferential Only Lane	2B.26, 2B.28
R3-15a	None	Preferential Only Lane	2B.26, 2B.28
R3-17	None	BIKE LANE	9B.04
R3-17a	None	AHEAD	9B.04
R3-17b	None	ENDS	9B.04
R10-6a	None	STOP HERE ON RED	2B.45
R10-11a	R13(CA)	NO TURN ON RED	2B.45
R10-11b	None	NO TURN ON RED	2B.45
R10-16	None	U-TURN YIELD TO RIGHT TURN	2B.45
R10-17a	None	RIGHT (LEFT) ON RED ARROW AFTER STOP	2B.45
R12-2	None	AXLE WEIGHT LIMIT X t (XX TONS)	2B.49
R12-3	None	NO TRUCKS OVER X t (XX TONS) EMPTY WT	2B.49
R12-4	None	WEIGHT LIMIT X t (XX TONS) PER AXLE, X t (XX TONS) GROSS	2B.49
R12-6	None	METRIC	2B.49
R14-2	None	Hazardous Material Route	2B.52
R14-3	None	Hazardous Material Prohibition	2B.52
R14-4	None	National Network	2B.53
R14-5	None	National Network Prohibition	2B.53
R15-3	None	EXEMPT	8B.05, 10C.10

Table I-103(CA). Deleted MUTCD Signs - No Target Compliance Dates (Sheet 2 of 2)

MUTCD Code	California Code	Title of Sign	California MUTCD Section
W1-4b	None	Reverse Curve (2 lanes)	6F.45
W1-4c	None	Reverse Curve (3 lanes)	6F.45
W1-13a	None	Truck Rollover Warning	Introduction, Page I-4
W3-1a	None	STOP AHEAD	2C.29
W3-2a	None	YIELD AHEAD	2C.29
W4-1a	None	Entering Roadway Merge	Introduction, Page I-4
W5-4	None	RAMP NARROWS	6F.26
W6-1a	None	DIVIDED HIGHWAY	2C.18
W6-1b	None	DIVIDED ROAD	2C.18
W6-2a	None	DIVIDED HIGHWAY ENDS	2C.19
W6-2b	None	DIVIDED ROAD ENDS	2C.19
W9-2	W75(CA)	LANE ENDS MERGE LEFT (RIGHT)	2C.33
W10-6	None	WARNING LOOK BOTH WAYS	Introduction, Page I-6
W13-4	None	ON RAMP	6F.25
W13-5	None	Curve Speed	2C.06, 2C.36
W16-13p	None	WHEN FLASHING	2C.29
W20-7a	None	Flagger	6F.29
W24-1a	None	Double Reverse Curve (2 lane)	6F.45
W24-1b	None	Double Reverse Curve (3 lane)	6F.45
W25-1	None	ONCOMING TRAFFIC HAS EXTENDED GREEN	2C.39
W25-2	None	ONCOMING TRAFFIC MAY HAVE EXTENDED GREEN	2C.39

(This space left intentionally blank)

(This page left intentionally blank)

CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
~~MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES~~

TABLE OF CONTENTS

INTRODUCTION

PART 1

GENERAL

Chapter 1A

General

PART 2

SIGNS

Chapter 2A

General

Chapter 2B

Regulatory Signs

Chapter 2C

Warning Signs

Chapter 2D

Guide Signs – Conventional Roads

Chapter 2E

Guide Signs – Freeways and Expressways

Chapter 2F

Specific Service Signs

Chapter 2G

Tourist-Oriented Directional Signs (TODS)

Chapter 2H

Recreational and Cultural Interest Area Signs

Chapter 2I

Emergency Management Signing

PART 3

MARKINGS

Chapter 3A

General

Chapter 3B

Pavement and Curb Markings

Chapter 3C

Object Markers

Chapter 3D

Delineators

Chapter 3E

Colored Pavements

Chapter 3F

Barricades and Channelizing Devices

Chapter 3G

Islands

PART 4

HIGHWAY TRAFFIC SIGNALS

Chapter 4A

General

Chapter 4B

Traffic Control Signals - General

Chapter 4C

Traffic Control Signal Needs Studies

Chapter 4D

Traffic Control Signal Features

Chapter 4E

Pedestrian Control Features

Chapter 4F

Traffic Control Signals For Emergency Vehicle Access

Chapter 4G

Traffic Control Signals For One-Lane, Two-Way Facilities

Chapter 4H

Traffic Control Signals For Freeway Entrance Ramps

Chapter 4I

Traffic Control For Movable Bridges

Chapter 4J

Lane-Use Control Signals

Chapter 4K

Flashing Beacons

Chapter 4L

In-Roadway Lights

PART 10

**TRAFFIC CONTROLS FOR HIGHWAY-LIGHT RAIL
TRANSIT GRADE CROSSINGS**

Chapter 10A

General

Chapter 10B

Highway-Light Rail Transit Grade Crossing Control Systems

Chapter 10C

Signs, Illumination, And Markings

Chapter 10D

Highway-Light Rail Transit Active Traffic Control Grade
Crossing Systems

APPENDIX

Appendix A1

Congressional Legislation

[Appendix A101\(CA\)](#)

[California Sign Chart \(September 2006\)](#)

[Appendix A102\(CA\)](#)

[List of Acronyms & Abbreviations](#)

[Appendix A103\(CA\)](#)

[List of Useful TCD Related Web Sites](#)



(This page left intentionally blank)