



California Traffic Control Devices Committee (CTCDC) Meeting

Thursday, February 2, 2023 (09:00 am to End)



MEETING AGENDA

Meeting Location

Farmer's Market Plaza III, Main Conference Room (Room 102)
1727 30th Street
Sacramento, CA 95816

The Meeting is open and public/local agencies are invited to attend. For further information regarding this meeting, please contact [Johnny Bhullar at \(916\) 662-2397](tel:9166622397), or email Johnny.Bhullar@dot.ca.gov. Additional information on CTCDC can be found at <https://dot.ca.gov/programs/safety-programs/ctcdc>.

Organization Items

1. Introduction

Please state:

- Your name
- CTCDC Role: Voting/Alternate Member, Committee staff or Presenter
- Name of Business or organization you are representing

2. Membership

- Effective February 1, 2023, Lt. Noah Hawkins will be transferring to another position. CHP will be nominating a representative on the CTCDC. Lt. Noah Hawkins will be attending the February 2, 2023 meeting as the CHP representative.
- Xavier Maltese is no longer with AAA Northern California. Lena Whittaker has transferred to the AAA Arizona office and is no longer in the Government and Public Affairs Department of AAA. Xavier and Lena will no longer be able to represent AAA Northern California on the CTCDC. AAA Northern California representatives as a Voting Member and as an Alternate Member are both currently vacant. Caltrans is working with AAA Northern California to nominate Voting and Alternate Members to represent them on the CTCDC.
- CTCDC Brochure is updated for Q&A and member contact information and posted on the CTCDC website.
- Refer to page 5

3. Approval of Minutes of the November 3rd, 2022 Meeting

[November 3rd, 2022 CTCDC Meeting Minutes](#)

4. Public Comments

At this time, members of the public may comment on any item not appearing on the agenda. Matters presented under this item cannot be discussed or acted upon by the Committee at this time. For items appearing on the agenda, the public is invited to make comments at the time the item is considered by the Committee.

- A. Public comment on items not appearing on the agenda shall be limited to a maximum of 5 minutes each. Total public comment period prior to agenda items shall not exceed 20 minutes. The 20 minutes can be proportioned accordingly if there are more than four speakers wishing to speak. Or an additional public comment period on items not appearing on the agenda can be heard after all agenda items are heard.
- B. Public comment on agenda item shall be limited to 3 minutes.
- C. During public comments, a member of public may speak only once per agenda item unless specifically requested by a majority of the CTCDC to come back and comment again.
- D. Longer comments should be provided in writing 10 days prior to the meeting.

Local agencies conducting experiments should incorporate public feedback (if any input was received) in the status report and/or the Final Report. The merits of an experiment's success will be based on the identified problem or issue the Local/State Agency has identified when requesting permission to experiment. Local/State policies decision are not for CTCDC debate or CTCDC public comment as the CTCDC evaluates the technical merits of the experiment and how well it addressed the identified problem or issue.

When addressing the Committee, for the record please state:

- Your name
- Business or organization you are representing
- Optional: To receive information related to CTCDC meetings, please submit your contact information via email to Johnny.Bhullar@dot.ca.gov

5. Updates on items under experimentation

Discussion and direction to agencies on experimentation requests, including:

- Status update on active experiments
- Experimentation Process
- Sponsor Responsibilities

Refer to pages 5 through 9 for more details.

Agenda Items

6. Public Hearing

Prior to adopting rules and regulations prescribing uniform standards and specifications for all official traffic control devices placed pursuant to Section 21400 of the California Vehicle Code, the Department of Transportation is required to consult with local agencies and hold public hearings.

- The current chair and vice chairperson have been serving the committee in these roles since the November 5, 2020 CTCDC meeting.
- As per the Bylaws, the chairperson and vice chairperson shall be nominated, elected, and take office at the first meeting in the calendar year of the two-year term. Representatives of the California Highway Patrol and the California Department of Transportation are not eligible to be chairperson or vice chairperson. It shall be the chairperson's duty to moderate the meetings. The



California Traffic Control Devices Committee (CTCDC) Meeting Thursday, February 2, 2023 (09:00 am to End)



vice chairperson shall preside in the absence of the chairperson. If both are present, a temporary chairperson shall be chosen at the meeting.

- Chair and Vice Chairperson Elections
- Refer to page 9

6a. Consent Items (minor discussion with vote expected)

<u>Agenda Item</u>	<u>Description</u>	<u>Submitted by:</u>	<u>Sponsor/Lead</u>	<u>Page</u>
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		None		

6b. Action Items (Continuing discussion from prior meetings with vote expected)

<u>Agenda Item</u>	<u>Description</u>	<u>Submitted by:</u>	<u>Sponsor/Lead</u>	<u>Page</u>
21-06	6-in Longitudinal Traffic Lines on SHS	Caltrans	Yue Wang / John Bamfield	10
21-16	Assembly Bills AB-43 and AB-1938 Implementation – Speed Limit Policy Revisions	Caltrans	Yue Wang / Jessica Downing & Pauline Wong	10
22-10	Leading Pedestrian Interval Legislation AB-2264	Caltrans	Yue Wang / Michael C. Robinson	10

6c. Informational Items (New items that may be voted on or brought back as an Action Item in a future meeting)

<u>Agenda Item</u>	<u>Description</u>	<u>Submitted by:</u>	<u>Sponsor/Lead</u>	<u>Page</u>
22-08	SHSP Action SM.3 California Manual for Setting Speed Limits Revision	Caltrans	Yue Wang / Pauline Wong	11
22-12	2009 National MUTCD Revision 3 Final Pavement Ruling	Caltrans	Yue Wang / John Bamfield	11

6d. Request for Word Message Signs Approval

<u>Agenda Item</u>	<u>Description</u>	<u>Submitted by:</u>	<u>Sponsor/Lead</u>	<u>Page</u>
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		None		



California Traffic Control Devices Committee (CTCDC) Meeting
Thursday, February 2, 2023 (09:00 am to End)



6e. Request for Experimentation

<u>Agenda Item</u>	<u>Description</u>	<u>Submitted by:</u>	<u>Sponsor/Lead</u>	<u>Page</u>
16-09	Request for Closure of Experiment with Messages and Graphics on Dynamic Message Signs on Freeway	Caltrans District 4	Yue Wang / David Man & Robert McNew	12

7. Next Meeting

Scheduled for May 4, 2023 virtually through Webex.

CTCDC Meetings Annual Schedule:

- February (1st Thursday) – In-Person only meeting, Northern CA location.
- May (1st Thursday) – Virtual meeting, no In-Person location.
- August (1st Thursday) – In-Person only meeting, Southern CA location.
- November (1st Thursday) – Virtual meeting, no In-Person location.

8. Adjourn



California Traffic Control Devices Committee (CTCDC) Meeting

Thursday, February 2, 2023 (09:00 am to End)



2. Membership

- Effective February 1, 2023, Lt. Noah Hawkins will be transferring to another position. CHP will be nominating a representative on the CTCDC. Lt. Noah Hawkins will be attending the February 2, 2023 meeting as the CHP representative.
- CTCDC Brochure is updated for Q&A and member contact information and posted on the CTCDC website.
- Xavier Maltese is no longer with AAA Northern California. Lena Whittaker has transferred to the AAA Arizona office and is no longer in the Government and Public Affairs Department of AAA. Xavier and Lena will no longer be able to represent AAA Northern California on the CTCDC. AAA Northern California representatives as a Voting Member and as an Alternate Member are both currently vacant. Caltrans is working with AAA Northern California to nominate Voting and Alternate Members to represent them on the CTCDC.
- The current CTCDC Brochure can be found in the following link: <https://dot.ca.gov/-/media/dot-media/programs/safety-programs/documents/ctcdc/ctcdc-brochure-a11y.pdf>

5. Updates on items under experimentation

Discussion and direction to agencies on experimentation requests, including:

- Status update on active experiments

Active CTCDC Experiments					
No.	Item #	Description	Agency	Sponsor	CTCDC Meeting Approval
1	16-09	Messages and Graphics on Dynamic Message Signs on Freeway	Caltrans District 4	Yue Wang	3/3/2016
2	16-25	Through lane bicycle box, City of South Pasadena	City of South Pasadena	Mike Sallaberry	9/1/2016
3	18-15	Modified 4-section traffic control and R10-15b sign	City of San Diego	Andrew Maximous	8/9/2018
4	19-08	Non-standard traffic control device for Highway 1 bus on Shoulder	SCCRTC	Yue Wang	8/8/2019
5	19-11	Red colored transit-only lanes	City of Los Angeles	Jason Welday	11/14/2019
6	20-08	Modified 4-section traffic control, 3-section bicycle traffic control, and modified R10-15b Sign	City of Imperial Beach	Jason Welday	7/9/2020
7	20-09	Variable Speed Advisory (VSA) sign	Caltrans DRISI	Yue Wang	7/9/2020
8	20-12	Orange contrasted temporary pavement delineation in construction zones	Caltrans District 11	Yue Wang	7/9/2020
9	20-13	Part-time travel on left shoulder	Caltrans District 5	Yue Wang	7/9/2020

5. Updates on items under experimentation (Continued)

- 16-09 Request for Permission to Experiment with the Messages and Graphics on Dynamic Message Signs on Freeway (Yue Wang)

David Man, Division of Traffic Operations – Caltrans Bay Area

Status Date – 01/20/23 - Request for Closure of Experiment with Messages and Graphics on Dynamic Message Signs. Caltrans District 4 and the FHWA have not been able to resolve the graphics issues related to driver comprehension issues. District 4 is withdrawing the experiment due to FHWA not approving additional field evaluations of the dynamic message boards.

Status Date – 7/21/22 – Caltrans District 4 received FHWA approval in 2016 for this experiment. Citing potential driver comprehension issues, FHWA requested Caltrans to remove the congestion map or graphical route information panels (GRIP), and transit agency logos such as Bay Area Rapid Transit (BART) until human factors studies show potential benefits. Caltrans partnered with UC Berkeley PATH to conduct the requisite studies. UC Berkeley PATH developed a multistage lab environment study to measure drivers' interpretation and comprehension of different designs and conducted experimentation and research in 2018. It included analyzing comprehension and response to the MUTCD compliant 3-line travel time message (baseline), graphical route information panels (GRIP), and the 5/6-line information messages along with studies of various non-MUTCD compliant symbols or legends. A driving simulator was used to evaluate driver comprehension more realistically in an actual environment. At conclusion, Caltrans Headquarters requested FHWA approval to move forward with a controlled field evaluation or test of the GRIP and other graphics concepts. FHWA Headquarter staff in Washington DC didn't approve the requests, citing data in the UC Berkeley human factor study does not justify further field evaluation using the actual message signs along I-80. Evaluations involving the GRIP concepts are paused. If FHWA provides support, Caltrans will resume experimentation of the GRIP and other non-compliant graphics. Final Report of the extensive research by UC Berkeley PATH, dated 10/30/2020, was provided as a reference. Caltrans continued to experiment with the use of text or approved graphic messages up to six lines on the IDBs. Caltrans continues to evaluate the six-line displays and has not completed the processing of analyzing data associated with the instances the Department utilized messages with four or more lines.

- 16-25 Request to experiment with through lane bicycle box, City of South Pasadena (Mike Sallaberry)

Ted Gerber, City of South Pasadena

Status Date - 01/23/23 - Public Works for the City of South Pasadena has provided a final report prepared by KOA Corporation in December of 2019. We are evaluating the report and its conclusions and will provide a recommendation at the May 2023 meeting.



California Traffic Control Devices Committee (CTCDC) Meeting Thursday, February 2, 2023 (09:00 am to End)



Status Date – 9/12/22 – Several contacts for this experiment are no longer working for City of South Pasadena. Tried to contact Sam Zneimer unsuccessfully on 9/8 as well as Planning Division on 9/12. Contacted Jason Welday, representative of LOCC Southern California, on 9/21/22, for assistance and he contacted the city on 9/22/22. Awaiting response from the city.

- 18-15 Request for experimentation with modified 4-section traffic control and R10-15b sign (Andrew Maximous)

Matthew Capuzzi, San Diego (Chen Ryan Associates)

Status Date - 12/15/2022 - No change to status. See 9/2/022 update.

Status Date – 9/2/2022 – The installation of equipment will take place in March 2025 and the experimentation period is from March 2025 to March 2026.

- 19-08 Request to Experiment Non-standard traffic control device for Highway 1 bus on Shoulder project (Yue Wang)

Sarah Christiansen, Santa Cruz County Regional Transportation Commission

Status Date - 12/15/2022 - No change in status. See 10/24/2022 update.

Status Date – 10/24/22 – The bus on shoulder facilities will be implemented in 3 phases on northbound and southbound Highway 1 and concurrently with 7.5 miles of auxiliary lane projects. For phase 1, the contract was awarded in August 2022 and construction is scheduled to begin in late 2022 and be operational by the end of 2024. For phase 2, construction is scheduled to begin in the summer of 2023 and will be operational in 2026. For phase 3, construction is expected to start in summer of 2025. The full 7.5-mile facility is anticipated to be operational in 2028.

- 19-11 Request to Experiment Red colored transit-only lanes (Jason Welday)

Tim Frémaux, Los Angeles Department of Transportation

Status Date – 7/5/2022 – LADOT still waiting response from FHWA to continue with the expansion of the experiment.

Status Date – 5/5/22 – LADOT proposed expanding its experiment with red colored transit-only lanes to determine if they continue to reduce violations of transit-only lane restrictions and reduce delays to transit vehicles at the CTCDC meeting on 5/5/22. CTCDC approved request to expand experiment to additional locations and 6-month time extension.



California Traffic Control Devices Committee (CTCDC) Meeting Thursday, February 2, 2023 (09:00 am to End)



- 20-08 Request for experimentation with modified 4-section traffic control, 3-section bicycle traffic control, and modified R10-15b Sign (Jason Welday)
- Ryan Whipple, P.E., T.E.
City of Imperial Beach
- Status Date - 1/13/23 - Contractor has been selected and awaiting permits to break ground. Work on selected locations is expected to begin late this year.
- Status Date – 10/6/22 – This experimental approval is part of a larger bikeway project led by regional Metropolitan Planning Organization (MPO) San Diego Association of Governments (SANDAG). The project was issued for Bid in May 2022. Contractor was selected August 2022. Notice to Proceed (NTP) for Construction will be November 2022.
- 20-09 Request for experimentation of the performance of Variable Speed Advisory (VSA) sign (Yue Wang)
- Jose Camacho Jr., California Department of Transportation
- Status Update - 01/12/23 - Variable Speed Advisories Signs were installed at 10 locations along North Bound SR99. We are in the process of collecting data for analysis. The signs will be removed at the end of March 2023. The Project is expected to end at the end of May 2023 with a Final Report shortly after.
- Status Date – 10/7/2020 – Caltrans DRISI was working with FHWA to check the status on Caltrans' request to get permission to experiment and evaluate the performance of Variable Speed Advisory (VSA) on State Route 99. Request was submitted on 7/27/20 and waiting response. Matthew Zeller of FHWA/Office of Operations confirmed that FHWA/ MUTCD Team had received the request for experimentation and will get back to Caltrans.
- 20-12 Request for approval of orange contrasted temporary pavement delineation in construction Zones (Yue Wang)
- Troy Bucko, Division of Safety Programs
Brian Hadley, CE, Branch Chief
Caltrans, District 11
- Status Date - 11/10/2022 - The District inquired about modifying the experiment by increasing the application to other stages and segments of the project. The District has not submitted the request as of this date.
- Status Date – 9/26/2022 – all the temporary orange striping is in place in “Unit 4,” i.e., the zone planned for orange striping. All the cameras have been installed and configured by the UC Davis researchers, and they have collected about three months of data. Once the researchers have about a year’s worth of data, they will analyze it and come up with some insightful, quantitative results about how driver behavior (e.g., speed, lane position, average

number of lane departures, etc.), changed after standard white striping was replaced by the orange striping.

20-13 Request for approval of part-time travel on left shoulder (Yue Wang)

Roger D. Barnes, Traffic Operations Branch Chief
Caltrans, District 5 – San Luis Obispo

Status Date - 12/15/22 - The Project is currently in design and has been renamed Five Cities Multimodal Transportation Network Enhancement Project due to multimodal elements added to the project, a park and ride (aka mobility hub), electrification of the hub with solar powered charging stations, a transit stop and parking stalls for the Pismo Preserves overflow parking.

Status Date – 9/26/22 – The project has achieved signed PR and final PA&ED. The project had also completed its VA study as of the previous week. It's officially in the PS&E phase.

- Experimentation Process: <https://dot.ca.gov/-/media/dot-media/programs/safety-programs/documents/ctcdc/f0017778-public-hearing-and-experimentation-request-items-a11y.pdf>
- Sponsor Responsibilities: <https://dot.ca.gov/-/media/dot-media/programs/safety-programs/documents/ctcdc/f0017781-sponsor-guidelines-a11y.pdf>

6. **Public Hearing**

- The current chair and vice chairperson have been serving the committee in these roles since the November 5, 2020 CTCDC meeting.
- As per the Bylaws, the chairperson and vice chairperson shall be nominated, elected, and take office at the first meeting in the calendar year of the two-year term. Representatives of the California Highway Patrol and the California Department of Transportation are not eligible to be chairperson or vice chairperson. It shall be the chairperson's duty to moderate the meetings. The vice chairperson shall preside in the absence of the chairperson. If both are present, a temporary chairperson shall be chosen at the meeting.
- Chair and Vice Chairperson Elections
- The Bylaws of the CTCDC can be found at the following link: <https://dot.ca.gov/-/media/dot-media/programs/safety-programs/documents/ctcdc/f0017718-by-law-a11y.pdf>

6a. Consent Items (minor discussion with vote expected)

None

6b. Action Items (Continuing discussion from prior meetings with vote expected)

Item 21-06 6in Longitudinal Traffic lines on SHS

Recommendation:

Motion by committee to recommend 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.

Requesting Agencies/Sponsor:

John Bamfield, Caltrans / Yue Wang, CTCDC member

The proposal is provided as attachment to the agenda.

Item 21-16 Assembly Bills AB-43 and AB-1938 Implementation – Speed Limit Policy Revisions

Recommendation:

Motion by committee to recommend inclusion of the proposed change to the California Manual on Uniform Traffic Control Devices (CA MUTCD) Section 2B.13 text that was part of the motion passed during the November 3, 2022 meeting, recommending to Caltrans to incorporate it into CA MUTCD. This proposed change will revise the text that is being prepared to implement AB-43 provisions, as revised by AB-1938, in compliance with, and based on the two CTCDC motions, one passed during August 4, 2022 meeting and the other one passed during the November 3, 2022 CTCDC meeting.

This recommended motion is specific to only the text revisions shown in CA MUTCD Section 2B.13 titled "Speed Limit Sign (R2-1)" between paragraphs numbered "12y" through "12z" and inclusive of paragraph "12y". Refer to page 8 of 26. The entire text for CA MUTCD Section 2B.13 and all Tables relevant to Section 2B.13 that are being finalized are included in this proposal for ease in reviewing and for reference purposes.

This proposal addresses a critical comment that was submitted by Lt. Noah Hawkins, CHP Representative and CTCDC Voting member, after the November 3, 2022 CTCDC meeting, requesting a change to the final text that was part of the approved motion.

Requesting Agencies/Sponsor:

Pauline Wong, Caltrans / Yue Wang, CTCDC member

The proposal is provided as attachment to the agenda.

Item 22-10 Leading Pedestrian Interval Legislation AB-2264

Recommendation:

Motion by committee to recommend inclusion of the proposed changes to the California Manual on Uniform Traffic Control Devices (CA MUTCD) Section 4E.06 "Pedestrians Intervals and Signal Phases" to comply with Assembly Bill AB-2264 (effective January 1, 2023).

Requesting Agencies/Sponsor:

Michael C. Robinson, Caltrans / Yue Wang, CTCDC member

The proposal is provided as attachment to the agenda.



California Traffic Control Devices Committee (CTCDC) Meeting
Thursday, February 2, 2023 (09:00 am to End)



6c. Information Items (New items that may be voted on or brought back as an Action Item in a future meeting)

Item 22-08 SHSP Action SM.3 California Manual for Setting Speed Limits Revision

Recommendation:

None.

This is an informational item that is being continued from the previous meeting as Caltrans hasn't received any nominations from the CTCDC members. The CTCDC is being informed of this item in case any members would like to nominate engineering and traffic survey (E&TS) experts and/or practitioners to assist with the revision efforts.

Requesting Agencies/Sponsor:

Pauline Wong, Caltrans / Yue Wang, CTCDC member

The information item is provided as attachment to the agenda.

Item 22-12 2009 National MUTCD Revision 2 Final Pavement Ruling

Recommendation:

None.

This is an informational item that is being continued from the previous meeting to make agencies aware of FHWA's issuance of the Final Rule revising National MUTCD 2009 Edition. If agencies have completed their reviews and members are prepared to discuss the details of this National MUTCD 2009 Revision 3, this item can be brought back to the committee as an action item. California has 2 years from the effective date (9/6/2022) to adopt this final rule by incorporation it into California MUTCD (CA MUTCD).

Requesting Agencies/Sponsor:

John Bamfield, Caltrans / Yue Wang, CTCDC member

The information item is provided as attachment to the agenda.

6d. Request for Word Message Signs Approval

None



California Traffic Control Devices Committee (CTCDC) Meeting
Thursday, February 2, 2023 (09:00 am to End)



6e. Request for Experimentation

Item 16-09 Request for Closure of Experiment with Messages and Graphics on Dynamic Message Signs on Freeway

Recommendation:

Motion by committee to approve closure of this experiment in response to Caltrans' District 4 Traffic Operations' (experimenting agency) letter dated August 8, 2021, addressed to CTCDC Chair, and email dated January 19, 2023, addressed to CTCDC Secretary, requesting immediate closure of experiment.

Requesting Agencies/Sponsor:

David Man, Caltrans District 4 / Yue Wang, CTCDC Member

The notification of closure of experiment is provided as attachment to the agenda.

7. Next Meeting

Scheduled for May 4, 2023 virtually through Webex.

CTCDC Meetings Annual Schedule:

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- May (1st Thursday) – Virtual meeting, no In-Person location.
- August (1st Thursday) – In-Person only meeting, Southern CA location.
- November (1st Thursday) – Virtual meeting, no In-Person location.

8. Adjourn