

NCUTCD Bicycle Technical Committee
1/6/99

Present: Theo Petritsch, Charles Cadenhead, Sue Newberry, James Mackay, Bob Carrigan, John LaPlante, Richard Moeur, Tim Oliver

Sponsor comments

Sue Diamond symbol to be used only on HOV lanes in the future. We needed to create a replacement pavement marking for bike lanes.

Richard Many different ways to define a bike lane - need flexibility to address situations.

John AASHTO guide recommends against part-time bike lanes.

Richard In Phoenix, many bike lanes are daytime only - particularly in residential areas.

Theo Has seen motor vehicle lanes which become parking lanes at night.

Bike Lane Sign R3-17 comments

Theo The use of a supplemental plaque "Left Of Parking" may be useful in some situations. Other plaques could be "Right Of Turn Lane" (next to left turn lane), or left turn bay when a trail crosses mid-block allowing bicyclists to turn onto trail.

Sue Will keep sign as is, and allow for use of supplemental plaques.

Theo A median cut just for bicycles could be used for trail crossings, left turn bike lane, etc. A supplemental plaque "Left Of Turn Lane" with arrow might be used.

Sue Need to have the flexibility of a supplemental plaque so that practitioners will be able to address a variety of situations.

Theo Will the deletion of the word ONLY make it less likely to have enforcement for bike lanes?

Tim Bike lanes are sometimes used by wheelchair racers, golfcarts, etc. These uses don't create too many conflicts with low volumes of bikes.

Richard Supplemental plaques would include "AHEAD" and "END"

Sue Our stuff has not made it to docket yet. It has been through FHWA staff, and is being reviewed by the attorneys. We cannot see it until it has been published. The November

publish date has become January.

R10-x sign

Richard Sponsors made clear that we need to use same marking on sign and on pavement.

Theo Used STOP ON (figure) TO CHANGE SIGNAL in Fla.

Sue WAIT ON (figure) FOR GREEN

Unan. Agree to language

Sue Rider on bike symbol has already been approved - keep symbol two.

Figures 9-6c and 9-6d

Theo Florida uses an angled to the left arrow (instead of straight through arrow) at right turn trap lanes for bike lanes to direct bicyclists to the following portion of the bike lane.

Tim Bike is doing the straight through movement, car is doing the merge.

Sue We have deleted the figures, adopt text in replacement, continue to push the issue in the future.

John The shall language goes with a through lane. New Mexico took out the ‘through’ in their comments. Removal of “through” takes out the directive.

Sue The word “through” was not included in what was sent to sponsors.

Sue “Special care” language created some comments.

John Change standard to “A through bicycle lane should not be positioned to the right of a right turn only lane.”

Sue Keep standard as the standard (not guidance) Fix the support statement, make manual more specific.

John Draft support statement for standard - Theo, John will draft guidance for other situations.

Afternoon meeting

Alex Sorton, Michelle DeRobertis, Shulin Lee, Bill Fox, Ed Dressler, Ron Van Houten (plus

morning attendees) Also FHWA people- Tamara Broberg, Cherie Kittle,

Sue New manual will have a different look. Rulemaking was due in November - now January. We will get copies, and can check against what we submitted. We can comment through the national committee.

Cherie Web address <http://www.ohs.fhwa.dot.gov/devices/mutcd.html> The docket will probably be open for nine months. Docket comments can be viewed at <http://dms.dot.gov>

Sue Want to pick some timeframes for things we would like to see for our initiatives. When committee members bring an idea forward, bring data, purpose, need etc. so can include when sending to sponsors.

Sue Morning meeting reviewed sponsor comments - generated new versions of the R3-17 Bike Lane sign, and the R10-x Wait On (symbol) For Green signal detector sign.

Richard Looked at options for R10-x, will be keeping black on white as a regulatory sign (similar to ped pushbutton sign.)

Ron A one day college student test would be useful for human factors and comprehension check.

Cherie Can propose signs via docket comments.

Sue Pavement marking has been adopted by national committee.

Ron Can do a human factors study. But not a field study.

Theo Can do via Florida universities.

Sue Will have Ron and Tim do research on this sign, present results at June meeting.

Sue Trapped right turn bike lane - we are inserting "A THROUGH bicycle lane shall not be....."

Theo Will get a copy of UVC to support the priority of the straight movement over the turning movement.

John Will work on language to replace previous bike lane and right turn lane graphics.

Docket reviews

Michelle Section 2A-6 - reference sign sizes already defined in part 9. Section 2A-8 - reference sign heights already defined. Section 2D-23 parking area signs 2D-39 want to include bike parking sign D4-3 with car parking and park and ride signing.

Sue Can also submit individual comments.

Sue Dorin is not here and did not go through signals - she will do this evening.

Ron Ped signals task force is looking at the moving eyes ped signal.

Alex Markings part 3A.3 Materials - no reference to bikes (only peds) in tripping and slipping hazards. Also no bike reference in vertical or horizontal clearance hazards. Will take to Dan Centa, Pavement Markings Chair.

Richard Flashing crosswalk markings also an issue.

Alex 3B-13 Preferential lane markings for vehicles - diamond symbols are referenced, even though will no longer be used for bike lanes. Will take to Dan Centa, Pavement Markings Chair.

Bob Construction - no specific bike topics.

Ray Derr (from TRB) Funded research topics. TEA-21 increased research funds going to the states by about 50%. But FHWA research funds went down. NCHRP funding also exists. AASHTO standing committee on research is made up of state DOT people. Pooled fund studies likeliest for this group - from state DOTs.

Bill Official procedure for pooled research funding??

Ray State DOT research people would know. Also transit cooperative research program as well. Ray's phone 202-334-3231.

John Has now drafted language to replace the drop line graphics. The merge for the bike lane should be predicated on the speed of the motorists. Oregon DOT has a standard for this defined on their website.

Alex Section 3B-21 Lane Reduction marking has merge layout equation defined.

John Through bike lane markings resume to the left of the right turn lanes.

Theo Is now drafting language for through bike lane/right turn lane topic.

Richard 2D-39 Bicycle Parking Area sign language - include with other parking sign

information.

Visioning

Sue Want to discuss and agree on priorities for the next three years..

Committee Ideas Priorities could include

- * Colored Bike Lanes
- * Advance Stop Bar/Bike Box
- * Use of Bike Route signs (versus actually providing road space)
- * Intersection Treatments (street and off-street xings)
- * Shared Use Lane Pavement Marking Symbol
- * Research Based Changes
- * Encourage System Continuity
- * 9-6C and 9-6D Diagrams
- * Detour Signs (and other Chapter 6 topics, graphics)
- * Signal Timing
- * Bike-specific signals
- * Bicycle Dismount Sign
- * More signs
- * More detail in urban areas
- * Shared-Use Path Signs and Markings
- * Angled Bike Lane Pavement Marking Arrow at Right Turn Pocket
- * Roundabouts
- * Traffic Calming

- * Skewed Railroad Track Crossings
- * Striping of Gore Areas (rural)
- * Integrate Part 9 into MUTCD (versus separate chapter)
- * Shared Use Path Section
- * Trail (Path) Signs
- * Construction Part 6 Drawings to Include Bike Lanes, Off-Street bike facilities, etc.

Thursday Morning 1/7 - National Session

R3-17 Bike Lane sign - approved unanimously

9C-4 Through Bike Lane Support and Guidance

Dave Kummel - Need consistence in guidance statements - made editorial recommendations that can be addressed in edit committee.

Sue- withdraw line 15 - 18 for now. - will return entire page on Friday.

R10-x Signal Detection Sign

Sue - will bring back in June after Ron Van Houten research.

Afternoon

John 9B Guidance paragraph re: bicyclists dismounting - are recommending deletion, but need justifications before taking for approval.

Railroad Crossings - Dick Mather, Mather & Associates email:mather@open.org ph (503)362-4088

Has been dealing with railroad crossing issues as a railroad employee and DOT employee.

Need a standard for pedestrians and bicycles at RR xings. Has seen pedestrian and bicycle RR crossings in Australia & New Zealand with mazes at gates. Requires peds and bikes to deflect in advance of crossing.

Showed slides of various applications. Their committee will be looking at bike and ped crossing

topics more in the future.

Dick Luettig - Chair of R/W committee

Their committee needs to approve any R/W sign that would be used on roads prior to taking to national. R/W signs that would be used ONLY off-street we can propose directly to national. The bike trail/street crossing sign should be submitted to them- only need one version, with problem statement, sign purpose, etc. Can submit to them prior to the June meeting.

Ed Ohio trails topics and slideshow. Issues - safe, alternative human powered facilities.

Task Groups

Sue Wants to use the APBP listserve to solicit input for issues to focus on. These could be sent to committee members to put into priority order. Then have task groups focus on issues, generate text , drawings, etc.

Task Groups -

Signs:James, Richard, Michelle

Construction Bob, James, Theo

Colored Bike Lanes Bill, James, Michelle

Pedestrian Ron, Bill, Theo, Alex

Roundabouts- Chris Vogelsang, Theo

Traffic Calming Steve Brown, Charles Cadenhead, Tim Oliver, Tully

Shared Use Paths - Ed

We have also been asked about how Pedestrian Issues should be handled. If a separate committee is created, we would like to know about it.

John Task forces should have materials by April to send out. Task Force meetings will be on the Wednesday morning in Orlando. Want to send out task force recommendations *PRIOR* to the meeting.

Sue Will do visioning thing for priorities by mail, revised membership list with emails.

Tim Will review docket when it comes out for June meeting. Can get added support from APBP, put on website, etc.

Sue FHWA will send copy of docket to each member of our committee.

Richard FTP website - can post signs, etc. for committee to view. <ftp://members.aol.com/n7wtb/ncutcd/>

Sue Submit Taskforce materials to Sue by May first.

C&M Committee status on Bike/Ped Detour signs

The bike, ped., bike & ped. detour signs proposed will be re-submitted at the June meeting. Committee comments included: a potential need to make “leftbound” and “rightbound” images of the bike and ped. icons to correspond with left and right directional arrows; a potential need to replace the icons with text, and; a need to rework the guidance and option language.

Friday Morning National Session

9C-4 Approved, with one abstention (attached below)

Respectfully submitted,

James Mackay
Secretary

9C-4 Markings for Bicycle Lanes

STANDARD

A **through** bicycle lane shall not be positioned to the right of a right turn only lane.

SUPPORT

A bicyclist continuing straight through an intersection from the right of a right turn lane would be inconsistent with normal traffic behavior and violate the expectations of right turning motorists.

GUIDANCE

Typical bicycle lane markings at right turn lanes are shown in Figures 9C-6A and 9C-6B. When the right through lane is dropped to become a right turn only lane, the bike lane markings should stop at least 100 feet before the beginning of the right turn lane. Through bike lane markings resume to the left of the right turn only lane. An optional through-right turn lane next to a right turn only lane should not be used where there is a through bike lane. If a capacity analysis indicates the need for a optional through-right turn lane, the bike lane should be discontinued at the intersection approach.