



National Committee on Uniform Traffic Control Devices

17200 West Bell Road No.1135 * Surprise, Ariz. 85374
Telephone (623) 214-2403 * e-mail: ncutcd@aol.com

Attachment No.: 9
Item No.: 18B-BIK-01
BTC version 0.9

1
2
3
4
5
6
7
8

NCUTCD Proposal for Changes to the Manual on Uniform Traffic Control Devices

TECHNICAL COMMITTEE: Bicycle, Regulatory & Warnings Signs and Signal Committees
ITEM NUMBER: 18B-BIK-01
TOPIC: R10-15a Traffic Signal Sign – Turning Vehicles Yield to Bicycles or Bicycles & Pedestrians Revision to 6/20/2014 proposal
ORIGIN OF REQUEST: Bicycle/RWSTC/STC Joint Task Force
AFFECTED SECTIONS OF MUTCD: Sections 1A.13, 2B.53 and 9B.14

9

DEVELOPMENT HISTORY:

- 11 • Approved by Bicycle Technical Committee: 06/26/2014
- 12 • Concurrence by Regulatory Warning Sign Technical Committee 06/26/2014
- 13 • Approved by NCUTCD Council: 06/27/2014
- 14 • Revision Approved by Bicycle Technical Committee: 01/05/2018
- 15 • Revision Concurrence by Signals Technical Committee: 01/05/2018
- 16 • Revision Concurrence by RW Technical Committee: 06/21/2018
- 17 • Revision Approved by NCUTCD Council: XX/XX/XXX

18

19 *This is a proposal for recommended changes to the MUTCD that has been developed by*
20 *a technical committee of the NCUTCD. The NCUTCD is distributing it to its sponsoring*
21 *organizations for review and comment. Sponsor comments will be considered in revising*
22 *the proposal prior to NCUTCD Council consideration. This proposal does not represent a*
23 *revision of the MUTCD and does not constitute official MUTCD standards, guidance, or*
24 *options. If approved by the NCUTCD Council, the recommended changes will be*
25 *submitted to FHWA for consideration for inclusion in a future MUTCD revision. The*
26 *MUTCD can be revised only through the federal rulemaking process.*

27

SUMMARY:

28 The Manual currently includes the R10-15 sign to alert motorists of the need to watch for and
29 yield to pedestrians when turning. The Bicycle Technical Committee developed a proposal to
30 add two additional versions of the existing R10-15 sign to provide a more complete set of signs
31 to remind turning drivers to yield to bicyclists, or both bicyclists and pedestrians whose paths
32 they might cross when turning. The proposal was approved by Council in June 2014 however,
33

34 since then concerns have been raised regarding the use of this sign. This proposal seeks to
35 address those concerns with a revised proposal.

36
37 **DISCUSSION**

38 Generally, it is expected that motorists will yield to bicyclists as appropriate when merging into
39 bicycle lanes, bicycle lane extensions, separated bicycle lanes or turning across shared use paths.
40 The 2009 MUTCD added the Turning Vehicles Yield to Pedestrians (R10-15) sign for
41 pedestrians, yet there are no signs currently in the MUTCD for bicyclists or a combination of
42 these modes. As a result, there has been some proliferation of non-standard signs. The BTC
43 proposed to adapt the existing standard R10-15 sign with a bicycle symbol to address this issue.
44 A proposal was approved by Council in June 2014 to include a version for Turning Vehicles
45 Yield to Bicycles (R10-15a) and Turning Vehicles Yield to Bicycle and Pedestrians (R10-15b).

46
47 Subsequently, concerns have been raised regarding use of the R10-15a sign on approaches to
48 signalized intersections where bicycle and vehicle movements are separated by signal phasing or
49 where the bicycle lane transitions to a shared lane configuration as depicted in MUTCD Figure
50 9C-6.

51
52 Also, this sign has been installed by many jurisdictions at non-signalized intersections and
53 driveway crossings where vehicles turn across bicycle lanes, bicycle lane extensions, separated
54 bicycle lanes or shared-use paths. In addition, these signs have been illustrated for use at these
55 non-signalized locations in recent FHWA sponsored design guidance documents including *Small*
56 *Town and Rural Multimodal Networks December 2016*, the *Separated Bike Lane Planning and*
57 *Design Guide May 2015* and the *Massachusetts Department of Transportation Separated Bike*
58 *Lane Planning and Design Guide October 2015*.

59
60 To address the concerns noted above, this proposal seeks to revise the June 2014 approved
61 proposal to provide Standards, Guidance and Options for use of these signs in a uniform manner
62 at both signalized and unsignalized intersections.

63
64 **RECOMMENDED MUTCD CHANGES**

65
66 The following present the proposed changes to the current MUTCD within the context of the
67 current MUTCD language. Proposed additions to the MUTCD are shown in blue underline and
68 proposed deletions from the MUTCD are shown in ~~red strikethrough~~. Changes previously
69 approved by NCUTCD Council (but not yet adopted by FHWA) are shown in green double
70 underline for additions and ~~green double strikethrough~~ for deletions. In some cases, background
71 comments may be provided with the MUTCD text. These comments are indicated by
72 **[highlighted light blue in brackets]**.

73
74

75 **PART 2. SIGNS**

76
77 **CHAPTER 2B. REGULATORY SIGNS, BARRICADES AND GATES**

78
79 **Section 2B.53 Traffic Signal Signs (R10-5 through R10-30)**

80 Option:

81 01 To supplement traffic signal control, Traffic Signal signs R10-5 through R10-30 may be
82 used to regulate road users.

83 02 Traffic Signal signs (see Figure 2B-27) may be installed at certain locations to clarify signal
84 control. Among the legends that may be used for this purpose are LEFT ON GREEN ARROW
85 ONLY (R10-5), STOP HERE ON RED (R10-6 or R10-6a) for observance of stop lines, DO
86 NOT BLOCK INTERSECTION (R10-7) for avoidance of traffic obstructions, USE LANE(S)
87 WITH GREEN ARROW (R10-8) for obedience to lane-use control signals (see Chapter 4M),
88 LEFT TURN YIELD ON GREEN (symbolic circular green) (R10-12), and LEFT TURN YIELD
89 ON FLASHING RED ARROW AFTER STOP (R10-27).

90 *Guidance:*

91 03 *If used, the LEFT ON GREEN ARROW ONLY (R10-5) sign, the LEFT TURN YIELD ON*
92 *GREEN (symbolic circular green) (R10-12) sign, or the LEFT TURN YIELD ON FLASHING*
93 *RED ARROW AFTER STOP (R10-27) sign should be located adjacent to the left-turn signal*
94 *face.*

95 Option:

96 04 If needed for additional emphasis, an additional LEFT TURN YIELD ON GREEN
97 (symbolic circular green) (R10-12) sign with an AT SIGNAL (R10-31P) supplemental plaque
98 (see Figure 2B-27) may be installed in advance of the intersection.

99 05 In situations where traffic control signals are coordinated for progressive timing the Traffic
100 Signal Speed (I1-1) sign may be used (see Section 2H.03).

101 **Standard:**

102 06 **The CROSSWALK STOP ON RED (symbolic circular red) (R10-23) sign (see Figure**
103 **2B-27) shall only be used in conjunction with pedestrian hybrid beacons (see Section**
104 **4F.02).**

105 07 **The EMERGENCY SIGNAL (R10-13) sign (see Figure 2B-27) shall be used in**
106 **conjunction with emergency-vehicle traffic control signals (see Section 4G.02).**

107 08 **The EMERGENCY SIGNAL – STOP ON FLASHING RED (R10-14 or R10-14a) sign**
108 **(see Figure 2B-27) shall be used in conjunction with emergency-vehicle hybrid beacons (see**
109 **Section 4G.04.**

110 Option:

111 09 In order to remind drivers who are making turns at a signalized intersections to yield to or
112 stop **[approved June 2017, #16A-RW-02]** for pedestrians, ~~bicyclists, or both~~ **[approved**
113 **January 2014]** a Turning Vehicles Yield to (Stop For) Pedestrians (R10-15, R10-15a), Bicycles
114 (R10-15a) or Pedestrians and Bicycles (R10-15b) sign (see Figure 2B-27) may be used.

115 **Standard:**

116 09a **The Turning Vehicles Stop for Pedestrians (R10-15a) sign shall only be used in**
117 **jurisdictions where laws, ordinances or resolutions specifically require that a driver must**
118 **stop for a pedestrian. [approved January 2017, #16A-RW-02]**

121 Option:
122 09b At signalized intersections on roadways with a bicycle lane or separated bicycle lane
123 positioned adjacent to a general purpose lane from which turns are permitted, a Turning
124 Vehicles Yield to Bicycles (R10-15b) sign (see Figure 2B-27 and Figure 9C-6) may be used on
125 the approach to or at the intersection to remind drivers who are making turns to yield to a bicycle
126 in the bicycle lane when turning across or merging into the bicycle lane.

127 09c At signalized intersections on roadways with a shared use path that crosses intersecting
128 streets or driveways, a Turning Vehicles Yield to Bicycles and Pedestrians (R10-15c) sign (see
129 Figure 2B-27) may be used to remind drivers who are making turns to yield to bicycles and to
130 pedestrians in the crosswalk.

131 **Standard:**
132 **09d The Turning Vehicles Yield to Bicycles (R10-15b) sign shall not be used at signalized**
133 **intersections where the bicycle movement is protected by the signal phasing from any**
134 **conflicting simultaneous motor vehicle movement at the signalized location.**

135 Guidance:
136 09e The Turning Vehicles Yield to Bicycles sign should not be used at signalized intersections
137 where a bicycle lane or separated bicycle lane transitions to a shared lane for use by turning
138 vehicles together with through or turning bicyclists.

139 Support:
140 09g Use of R10-15b and R10-15c signs at unsignalized intersections and mid-block locations is
141 described in Section 9B.14

142 Option:
143 10 A U-TURN YIELD TO RIGHT TURN (R10-16) sign (see Figure 2B-27) may be installed
144 near the left-turn signal face if U-turn are allowed on a protected left-turn movement on an
145 approach from which a right-turn GREEN ARROW signal indication is simultaneously being
146 displayed to drivers making a right turn from the conflicting approach to their left.

147
148 **Add sign R10-15a to Figure 2B-27. Add * fluorescent yellow-green background color may**
149 **be used instead of yellow for this sign [approved June 2017]**



150
151
152

153 **PART 9. TRAFFIC CONTROL FOR BICYCLE FACILITIES**

154

155 **CHAPTER 9B. SIGNS**

156 **Section 9B.11 Bicycle Regulatory Signs (R9-5, R9-6, R10-4, R10-24, R10-25, and R10-26)**

157 Option:

158 06 ~~In order to remind drivers who are making turns to yield to pedestrians, bicyclists, or both, a~~
159 ~~Turning Vehicles Yield to Pedestrians (R10-15), Bicycles (R10-15a) or Pedestrians and Bicycles~~
160 ~~(R10-15b) sign (see Figure 2B-27) may be used. [approved June 2014]~~

162 **Section 9B.14 Other Regulatory Signs**

163 Option:

164 01 Other regulatory signs described in Chapter 2B may be installed on bicycle facilities as
165 appropriate.

166 02 At unsignalized intersections, driveways or alleys on roadways with a bicycle lane
167 positioned adjacent to a general purpose lane from which turns are permitted, a Turning Vehicles
168 Yield to Bicycles (R10-15b) sign (see Figure 2B-27 and Figure 9C-6) may be used on the
169 approach to or at the intersection, driveway or alley to remind drivers who are making turns to
170 yield to bicycles when turning across or merging into the bicycle lane.

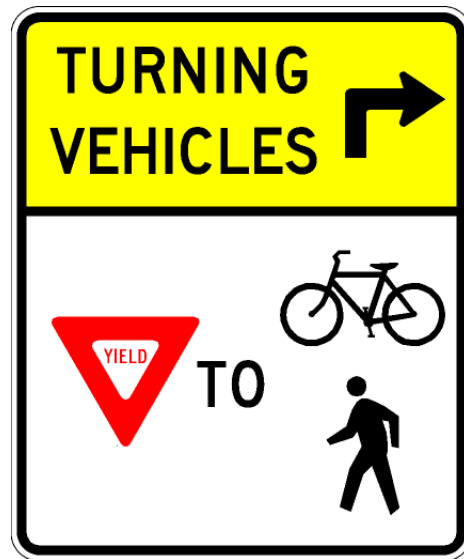
171 03 At unsignalized intersections, driveways or alleys on roadways with a shared use path that
172 crosses intersecting streets, driveways or alleys, a Turning Vehicles Yield to Bicycles and
173 Pedestrians (R10-15c) sign (see Figure 2B-27) may be used on the approach to or at the
174 intersection or driveway/alley to remind drivers who are making turns to yield to bicycles and to
175 pedestrians in the crosswalk.

176 Support:

177 04 Use of R10-15b and R10-15c signs at signalized intersections is described in Section 2B.53.
178 **The following two new signs are added to Figures 2B-27 and 9B-2]: [approved**
179 **June 2014**



180
181 **R10-15ab**
182 **30" x 30"**



R10-15bc
30" x 30"