

## NCUTCD Bicycle Technical Committee Meeting Minutes June 19th, 2001 Portland, ME

Present: Pete Rusch, John LaPlante, James Mackay, Michelle DeRobertis, Richard Moeur, Bob Carrigan, Jon Wertjes, Bill Fox, Ed Dressler, Ron Van Houten, Maggie Cusack,

Guests: Rudy Umbs – FHWA (rudolph.umbs@fhwa.dot.gov), Steve Garren - Avery Dennison, Jim Keaton

January 2001 Minutes - Approved unanimously

JL Erratas - only the grammatical errata changes were adopted by FHWA. NPA's will be this fall. Future NPA's may be yearly.

NPA's

#346 Resubmit

#347 Resubmit

#348 Resubmit, make sure that more than just the figure title is changed - the table itself must be changed. Item #347; need to change the rest of table 9B-1.

#349 Do nothing

#350 Do nothing

#351 Emphasize that the current table is incorrect - resubmit with changes, resubmit 9B-3 with additional justifications - change title,

#352 Do nothing

#353 Disagree - make Figure 9C-3 "Bicycle Lane Treatment at a Right Turn Only Lane" - provide justification. This is a standard application.

#354 Change the title and text (do not send them the figure) This is a standard application.

#355 Figure 9C-5 - we want the bicycle symbol (with the bicycle rider as an option)

#356 Figure 9C-6 - replace 9C-6 in its entirety (but make sure that even if they don't replace it, that they make all bike/rider icons leftbound)

#357 Do nothing

Thursday afternoon

Present: JL, PR, RM, JM, BF, MC, JW, MDR, ED, BC

NPA Comments email from Cherie Kittle regarding the use of the R3-17c arrow with the R3-17 Bike Lane signs

(send pictures of Denver usage of the R3-17 & R3-17c)

Resubmit to the NPA the correct R3-17, but only with the optional use of plaques A and B (not C). Justifications already submitted.

Resubmit the Ride With Traffic R9-3d as the R9-3c (since this is now the new, correct number in sequence)

Resubmit the R9-7 to show the bike on the left and the ped. on the right (as takes place in the real world) Faster users overtake on the left (common law, MUTCD - chapter 2C, UVC, and the rules of the road support this).

**\*We will go to the mat on this one - what is in the manual is what is commonly used.**

#4 Bicycle Signal Actuation Sign - Renumber to make it the R10-15

#19 Delete the word “in the bike lanes” at the end of the first sentence of the guidance paragraph and change to “on bikeways, where appropriate”.

#24 Bollards - redefine 9C-03 “Obstructions, including vertical elements used to preclude unauthorized motorized traffic from entering a shared use facility. These elements are often called “bollards” and may be permanently or temporarily fixed in a street or roadway.” ADD BOLLARD DEFINITION TEXT TO 9A.03

#27 Change to Guidance “Posts or raised pavement markers should not be used to separate bicycles from adjacent travel lanes. Raised devices create a collision for bicyclists by placing fixed objects immediately adjacent to the travel path of the bicyclist.

#29 Change language to “Signs shall be placed with preferential lane symbols at intervals determined by the authority having jurisdiction.” Justification - similar to HOV lanes, it may not be practicable to provide a sign at each physical location where a symbol may be desirable. Removing the wording that may be interpreted as requiring signs with every symbol may clarify this issue. Additional justification: 2B.48 Guidance “Preferential Lane symbol spacing should be determined by engineering judgment based on prevailing speed, block length, distances from adjacent intersections, and other considerations.”

#35 Pavement Marking Symbols (biker with helmet) The committee has been informed by a manufacturer production manager that they ship both kinds of markings (with and without helmet) and are widely available and in use.

Need to resubmit Human Factors Analysis on Bicycle Detector Symbol (again).  
New R10-15. The report on the human factors for this sign has been submitted to FHWA.

Table 9B-1 fix the typo to change from R5-2 to W5-2 (before resubmittal)

Bike, Skate and Ped. Allowed & Prohibited regulatory signs - status of submittal to sponsors?

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Prioritized topics:

- 1 Rumble Strips PR
- 2 Shared Use Arrow JM, MDR
- 3 Solid Colored Bike Lanes MC, BF, JW
- 4 Other street/trail crossing topics - warrants for signalized xings?, TO, MDR, JW
- 5 Parallel (in R.O.W.) Trail Intersection Crossing Warnings,
- 6 Bicyclist Actuated Flashing Bicycle Warning Signs
- 7 Use of Flashing In-Pavement Bicycle Warning Beacons
- 8 Roundabouts

JL Pavement Markings TC - raised barriers already covered in the AASHTO bike guide as an engineering issue (not a TCD issue)

PR Motorists passing bikes by crossing the yellow centerline - any definition in NCUTLO? National Committee wants ideas on new technologies and how that can impact safety. Strategic Planning - how do we fund any defined proposed research? Cities and others don't have funding to do experimentation.

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(This portion will be submitted as Committee Minutes)

Our committee worked both days, with twelve members present.

We have developed responses and additional justifications for all the comments we received from FHWA on the NPA Technical Errata. Will re-submit the major items we had submitted in the January 2001, including several symbol signs.

Worked with the markings committee to resolve several issues including the use of raised pavement markers between traffic and bike lanes.

Have identified and prioritized several issue areas for future work by the committee:

- #1 Shoulder Rumble Strips
- #2 Shared Use Lane Arrow
- #3 Solid Colored Bike Lanes - begin with work for approaches to and at intersections.

We will be interested in the signal warrants in the NCHRP project and working with the signals committee.

Regarding roundabouts, we are recommending that bike lanes shall not be placed in the circulating roadway of a roundabout (reference 3B.24 and 9C.04). The FHWA roundabout makes this recommendation that experienced bicyclists would operate in the center of the roundabout lane to avoid right turning vehicles. Less experienced bicyclists will more than likely operate like pedestrians.