



2022 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).

2022 Voting Members

- David Fleisch (May 5th & Nov 3rd) Assistant Director
CSAC- Chair Ventura County Public Works Agency
Ventura, CA 93009
- Robert W. Bronkall Deputy Director of Public Works
CSAC – Vice Chair Humboldt County
3033 H St, Room 17, Eureka, CA 95501
- Jason C. Welday Director of Engineering Services/City Engineer
LOCC Rancho Cucamonga
10500 Civic Center Dr, Rancho Cucamonga, CA 91730
- Pratyush Bhatia (Aug 4th) Transportation and Operations Manager
LOCC City of Dublin
100 Civic Plaza, Dublin, CA 94568
- Xavier Maltese Public Affairs Specialist
AAA NCNU AAA Northern CA, NV, & UT
1277 Treat Blvd, Ste 1000, Walnut Creek, CA 94597
- Marianne Kim (May 5th & Nov 3rd) Automobile Club of Southern California
ACSC 3333 Fairview Rd, Costa Mesa, CA 92626
- Lt. Noah Hawkins Special Projects Section
CHP California Highway Patrol
601 N 7th St, Sacramento, CA 95811
- Lee Haber (May 5th) Traffic Safety Engineering Manager
Caltrans Caltrans' Division of Safety Programs
1120 N St, Sacramento, CA 95814
- Yue Wang (Aug 4th & Nov 3rd) Office Chief, Office of Safety Systems & Devices
Caltrans Caltrans' Division of Safety Programs
1120 N St, Sacramento, CA 95814
- Mike Sallaberry Livable Streets Subdivision, SFMTA
Caltrans – Active Transportation One S Van Ness Ave, 7th Fl, SF, CA 94103
- Bryan Jones City Manager
Caltrans – Active Transportation 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:

2022 Alternate Members

Zoubir A. Ouadah (May 5 th) CSAC	County Traffic Engineer County of San Diego, DPW 5510 Overland Ave, Ste 410, San Diego, CA 92123
Robert Scharf (Nov 3 rd) CSAC	Assistant Deputy Director Los Angeles County Public Works 900 S Fremont Ave, Alhambra, CA 91803
Richard Moorehead (May 5 th Nov 3 rd) CSAC	Engineer Manager Placer County 3091 County Center Dr, Ste 220, Auburn, CA 95603
Andrew Maximous (Aug 4 th Nov 3 rd) LOCC	City of Culver City 9770 Culver Blvd, Culver City, CA 90232
Virendra Patel (May 5 th) LOCC	City of Concord 1950 Parkside Dr, Concord, CA 94519
Lena Whittaker (May 5 th) AAA NCNU	Public Affairs Specialist AAA Northern CA, NV, & UT 1277 Treat Blvd, Ste 1000, Walnut Creek, CA 94597
Denise Dobson (May 5 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 (May 5 th & Nov 3 rd) Caltrans – Active Transportation	Senior Engineer Dokken Engineering 110 Blue Ravine Rd, Ste 200, Folsom, CA 95630
Rock Miller (Nov 3 rd) 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
Janelle Halog (Alternate) Caltrans	Caltrans Division of Safety Programs 1120 N St, Sacramento, CA 95814
Ejaz Shaikh Caltrans	Caltrans Division of Safety Programs 1120 N St, Sacramento, CA 95814
Tariq Baha Caltrans	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

2022 Meeting Dates & Locations

Date	Location
February 3, 2022	Canceled - No Agenda Items
May 5, 2022	Online (Webex)
August 4, 2022	Online (Webex)
November 3, 2022	Online (Webex)



2022 CTCDC AGENDA ITEMS LIST

Action Items

<u>Item No.</u>	<u>Title/Description</u>
21-06	Clarify use of 6-inch wide longitudinal traffic lines for lanelines, edgelines, and centerlines on state highways
21-16	Revisions to Speed Limit policy to comply with AB-1938, which clarifies AB-43's text and intent
21-22	Planned editorial changes to Part 3 and Part 9 to incorporate green-colored pavement, bikeway separator post and editorial cleanup.
22-03	Clean California Project Funding Identification Sign
22-10	Revisions to Pedestrians Intervals and Signal Phases to comply with Assembly Bill AB-2264
22-11	Additional retroreflective bands on cones equaling 36" in height
22-15	Option to allow pedestrian walk or clearance intervals during railroad preemption
22-16	Bipartisan Infrastructure Law Rebuilding C50(CA) Sign

Informational Items

22-08	SHSP SM/AD SM.3 Revise the California Manual for Setting Speed Limits
22-09	SHSP SM/AD SC.7 Formalize existing traffic control device uses in the CA MUTCD
22-12	2009 National MUTCD Revision 3 FHWA's Final Rule on Maintaining Minimum Pavement Marking Retroreflectivity.
22-14	AB-1909 Bicycle omnibus bill.

Requests for Word Message Sign Approval

22-04	WILDLIFE CROSSING Word Message Warning Sign
22-06	BIKE TURN-OUT Signs
22-07	REPORT PEDESTRIANS CALL 911 Sign

Requests for Experimentation

15-12	Experiment Closure Request - Traffic Calming Treatments
16-08	Experiment Closure Request – Diagonal Down Yellow Arrow Lane Use Control Signal Indications on Freeway.
16-23	Experiment Closure Request – Green backed sharrow markings
17-15	Experiment Closure Request – Red Colored Pavement for Transit Only Lanes in Left Turn Only Lanes.
17-16	Experiment Closure Request – Internally Illuminated Raised Pavement Markers.



Requests for Experimentation (Continued)

- 19-05 Experiment Closure Request – Bidirectional Pavement Marking for Wrong Way Drivers.
- 19-11 RTE Expansion – Red Colored Transit Only Lanes
- 22-01 Request to Experiment - Internally illuminated raised pavement markers (IIRPMs) to supplement traffic signals adjacent to LRT tracks
- 22-02 Request to Experiment – Left Turn Gates to supplement traffic signals adjacent to LRT tracks
- 22-05 Request to Experiment – Improved Temporary Traffic Delineation

2022 CTCDC AGENDA ITEMS' ACTIONS

Action Items

- 21-06 Clarify use of 6-inch-wide longitudinal traffic lines for lanelines, edgelines, and centerlines on state highways
Action: The committee passed a motion recommending inclusion of the proposed revisions to the CA MUTCD Section 3A.06 to include the minimum requirements of 6" wide longitudinal traffic lines for permanent pavement delineation on State Highway System and clarify the use of 4" width as optional for local agency roadways, with request for clarification to be made to the graphics that better articulates the option for 4-inch lines for local agencies.
Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.

- 21-16 Revisions to Speed Limit policy to comply with AB-1938, which clarifies AB-43's text and intent
Action: The committee passed a motion to recommend inclusion of the various proposed changes to the CA MUTCD Section 2B.13 "Speed Limit Sign (R2-1)", Table 2B-101(CA) and Table 2B102(CA) and newly proposed Tables 2B-103(CA) through 2B-106(CA), to comply with AB-1938 (effective January 1, 2023), which clarifies AB-43's (effective January 1, 2022) text and intent by revising specific AB-43 provisions now included in Vehicle Code Sections. The motion included acceptance of staff recommendations on minor word changes that were discussed during the meeting and also to include fixing typographical errors found in final proofreading.
Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.

- 21-22 Planned 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. The committee passed three separate motions after extensive review period and discussions due to the enormity of this item. First passing motion approved recommendation regarding editorial clean-up and green colored pavement. Second passing motion recommended a line to be struck-out of Section 3G.101 based on meeting discussions. Third passing motion recommended approval of bikeway separator posts portion of the proposal.
Incorporated into CA MUTCD 2014 Revision 8, which was issued on January 11, 2024.

- 22-03 Clean California Project Funding Identification Sign
Action: The committee passed a motion recommending inclusion of the Clean California Funding Sign C49(CA) to CA MUTCD Section 6F.109(CA) "Construction



Project Funding Identification Signs", with a friendly amendment that the inclusion be subject to the logo's approval by FHWA.

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

- 22-10 Revisions to Pedestrians Intervals and Signal Phases to comply with Assembly Bill AB-2264
Action: Proposal includes changes to CA MUTCD Section 4E.06 "Pedestrians Intervals and Signal Phases" to comply with AB-2264 (effective January 1, 2023). The committee passed a motion requesting Caltrans to reach out to the bill's author to clarify what maintenance in particular would trigger these improvements, as well as to clarify the semi-actuated signals, with a friendly amendment to add an Engineering Judgment to the list of questions. Proposal is pending needed follow-up, and discussion in a future meeting.
- 22-11 Additional retroreflective bands on cones equaling 36" in height
Action: The committee passed a motion recommend inclusion of the proposed changes to the CA MUTCD Section 6F.64 "Cones" to address inclusion of additional retroreflective bands on cones equaling 36" in height. Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.
- 22-15 Option to allow pedestrian walk or clearance intervals during railroad preemption
Action: The committee passed a motion recommending inclusion of the proposed changes to the CA MUTCD Section 4D.27 "Preemption and Priority Control of Traffic Control Signals". Incorporated into CA MUTCD 2014 Revision 7, which was issued on March 10, 2023.
- 22-16 Bipartisan Infrastructure Law Rebuilding C50(CA) Sign
Action: The committee passed a motion recommending inclusion of the Bipartisan Infrastructure Law Rebuilding CA C50(CA) Sign to CA MUTCD Section 6F.109(CA) "Construction Project Funding Identification Signs" with caveat that it is pending FHWA approval. Incorporated into CA MUTCD 2014 Revision 8, which was issued on January 11, 2024.

Informational Items

- 22-08 SHSP SM/AD SM.3 Revise the California Manual for Setting Speed Limits
Action: CTCDC members were informed of Strategic Highway Safety Plan's (SHSP) Speed Management/Aggressive Driving (SM/AD) Challenge Areas Action Item 3 (SM.3) to revise the California Manual for Setting Speed Limits (CMSSL) to comprehensively cover speed setting methodology and law in easy to understand terminology, in case local agency CTCDC members would like to nominate engineering and traffic survey (E&TS) experts from local agencies to assist with the revision efforts. No further action is needed.



- 22-09 SHSP SM/AD SC.7 Formalize existing traffic control device uses in the CA MUTCD
Action: CTCDC members were informed of Strategic Highway Safety Plan's (SHSP) Speed Management/Aggressive Driving (SM/AD) Challenge Areas Action Item 7 (SC.7) to formalize existing traffic control device uses in the CA MUTCD, to make CTCDC members aware of the effort undertaken by Caltrans to pursue this action, which may potentially identify non-standard traffic control devices that would require future CTCDC agenda item development and reviews. No further action is needed.
- 22-12 2009 National MUTCD Revision 3 FHWA's Final Rule on Maintaining Minimum Pavement Marking Retroreflectivity.
Action: CTCDC members were informed of FHWA's issuance of the Final Rule revising National MUTCD 2009 Edition to Maintaining Minimum Pavement Marking Retroreflectivity. California has 2 years from the effective date to adopt this final rule by incorporation it into California MUTCD (CA MUTCD). This item is being shared to allow agencies the opportunity to review the final rule on maintaining minimum pavement marking retroreflectivity. It is expected that when agencies have completed their reviews and members are prepared to discuss the details of this National MUTCD 2009 Revision 3, this will be brought back to the committee as an action item in a future meeting.
- 22-14 AB-1909 Bicycle omnibus bill.
Action: CTCDC members were informed of AB-1909 bicycle omnibus bill, which comprehensively changes the rules of the road and restrictions on bicycle operations, to make them aware of this new legislation. No further action is needed.

Requests for Word Message Sign Approval

- 22-04 WILDLIFE CROSSING Word Message Warning Sign
Action: The committee passed a motion recommending inclusion of the "WILDLIFE" sign, the "WILDLIFE CROSSING" sign, or the "WATCH FOR ANIMALS" sign to allow administrative approval by Caltrans and incorporation into the manual. Caltrans decided to use "WILDLIFE CROSSING" sign.
Incorporated into CA MUTCD 2014 Revision 8, which was issued on January 11, 2024.
- 22-06 BIKE TURN-OUT Signs
Action: The committee passed a motion recommending inclusion of two proposed bike turn-out guide signs in new CA MUTCD Section 9B.105 (CA) "BIKE TURN-OUT Signs", after seeking clarification from CHP as to whether they should be regulatory or guide signs. Caltrans checked with CHP and decided that these signs needed to be regulatory and not guide signs.
Incorporated into CA MUTCD 2014 Revision 8, which was issued on January 11, 2024.
- 22-07 REPORT PEDESTRIANS CALL 911 Sign
Action: This proposal was to add new word message sign "REPORT PEDESTRIANS – CALL 911" to CA MUTCD Section 2I.09 to report the presence of pedestrians on highways by calling 911 to improve roadway safety. The committee, after

discussing the proposal, passed a motion recommending the word message be changed to read "PEDESTRIANS PROHIBITED – CALL 911".

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

Requests for Experimentation

- 15-12 Experiment Closure Request - Traffic Calming Treatments
Action: The committee passed a motion to approve closure of this experiment based on email by Michael Azevedo dated October 20, 2022, requesting closure of experiment as the treatments were not effective and speeds actually increased in some locations.
Letter sent to Mr. Michael Azevedo, Director, Colusa County Public Works dated April 3, 2023, informing of CTCDC actions to formally close this experiment request.
- 16-08 Experiment Closure Request – Diagonal Down Yellow Arrow Lane Use Control Signal Indications on Freeway.
Action: The committee passed a motion to approve closure of this experiment in response to Caltrans' District 4 Traffic Operations' (experimenting agency) letter dated August 8, 2021, requesting immediate closure of experiment due to potential confusion with overhead signals on an adjacent corridor that were very similar to the proposed experiment.
Letter sent to Mr. David Man, Caltrans Division Chief, dated April 3, 2023, informing of CTCDC actions to formally close this experiment request.
- 16-23 Experiment Closure Request – Green backed sharrow markings
Action: The committee passed a motion to approve closure of this experiment, that was never implemented, in response to City of Goleta's (experimenting agency) email dated March 10, 2022, requesting closure of experiment.
Letter sent to Ms. Julie Jang, City of Goleta engineer, dated April 3, 2023, informing of CTCDC actions to formally close this experiment request.
- 17-15 Experiment Closure Request – Red Colored Pavement for Transit Only Lanes in Left Turn Only Lanes.
Action: The committee passed a motion to approve closure of this experiment based on email by Robert Sprinkle dated October 3, 2022, requesting closure of experiment based on survey results indicating that this experiment was successful in reducing, but not eliminating unauthorized entry into the Transit Mall.
Letter sent to Mr. Robert Sprinkle, Deputy Director, City of Santa Rosa Transportation and Public Works, dated April 3, 2023, informing of CTCDC actions to formally close this experiment request.
- 17-16 Experiment Closure Request – Internally Illuminated Raised Pavement Markers.
Action: The committee passed a motion to approve closure of this experiment, based on conclusions in the Final Report on this experiment submitted (dated 9/10/2018) by Basilia Yim & Jonathen Hofert of LA Metro, and Sam Morrissey, Iteris Inc., LA Metro Consultant's statements to Caltrans ending experimentation efforts with the completion of this experiment.

- 19-05 Experiment Closure Request – Bidirectional Pavement Marking for Wrong Way Drivers.
Action: The committee passed a motion to approve closure of this experiment based on email by Troy Bucko dated October 18, 2022, requesting closure of experiment due to material failure after installation, and even after manufacturer changed the product's chemical mix.
Letter sent to Mr. Troy Bucko, Caltrans Division of Safety Programs, dated June 21, 2023, informing of CTCDC actions to formally close this experiment request.
- 19-11 RTE Expansion – Red Colored Transit Only Lanes
Action: The committee passed a motion to approve the city's Request to Experiment, extending the experiment and expanding to additional corridors, while allowing flexibility to increase the dates by up to six months in each milestone, dependent upon material acquisition shortages.
- 22-01 Request to Experiment - Internally illuminated raised pavement markers (IIRPMs) to supplement traffic signals adjacent to LRT tracks
Action: The committee passed a motion to conceptually approve the experiment and request that the applicant revisit the Committee when they are ready to proceed with the project in 2028.
- 22-02 Request to Experiment – Left Turn Gates to supplement traffic signals adjacent to LRT tracks
Action: The committee passed a motion for Caltrans to review the request to verify that an experiment is necessary and that it does not already qualify for installation underneath the manual; and if not, then to approve the experiment as proposed. The approval will be conceptual, and the applicant is requested to revisit the Committee when they are ready to proceed with the project in 2028.
- 22-05 Request to Experiment – Improved Temporary Traffic Delineation
Action: The experiment request was withdrawn by the applicant after receiving feedback, questions, and discussion, to reevaluate and revise the request, if planning to continue with the experiment.



Summary of Accomplishments in 2022

25 items on agenda in 2022

- 10 items resulting in CA MUTCD changes
- 2 items were postponed to future meetings
- 6 experiment requests were closed
- 2 experiment requests were conceptually approved
- 1 experiment request was extended and expanded
- 1 experiment request was withdrawn
- 3 informational items did not require further action

MISCELLANEOUS

- Mr. Andrew Maximous, Mobility and Traffic Engineering Manager, City of Culver City, was appointed by the League of California Cities (LOCC) to represent the league as their southern California cities representative and an alternate member of the CTCDC beginning with the August 4, 2022 meeting.
- Mr. Yue Wang, Office Chief, Office of Safety Systems and Devices, Division of Safety Programs, Caltrans was appointed by Caltrans Safety Program management to represent Caltrans as a voting member of the CTCDC beginning with the August 4, 2022, meeting.
- Mr. Robert Scharf, Assistant Deputy Director, Los Angeles County Public Works, was appointed by the County Engineers Association of California (CEAC) to represent the association as their southern California counties representative and as an alternate member of the CTCDC beginning with the November 3, 2022, 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:
- MUTCD coded sign specifications are located in the FHWA Standard Highway Signs Book, available on the following FHWA website:

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

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