



2021 ANNUAL REPORT

This report is prepared in compliance with Article V, Section 2 Procedures of the Bylaws of the California Traffic Control Devices Committee (CTCDC).

2021 Voting Members

David Fleisch CSAC- Chair	Assistant Director Ventura County Public Works Agency Ventura, CA 93009
Robert W. Bronkall CSAC – Vice Chair	Deputy Director of Public Works Humboldt County 3033 H St, Room 17, Eureka, CA 95501
Jason C. Welday (Nov. 4 th) LOCC	Director of Engineering Services/City Engineer Rancho Cucamonga 10500 Civic Center Dr, Rancho Cucamonga, CA 91730
Pratyush Bhatia (Nov 4 th May 13 th) LOCC	Transportation and Operations Manager City of Dublin 100 Civic Plaza, Dublin, CA 94568
Xavier Maltese AAA NCNU	Public Affairs Specialist AAA Northern CA, NV, & UT 1277 Treat Blvd, Ste 1000, Walnut Creek, CA 94597
Marianne Kim (Nov 4 th May 13 th) ACSC	Automobile Club of Southern California 3333 Fairview Rd, Costa Mesa, CA 92626
Lt. Noah Hawkins CHP	Special Projects Section California Highway Patrol 601 N 7th St, Sacramento, CA 95811
Monica Kress-Wooster (May 13 th) Caltrans	Safety Programs Deputy Division Chief Caltrans Division of Safety Programs 1120 N St, Sacramento, CA 95814
Faridun Javed (Aug. 12 th) Caltrans	Safety Programs Acting Office Chief Caltrans Division of Safety Programs 1120 N St, Sacramento, CA 95814
Lee Haber (Nov. 4 th) Caltrans	Traffic Safety Engineering Manager Caltrans Division of Safety Programs 1120 N St, Sacramento, CA 95814
Mike Sallaberry Caltrans	Livable Streets Subdivision, SFMTA Caltrans Active Transportation One S Van Ness Ave, 7 th Fl, SF, CA 94103
Bryan Jones Caltrans – Active Transportation	City Manager City of Eastvale 12363 Limonite Ave, Ste 910, Eastvale, CA 91752



CALIFORNIA TRAFFIC CONTROL DEVICES COMMITTEE



The following alternate members were designated by the parent organizations to act in the absence of their appointed voting members:

2021 Alternate Members

Zoubir A. Ouadah CSAC	County Traffic Engineer County of San Diego, DPW 5510 Overland Ave, Ste 410, San Diego, CA 92123
Richard Moorehead (Nov. 4 th) CSAC	Engineer Manager Placer County 3091 County Center Dr, Ste 220, Auburn, CA 95603
Virendra Patel (Nov 4 th Aug 12 th) LOCC	City of Concord 1950 Parkside Dr, Concord, CA 94519
Lena Whittaker (Nov 4 th) AAA NCNU	Public Affairs Specialist AAA Northern CA, NV, & UT 1277 Treat Blvd, Ste 1000, Walnut Creek, CA 94597
Steve Finnegan (Nov 4 th) ACSC	Automobile Club of Southern California 3333 Fairview Rd, Costa Mesa, CA 92626
Denise Dobson (Nov 4 th) CHP	Special Projects Section California Highway Patrol 601 N 7th St, Sacramento, CA 95811
Gurinderpal (Johnny) Bhullar Caltrans	Senior Transportation Engineer Caltrans' Division of Safety Programs 1120 N St, Sacramento, CA 95814
Tony Powers (Nov 4 th Aug 12 th) Caltrans – Active Transportation	Senior Engineer Dokken Engineering 110 Blue Ravine Rd, Ste 200, Folsom, CA 95630
Rock Miller (Nov 4 th Aug 12 th) Caltrans – Active Transportation	Rock E. Miller & Associates 5731 E West View Dr, Orange, CA 92869



CALIFORNIA TRAFFIC CONTROL DEVICES COMMITTEE



Executive Secretary

Gurinderpal (Johnny) Bhullar Caltrans	Caltrans Division of Safety Programs 1120 N St, Sacramento, CA 95814
Russell Wenham (Alternate) Caltrans	Caltrans Division of Safety Programs 1120 N St, Sacramento, CA 95814
Hasib Mohabbat (May 13 th and Aug 12 th)	Caltrans Division of Safety Programs 1120 N St., Sacramento, CA 95814

Abbreviations

CHP – California Highway Patrol
 CSAC – California State Association of Counties
 LOCC – League of California Cities
 ACSC – Automobile Club of Southern California
 AAA NCNU – AAA Northern CA, NV & UT

2021 Meeting Dates & Locations

Date	Location
February 18, 2021	Canceled - No Agenda Items
May 13, 2021	Online (Webex)
August 12, 2021	Online (Webex)
November 4, 2021	Online (Webex)

2021 CTCDC AGENDA ITEMS LIST

<u>Item No.</u>	<u>Title/Description</u>
<u>Action Items</u>	
21-01	Proposed changes to CA MUTCD on bikeway memorial signage (Item number 21-01 was changed to 21-07 in August 2021 meeting).
21-02	Request for approval to modify existing "NO IDLING" sign.
21-06	Request for approval to clarify language for Caltrans use of 6-inch lane lines in the CA MUTCD.
21-07	Proposed changes to CA MUTCD on bikeway memorial signage (Item number 21-01 was changed to 21-07 in August 2021 meeting).
21-09	Request for Interim approval for the optional use of an alternative signal warrant 7 – crash experience (IA-19)
21-10	Proposal to adopt new No Right (or Left Turn) on Red Arrow signs in CA MUTCD.
21-12	Proposal to modify preferential lane striping in the CA MUTCD.
21-14	Proposal to modify guide sign lighting policy (Section 2D.03).
21-15	TRUCKS OK panels on Overhead Arrow-per-Lane Signs
21-19	Proposal to add options to cones and portable delineators allowing retroreflectorization to bases.
21-20	Proposal to edit figures for red reflectors on exit ramps to address recessed marker issues.
21-21	Proposal to add figures and make text revisions for temporary traffic control at roundabouts.

Informational Items

21-05	Proposed changes to Shared Lane Markings Section 9C.07
21-08	Reinstatement of Interim Approval for Use of Clearview Font for Positive Contrast Legends on Guide Signs (IA-5)
21-16	Revisions to Speed Limit policy to comply with chaptered Assembly Bill (AB-43) on Traffic Safety becoming effective January 1, 2022
21-22	Planned editorial changes to Part 3 and Part 9 to incorporate green-colored pavement, bikeway separator post and editorial cleanup.

Requests for Word Message Sign Approval

21-03	Request for approval of two new bicycle warning word message signs "WATCH FOR BICYCLIST ON BRIDGE" and "WATCH FOR BICYCLIST IN TUNNEL".
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Requests for Experimentation

21-04	Request for experimentation of regulatory sign for roundabouts. (Caltrans District 5)
21-13	Request for approval of new marking in the bicycle transition area in a right turn only lane. (County of Santa Clara)

- 21-17 Request to allow Dual Language (Spanish and English) Changeable Message Sign Messages. (Caltrans District 8)

2021 CTCDC AGENDA ITEMS' ACTIONS

Action Items

- 21-01 Proposed changes to CA MUTCD on bikeway memorial signage (Item number 21-01 was changed to 21-07 in August 2021 meeting).
- 21-02 Request for approval to modify existing "NO IDLING" sign.
Action: The Committee passed a motion to recommend changes to CA MUTCD to allow an optional phone number to be added to the sign (Section 2B.46); that may be used in areas with idling concern for heavy-duty diesel trucks and buses to report violators directly to California Air Resources Board (CARB) or local law enforcement agencies. The optional language would direct back to Section 2A.06 for when the phone number could be added to the sign.
Incorporated into CA MUTCD 2014 Revision 8, which was issued on January 11, 2024.
- 21-06 Request for approval to clarify language for Caltrans use of 6-inch lane lines in the CA MUTCD.
Action: The Committee passed a motion to recommend specific language for approval in a future meeting to revise the CA MUTCD to add requirement clarifying the use of 6 inch wide longitudinal traffic lines for lanelines, edgelines, and centerlines on state highways, and allow local agencies to use 4-inch lane lines as deemed appropriate.
Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.
- 21-07 Proposed changes to CA MUTCD on bikeway memorial signage (Item number 21-01 was changed to 21-07 in August 2021 meeting).
Action: The Committee passed a motion to recommend language revising the CA MUTCD to include standard language for memorial signs on Bikeways.
Incorporated into CA MUTCD 2014 Revision 8, which was issued on January 11, 2024.
- 21-09 Request for Interim approval for the optional use of an alternative signal warrant 7 – crash experience (IA-19).
Action: The committee passed a motion to recommend to Caltrans to pursue the application to FHWA to seek blanket approval for any agency in California to use alternative signal warrant 7.
Caltrans requested and received approval from FHWA dated October 19, 2021.
- 21-10 Proposal to adopt new No Right (or Left Turn) on Red Arrow signs in CA MUTCD.
Action: The proposal was withdrawn by Caltrans based on the discussions during the meeting.
- 21-12 Proposal to modify preferential lane striping in the CA MUTCD.
Action: The committee passed a motion to recommend changes to the striping details for managed lanes, which will assist in narrowing down the variety and use consistency, especially for autonomous vehicles; to enhance visibility for

continuous access managed lanes; and to allow for maximum use of roadway space by reducing buffer widths.

Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.

- 21-14 Proposal to modify guide sign lighting policy (Section 2D.03)
Action: The committee passed a motion to recommend the proposal with FHWA's recommended language added. It will provide agencies the option to not install lighting fixtures if the retroreflective sheeting used provides effective nighttime legibility.
Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.
- 21-15 TRUCKS OK Panels on Overhead Arrow-per-Lane Signs
Action: The committee passed a motion to recommend the proposal as is, but to allow an option, if approved by FHWA, to stack the words TRUCKS OK to the right side of the arrow. This will facilitate agencies to designate a specific lane, or lanes, other than the right-hand lane(s) that trucks/trailers may use if the agency determines that it would facilitate the safe and orderly movement of traffic, such as in advance of freeway branch connections, lane drops, etc.
Incorporated into CA MUTCD 2014 Revision 8, which was issued on January 11, 2024.
- 21-19 Proposal to add options to cones and portable delineators allowing retroreflectorization to bases.
Action: The committee passed a motion to recommend the option of putting retroreflectorization on cone and portable delineator bases and the elimination of the outdated option to use removable retroreflectorized sleeves on cones in CA MUTCD Section 6F.64 and 6F.65. The additional retroreflectorization added to the top and bottom of cone and portable delineator bases improves the visibility of these devices at night, especially when they fall over and are laying on their sides.
Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.
- 21-20 Proposal to edit figures for red reflectors on exit ramps to address recessed marker issues.
Action: The committee passed a motion to recommend figure edits to CA MUTCD Figure 3A-114(CA) and Figure 3B-24(CA) for the use of wrong-way retroreflective pavement markers on exit ramps to address locations in snow area, which require markers to be recessed. It also addresses conflicts with other ground in recesses and avoid encroachments into the shoulder of cross-streets. The one-way recesses for wrong-way markers, need to be configured opposite to the primary direction of travel.
Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.
- 21-21 Proposal to add figures and make text revisions for temporary traffic control at roundabouts.



Action: The committee passed a motion to recommend proposed changes to CA MUTCD Section 6G.13, Table 6H-1(CA), and new Figures 6H-106(CA) and 6H-107(CA) to provide guidance for temporary traffic control at roundabouts. CA MUTCD & CT Standard Plans lack guidance on temporary traffic control at roundabouts. FHWA's National MUTCD 11th edition revision proposal includes TTC guidance at roundabouts. In order to provide the best practices for CA MUTCD practitioners at the earliest time, Caltrans requested inclusion of this FHWA proposal into CA MUTCD.

Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.

Informational Items

- 21-05 Proposed changes to Shared Lane Markings Section 9C.07.
Action: The committee passed a motion to deny this request, with the understanding that under the Interim Approval no experimentation is necessary to install it. FHWA interim approval should address this pending FHWA clarification. FHWA CA Division office agreed that this treatment was acceptable under the Interim Approval issued to Caltrans in 2011 for its use on a blanket basis statewide. No further action was needed.
- 21-08 Reinstatement of Interim Approval for Use of Clearview Font for Positive Contrast Legends on Guide Signs (IA-5)
Action: FHWA reinstated this Interim Approval, originally issued on September 2, 2004, which had been terminated on January 25, 2016. This reinstatement provides for the provisional use of the alternative letter style known as Clearview on certain highway guide signs as it existed before its termination on January 25, 2016. This reinstatement applies to California, under the previous approval received from FHWA on December 7, 2006. FHWA has taken a neutral stance and reissued the Interim Approval (IA). No further action is needed.
- 21-16 Revisions to Speed Limit policy to comply with chaptered Assembly Bill (AB-43) on Traffic Safety becoming effective January 1, 2022
Action: The committee established a subcommittee to address the changes and their impacts of AB-43 so the CA MUTCD can be updated in a timely manner to be compliant with AB-43. It recommended to defer a motion for this item to a future meeting since it is lengthy with many changes pertaining to CA MUTCD Section 2B.13 and Table 2B-101(CA) that the subcommittee needs to explore before finalizing the proposal for changes needed in CA MUTCD.
At end of 2021, it was pending subcommittee review and finalization of proposal in future meetings in 2022.
Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.
- 21-22 Proposed editorial changes to Part 3 and Part 9 to incorporate green-colored pavement, bikeway separator post and editorial cleanup.
Action: This proposal is a comprehensive review and update to Part 9 of the manual. Since this proposal includes 87-page attachment, it is being introduced as an informational item to allow adequate review time. With the growing deployment of bikeways throughout California, Caltrans identified its need. This

planned revision is the result of reviewing the entire Part 9 and making systematic editorial changes to all sections for consistency and uniformity. No Action. Deferred to later meeting.

Incorporated into CA MUTCD 2014 Revision 8, which was issued on January 11, 2024.

Requests for Word Message Sign Approval

- 21-03 Request for approval of two new bicycle warning word message signs "WATCH FOR BICYCLIST ON BRIDGE" and "WATCH FOR BICYCLIST IN TUNNEL".

Action: The Committee passed motion accepting the proposal to allow the use of two non-standard warning signs (WATCH FOR/BICYCLISTS IN TUNNEL and WATCH FOR/BICYCLISTS ON BRIDGE) by incorporating them into revised CA MUTCD. The motion also included a separate request to Caltrans to develop a general proposal allowing the use of the word message "WHEN FLASHING" for inclusion in the CA MUTCD, where it may be applicable. Th "WHEN FLASHING" proposal requires review of traffic signs and traffic signal policies, standards, and device specifications.

Pending incorporation of the two-word message signs into CA MUTCD in a future revision and bringing back revised proposal on "WHEN FLASHING" plaque.

Requests for Experimentation

- 21-04 Request for experimentation of regulatory sign for roundabout. (Caltrans District 5)

Action: Caltrans proposal involves a non-standard symbol sign for unique geometry at a roundabout. States do not have authority to develop new symbol signs. The Committee passed a motion directing Caltrans to work with FHWA to identify an appropriate sign for this location based on existing signage in the CA MUTCD. If such sign is not available in CA MUTCD, then Caltrans can bring back a request for a new sign

- 21-13 Request for approval of new marking in the bicycle transition area in a right turn only lane. (County of Santa Clara)

Action: This request involved new marking in the bicycle transition area in a right turn only lane. The committee tabled the issue, as it will be addressed per item 21-05 outcome. This installation is covered under FHWA's Interim Approval (IA-14), no experimentation is necessary. No further action was needed.

- 21-17 Request to allow Dual Language (Spanish and English) Changeable Message Sign Messages. (Caltrans District 8)

Action: FHWA issued an official ruling disallowing the use of messages in another language, as per research, they are distracting. Caltrans Headquarters had asked FHWA for a determination on the use of foreign languages on CMS signs and FHWA response was the same, not to allow another language. The request was missing information and needed modification to include measurable effectiveness. It was noted that this request does not follow the form of an experiment per the CTCDC website. Caltrans District 8 was asked to pursue a more formal request directly with FHWA.



Summary of Accomplishments in 2021

A total of 19 items were introduced in 2021:

- 11 of 19 items were completed in 2021
- 2 of 19 items were completed in 2022
- 11 of 19 items resulted in CA MUTCD changes
- 2 of 19 item allowed use of FHWA's Interim Approvals
- 1 of 19 item pending changes to CA MUTCD
- 5 of 19 items were withdrawn after meeting discussions
- No items were approved for experimentation in 2021
- 15 experiments were under active status at end of 2021.

MISCELLANEOUS

- Mr. Jason Welday, Director of Engineering/City Engineer in City of Rancho Cucamonga was appointment by the League of California Cities (LOCC) to represent the league as their southern California cities representative and a voting member of the CTCDC beginning with the November 4, 2021, meeting.
- CTCDC Agendas, Meeting Minutes, Annual Reports, and other information are available on the Internet at:

<https://dot.ca.gov/programs/safety-programs/ctcdc/meetings>

SIGN SPECIFICATIONS

- As provided in California Vehicle Code Section 21400, a list of the current California coded sign specifications used on streets and highways in California is available on the following website:

<https://dot.ca.gov/programs/safety-programs/sign-specs>

- MUTCD coded sign specifications are located in the FHWA Standard Highway Signs Book, available on the following FHWA website:

http://mutcd.fhwa.dot.gov/ser-shs_millennium.htm