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**Oregon Supplement to the
Manual on Uniform
Traffic Control Devices
for Streets and Highways
11th Edition**

This is a compilation of draft proposals for the Oregon Supplement to the MUTCD 11th Edition as of the version date above. This is not official Oregon Supplement content. This is provided for information only. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD.

The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD per [23 CFR 655.603\(b\)\(1\)](#). The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005. Neither of these decisions have occurred yet on the Oregon Supplement to the MUTCD 11th Edition.

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Document Organization

This is a compilation of draft proposals for the Oregon Supplement to the MUTCD 11th Edition. Proposals are organized by MUTCD part and proposal number. Use this document's bookmarks or table of contents to navigate to specific proposals.

Each proposal has a summary box, problem statement, discussion section, and proposed content for the Oregon Supplement.

Summary Box

- **MUTCD 11th Ed. Section(s) Affected** – this is a list of the sections the proposal affects in the 11th Edition MUTCD.
- **Last Revised** – this is the date the proposal was last revised.
- **Proposal No.** – This is the proposal number. It's formatted as [MUTCD Edition] [MUTCD Part] [2-digit sequential number within that part (e.g. 01, 02, 03...)]. For example, 11204 = 11th Edition, Part 2, 4th proposal.
- **Supplement Team** – The subcommittee that originated this proposal.
- **Status** – Where this proposal is in the MUTCD adoption process.
- **Type** – The type of proposal this is, compared to the Oregon Supplement to the 2009 MUTCD.
- **Summary** – an executive summary of the proposal's content.
- **Preamble material** – this reminds the reader the proposal is not final and describes the scope for the Oregon Supplement to the MUTCD.

Problem

This states the problem the proposal intends to address.

Discussion

This states why the problem needs to be solved along with supporting materials.

Proposed Supplement Content

This shows proposed changes to the MUTCD as supported by the problem and discussion sections. This marks material proposed for removal with ~~red strikethrough~~ and addition with blue underline. This shows the entire MUTCD section where the change is proposed to give the reader context, unless noted otherwise.

This section shows the only material that will be included in the final Oregon Supplement to the MUTCD – problem statements and discussion sections will not appear in the final Oregon Supplement.

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Part 1 – General

Proposal	Section(s)	Description
11101	1C.02	Modify “intersection” definition, keep “crossing order” definition.

Part 2 – Signs

Proposal	Section(s)	Description
11201	2B.19, 2B.59	Edits for Oregon’s stop for peds statute
11202	2B.21	Edits for speed limit signing at jurisdiction boundaries
11203	2B.28	Lane use signs – right turn only below a stop sign
11204	2B.60	No right turn on red
11205	2B.69, 2C.69	Add reference to Oregon’s photo enforcement statutes

Part 3 – Markings

Proposal	Section(s)	Description
11301	3A.04	Discernable space of a double line
11302	3B.19, 3I.02	Stop and yield lines
11303	3B.05	Two way left turn lanes
11304	3B.11	Line extensions through intersections
11305	3B.12	Correcting known errors in Figure 3B-14
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11308	3J.03	Green markings in medians

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11402	4D.02	Edits for crosswalk closure signing in Oregon statute
11403	4F.19	Operations during emergency preemption or bus priority
11404	4I.06	Walk time with leading pedestrian interval + walk interval with FYA
11405	4J.02, 4J.03	Alternative pedestrian hybrid beacon operation
11406	4K.01	Audible pedestrian signal speech messaging

Part 5 – Traffic Control Device Considerations for Automated Vehicles

No supplements proposed for Part 5.

Part 6 – Temporary Traffic Control

Proposal	Section(s)	Description
11601	N/A	Oregon Temporary Traffic Control Handbook

The Oregon Temporary Traffic Control Handbook (OTTCH) is the only supplement element planned for Part 6.

Part 7 – Traffic Control for School Areas

Section	Section(s)	Description
11701	7B.05	Oregon-specific materials and statutes on school speed zones
11702	7D.01	Add reference to Oregon Dept. of Education crossing guards materials
11703	7D.02	Crossing guards using SCHOOL flag instead of a STOP paddle

Part 8 – Traffic Control for Railroad and Light Rail Transit Grade Crossings

Proposal	Section(s)	Description
11801	8A.01, 8A.03, 8A.05	Rail division authorities in Oregon statute
11802	8B.28	STOP signs for trains (proposed new section)- Proposal dropped
11803	8B.29	Private crossing signs (proposed new section)
11804	8C.02	Rail grade crossing pavement markings
11805	8C.03	Rail stop line
11806	8D.02	Flashing light signals + audible warning devices
11807	8D.15	Light rail transit (LRT) signals for legacy installations (e.g. PBOT/Trimet)
11808	8E.03, 8E.07	Sign and flashing light signal size for pedestrians
11809	8B.04	Correcting reporting error/oversight in Figure 8B-2
11810	8B.06, 8C.02, 8C.03	Documentation about using Fig. 8C-1 instead of legacy Fig. 8B-6(OR)

Part 9 – Traffic Control for Bicycle Facilities

Proposal	Section(s)	Description
11901	9B.01	Acknowledging Oregon's stop-as-yield law
11902	9B.12	Edits for Oregon's right-of-way statutes on sidewalks Proposal dropped
11903	9B.15	Edits for Oregon's bicycle passing clearance law
11904	4A.05, 4H.03, 9B.22	Meaning of green bicycle signal indication, use of bicycle signal sign
11905	9D.01	Retain Oregon's bicycle destination/distance/travel time signs (OBD1-Xc)
11906	9D.06	Retain Oregon's non-numbered bicycle route signs (OBM1-8 & OBM1-8a)- proposal dropped
11907	9E.01	Bicycle lanes – Retain 8-inch line and bicyclist symbol marking with arrow
11908	9E.02, 9E.06	Solid lines for bicycle lanes on intersection approaches, edits to provisions for bicycle lane to the right of a right turn lane/left of a left turn lane
11909	9E.12	Bicycle box alignment at intersection stop line (crosswalk)
11910	9E.13	Markings for shared use path crossings
11911	9E.15	Bicycle detector markings
11912	9E.17	Correcting known error related to raised devices



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 1C.02 – Definitions	Last Revised January 03, 2025	Proposal No. 11101
Supplement Team 1-General	Status OTCDC Review – Round 2	Type New + Carryover
Summary (2-3 sentences) FHWA changed the definition of “intersection” in the 11th Edition MUTCD in a way that conflicts with Oregon’s statutory definition. This proposes to change subpart (c) of the MUTCD definition of “intersection” to align with ORS 801.320(4). This also proposes to keep the definition of Crossing Order from the 2009 MUTCD Supplement.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

- 2 FHWA changed the definition of “intersection” in the 11th Edition MUTCD in a way that conflicts with
3 Oregon’s definition in ORS 801.320.
- 4 Proposals for Part 8 in the Oregon Supplement also include the term “Crossing Order,” but this is not
5 defined in the 11th Edition MUTCD.

6 Discussion

7 Intersection Definition

- 8 Oregon did not change the definition of “intersection” in the Oregon Supplement to the 2009 MUTCD
9 because it did not conflict with the definition in ORS 801.320.

10 In the 11th Edition, FHWA changed the part of the definition of intersection related to divided
11 highways. While the changes make intuitive sense, Oregon’s definition in ORS 801.320(4) is closer to
12 the 2009 Edition’s definition. This makes a difference when considering where crosswalks are located
13 and obligations under ADA to make those crosswalks accessible.

14 This proposes to change subpart (c) of the MUTCD definition of “intersection” to align with ORS
15 801.320(4).

16 **Figure 1: MUTCD Changes to “Intersection” Definition from 2009 to 11th Edition**

94113. Intersection—intersection is defined as follows:

- (a) The area embraced within the prolongation or connection of the lateral curb lines, or if none, the lateral boundary lines of the roadways of two highways that join one another at, or approximately at, right angles, or the area within which vehicles traveling on different highways that join at any other angle might come into conflict.
- (b) The junction of an alley, ~~or driveway, or site roadway~~ with a public roadway or highway shall not constitute an intersection, unless the public roadway or highway at said junction is controlled by a traffic control device.
- (c) If a highway includes two roadways separated by a median, then every crossing of each roadway of such divided highway by an intersecting highway shall be a separate intersection if the opposing left-turn paths cross and there is sufficient interior storage for the design vehicle. (see Figure 2A-5). ~~If a highway includes two roadways that are 30 feet or more apart (see definition of Median), then every crossing of each roadway of such divided highway by an intersecting highway shall be a separate intersection.~~
- (d) ~~If both intersecting highways include two roadways that are 30 feet or more apart, then every crossing of any two roadways of such highways shall be a separate intersection.~~
- (e) At a location controlled by a traffic control signal, regardless of the distance between the separate intersections as defined in (c) ~~and (d)~~ above:
 - (1) If a stop line, yield line, or crosswalk has not been designated on the roadway (within the median) between the separate intersections, the two intersections and the roadway (median) between them shall be considered as one intersection;
 - (2) Where a stop line, yield line, or crosswalk is designated on the roadway on the intersection approach, the area within the crosswalk and/or beyond the designated stop line or yield line shall be part of the intersection; and
 - (3) Where a crosswalk is designated on a roadway on the departure from the intersection, the intersection shall include the area extending to the far side of such crosswalk.

17

801.320 “Intersection.”

“Intersection” means the area of a roadway created when two or more roadways join together at any angle, as described in one of the following:

- (1) If the roadways have curbs, the intersection is the area embraced within the prolongation or connection of the lateral curb lines.
- (2) If the roadways do not have curbs, the intersection is the area embraced within the prolongation or connection of the lateral boundary lines of the roadways.
- (3) The junction of an alley with a roadway does not constitute an intersection.
- (4) Where a highway includes two roadways 30 feet or more apart, then every crossing of each roadway of the divided highway by an intersection highway is a separate intersection. In the event the intersection highway also includes two roadways 30 feet or more apart, then every crossing of two roadways of such highways is a separate intersection.

18 **Crossing Order**

19 Proposals for supplement content in Part 8 refer to crossing orders issued by ODOT Rail Division.
20 Crossing order is defined in the Oregon Supplement to the 2009 MUTCD. This proposes to keep the
21 Crossing order definition in the Oregon Supplement with no modifications from the 2009 Supplement.
22 Keeping the definition helps clarify what a crossing order is and what entity can issue a crossing order.

23 **Figure 2: Crossing Order definition in Oregon Supplement to the 2009 MUTCD**

[Insert the following definitions after the last numbered item in Section 1A.13, P3:]

Crossing Order—written authorization issued by the State of Oregon through the Rail Division of its Department of Transportation granting or denying applications from public road authorities or railroads seeking to alter, construct, change protective devices, or eliminate highway-rail or highway-LRT grade crossings (in semi-exclusive alignments). Crossing Orders prescribe the time and manner of such alteration, change, installation or alteration, and the terms and conditions thereof.

24

25 **Other Changes Not Carried Forward from the 2009 Oregon Supplement**

26 The Oregon Supplement to the 2009 MUTCD included definitions for Diagnostic Team, Pedestrian
27 Clear Out Interval (PCOI), and Vehicle Clear Out Interval (VCOI) in Part 1. It also modified the
28 definition of a standard.

29 **Diagnostic Team** is now defined in the MUTCD 11th Edition (Definition 61), so the Oregon Supplement
30 does not need to define it anymore.

31 The MUTCD 11th Edition and the proposed Oregon Supplement to the MUTCD 11th Edition do not use
32 the terms **Pedestrian Clear Out Interval (PCOI)** and **Vehicle Clear Out Interval (VCOI)**, so the Oregon
33 Supplement does not need to define them anymore.

34 The Oregon Supplement also changed the definition of a standard by removing a sentence prohibiting
35 modifications of standards based on engineering judgement or engineering study. **No changes are**
36 **proposed to the definition of a standard in the 11th Edition.** The 11th Edition allows for modifications
37 of standards based on an engineering study, consistent with Revision 1 to the 2009 MUTCD from May
38 2012.

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 1C. DEFINITIONS, ACRONYMS, AND ABBREVIATIONS USED IN THIS MANUAL

Section 1C.02 Definitions of Words and Phrases Used in this Manual

Standard:

01 Unless otherwise defined in this Section, or in other Parts of this Manual, words or phrases shall
02 have the meaning(s) as defined in the “Uniform Vehicle Code,” “AASHTO Transportation Glossary
03 (Highway Definitions),” or other appropriate publications.

04 Where a term that is defined in this Section or elsewhere in this Manual has a different definition
05 in another resource or in common use, the definition herein shall govern for purposes of the
06 applicability of the provisions of this Manual.

07 The following words and phrases, when used in this Manual, shall have the following meanings:

[No modifications proposed for definitions 1 through 112.]

113. Intersection—intersection is defined as follows:

- (a) The area embraced within the prolongation or connection of the lateral curb lines, or if none, the lateral boundary lines of the roadways of two highways that join one another at, or approximately at, right angles, or the area within which vehicles traveling on different highways that join at any other angle might come into conflict.
- (b) The junction of an alley, driveway, or site roadway with a public roadway or highway shall not constitute an intersection, unless the public roadway or highway at said junction is controlled by a traffic control device.
- (c) If a highway includes two roadways separated by a median that is 30 feet wide or wider, then every crossing of each roadway of such divided highway by an intersecting highway shall be a separate intersection ~~if the opposing left-turn paths cross and there is sufficient interior storage for the design vehicle (see Figure 2A-5).~~ If both intersecting highways include two roadways separated by a median that is 30 feet wide or wider, then every crossing of any two roadways of such highways shall be a separate intersection.
- (d) At a location controlled by a traffic control signal, regardless of the distance between the separate intersections as defined in (c) above:

- 71 (1) **If a stop line, yield line, or crosswalk has not been designated on the roadway**
72 **(within the median) between the separate intersections, the two intersections and**
73 **the roadway (median) between them shall be considered as one intersection;**
- 74 (2) **Where a stop line, yield line, or crosswalk is designated on the roadway on the**
75 **intersection approach, the area within the crosswalk and/or beyond the**
76 **designated stop line or yield line shall be part of the intersection; and**
- 77 (3) **Where a crosswalk is designated on a roadway on the departure from the**
78 **intersection, the intersection shall include the area extending to the far side of**
79 **such crosswalk.**

80 [No modifications proposed for definitions 114 through 295.]

81 **296. Crossing Order – written authorization issued by the State of Oregon through the Rail Division**
82 **of its Department of Transportation granting or denying applications from public road**
83 **authorities or railroads seeking to alter, construct, change protective devices, or eliminate**
84 **highway-rail or highway-LRT grade crossings (in semi-exclusive alignments). Crossing Orders**
85 **prescribe the time and manner of such alteration, change, installation, or alteration, and the**
86 **terms and conditions thereof.**



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 2B.19 – Yield Here to Pedestrians Signs and Stop Here for Pedestrians Signs, 2B.59 – Traffic Signal Signs and Plaques	Last Revised January 03, 2025	Proposal No. 11201
Supplement Team 2-Signs-R&W	Status FHWA Review – Round 1	Type Carryover
Summary (2-3 sentences) Drivers must stop for pedestrians in Oregon. The MUTCD 11th Edition gives the option of using either yield or stop control for crosswalks. However, it says you can only use stop if that is the law. Confusion may arise from this statement – it would be clearer to say you have to use stop if that is the law.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 **Problem**

- 2 The MUTCD 11th Edition shows both yielding and stopping for pedestrians for traffic control and signs.
3 Oregon is a stop for pedestrian state.

4 **Discussion**

- 5 ORS 811.028 requires drivers to stop for pedestrians crossing a roadway within a marked or unmarked
6 crosswalk. This proposes to clear confusion by removing “yield to pedestrian” language.

811.028 Failure to stop and remain stopped for pedestrian; penalty.

- (1) The driver of a vehicle commits the offense of failure to stop and remain stopped for a pedestrian if the driver does not stop and remain stopped for a pedestrian when the pedestrian is:
 - (a) Proceeding in accordance with a traffic control device as provided under ORS 814.010 or crossing the roadway in a crosswalk; and
 - (b) In any of the following locations:
 - (A) In the lane in which the driver's vehicle is traveling;
 - (B) In a lane adjacent to the lane in which the driver's vehicle is traveling;
 - (C) In the lane into which the driver's vehicle is turning;
 - (D) In a lane adjacent to the lane into which the driver's vehicle is turning, if the driver is making a turn at an intersection that does not have a traffic control device under which a pedestrian may proceed as provided under ORS 814.010; or
 - (E) Less than six feet from the lane into which the driver's vehicle is turning, if the driver is making a turn at an intersection that has a traffic control device under which a pedestrian may proceed as provided under ORS 814.010.
- (2) For the purpose of this section, a bicycle lane or the part of a roadway where a vehicle stops, stands or parks that is adjacent to a lane of travel is considered to be part of that adjacent lane of travel.
- (3) This section does not require a driver to stop and remain stopped for a pedestrian under any of the following circumstances:
 - (a) Upon a roadway with a safety island, if the driver is proceeding along the half of the roadway on the far side of the safety island from the pedestrian; or
 - (b) Where a pedestrian tunnel or overhead crossing has been provided at or near a crosswalk.
- (4) For the purposes of this section, a pedestrian is crossing the roadway in a crosswalk when any part or extension of the pedestrian, including but not limited to any part of the pedestrian's body, wheelchair, cane, crutch or bicycle, moves onto the roadway in a crosswalk with the intent to proceed.
- (5) The offense described in this section, failure to stop and remain stopped for a pedestrian, is a Class B traffic violation. [2005 c.746 §2; 2011 c.507 §1]

7 Proposed Supplement Content

8 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
9 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

10 CHAPTER 2B. REGULATORY SIGNS, BARRICADES, AND GATES

11 Section 2B.19 ~~Yield Here To Pedestrians Signs and Stop Here For Pedestrians Signs (R1-5 Series)~~

12 Support:

13 01 The R1-5 series signs are intended to mitigate the scenario that can place pedestrians at risk by blocking
14 other drivers' view of pedestrians and by blocking the pedestrians' view of the vehicles approaching in the
15 adjacent lanes.

16 **Standard:**

17 02 ~~Yield Here to (Stop Here for) Pedestrians (R1-5, R1-5a, R1-5b, R1-5c, R1-5d, and R1-5e) signs~~
18 (see Figure 2B-2) shall be used if ~~yield (stop)~~ lines are used in advance of a marked crosswalk only
19 where it crosses an uncontrolled multi-lane approach. The Stop Here for Pedestrians signs shall only
20 be used where the law specifically requires that a driver must stop for a pedestrian in a crosswalk.
21 The legend STATE LAW shall not be displayed on the R1-5 series signs.

22 *Guidance:*

23 03 ~~If yield (stop) lines and Yield Here to (Stop Here for) Pedestrians signs are used in advance of a~~
24 ~~crosswalk that crosses an uncontrolled multi-lane approach, the signs should be placed 20 to 50 feet in~~
25 ~~advance of the nearest edge of the crosswalk (see Section 3B.19 and Figure 3B-16).~~

26 **Standard:**

27 04 **When used with a School Crossing assembly within school zones (see Part 7), the ~~R1-5a and R1-5c~~**
28 **signs shall be used in place of the R1-5 and R1-5b signs in accordance with Paragraph 2 of this**
29 **Section.**

30 05 **When used with a Trail Crossing assembly (see Section 2C.54), the ~~R1-5d and R1-5e~~ signs shall be**
31 **used in place of the ~~R1-5 and R1-5b~~ signs in accordance with Paragraph 2 of this Section.**

32 *Guidance:*

33 06 ~~When Yield Here to (Stop Here for) Pedestrians signs are provided in advance of a crosswalk across a~~
34 ~~multi-lane approach, parking should be prohibited in the area between the yield (stop) line and the~~
35 ~~crosswalk.~~

36 07 ~~Yield (stop) lines and Yield Here to (Stop Here for) Pedestrians signs should not be used in advance of~~
37 ~~crosswalks that cross an approach to or departure from a roundabout.~~

38 **Option:**

39 08 ~~Yield Here to (Stop Here for) Pedestrians signs may be used in accordance with Paragraphs 2 through 4~~
40 ~~of this Section even if yield (stop) lines are not used.~~

41 09 A Pedestrian Crossing (W11-2) warning sign may be placed overhead or may be post-mounted with a
42 diagonal downward-pointing arrow (W16-7P) plaque at the crosswalk location where ~~Yield Here to (Stop~~
43 ~~Here for)~~ Pedestrians signs have been installed in advance of the crosswalk.

44 **Standard:**

45 10 **If a W11-2 sign is post-mounted at the crosswalk location where a ~~Yield Here to (Stop Here for)~~**
46 **Pedestrians sign is used on the approach, the ~~Yield Here to (Stop Here for)~~ Pedestrians sign shall not**
47 **be placed on the same post as the W11-2 sign.**

48 Option:

49 11 An advance Pedestrian Crossing (W11-2) warning sign with an AHEAD or a distance supplemental
50 plaque may be used in conjunction with a ~~Yield Here to (Stop Here for)~~ Pedestrians sign on the approach to
51 the same crosswalk.

52 12 In-Street Pedestrian Crossing signs and ~~Yield Here to (Stop Here for)~~ Pedestrians signs may be used
53 together at the same crosswalk.

54 **Section 2B.59 Traffic Signal Signs and Plaques (R10-5 through R10-30)**

55 Option:

56 01 To supplement traffic signal control, traffic signal (R10-5 through R10-30) signs (see Figure 2B-28)
57 may be used to regulate road users.

58 02 Traffic signal signs may be installed at certain locations to clarify signal control. Among the legends
59 that may be used for this purpose are:

- 60 A. LEFT (RIGHT) ON GREEN ARROW ONLY (R10-5),
- 61 B. STOP HERE ON RED (R10-6 or R10-6a) for observance of stop lines,
- 62 C. DO NOT BLOCK INTERSECTION (R10-7) for avoidance of traffic obstructions,
- 63 D. USE LANE(S) WITH GREEN ARROW (R10-8) for obedience to lane-use control signals (see
64 Chapter 4T),
- 65 E. LEFT (RIGHT) TURN SIGNAL (R10-10),
- 66 F. U TURN SIGNAL (R10-10a) for exclusive control of a U-turn movement,
- 67 G. U TURN YIELD TO RIGHT TURN (R10-16),
- 68 H. LEFT (RIGHT) TURN YIELD ON GREEN (symbolic circular green) (R10-12),
- 69 I. LEFT (RIGHT) TURN YIELD ON FLASHING YELLOW ARROW (R10-12a), and
- 70 J. LEFT (RIGHT) TURN YIELD ON FLASHING RED ARROW AFTER STOP (R10-27).

71 *Guidance:*

72 03 *If used, the LEFT ON GREEN ARROW ONLY sign, the LEFT TURN SIGNAL sign, the LEFT TURN*
73 *YIELD ON GREEN (symbolic circular green) sign, the LEFT TURN YIELD ON FLASHING YELLOW*
74 *ARROW sign, or the LEFT TURN YIELD ON FLASHING RED ARROW AFTER STOP sign should be*
75 *located adjacent to the left-turn signal face.*

76 04 *If used, the RIGHT ON GREEN ARROW ONLY sign, the RIGHT TURN SIGNAL sign, the RIGHT*
77 *TURN YIELD ON FLASHING YELLOW ARROW sign, or the RIGHT TURN YIELD ON FLASHING RED*
78 *ARROW AFTER STOP sign should be located adjacent to the right-turn signal face.*

79 05 *A U TURN YIELD TO RIGHT TURN (R10-16) sign should be installed near the left-turn signal face if*
80 *U-turns are allowed on a protected left-turn movement on an approach from which a right-turn GREEN*
81 *ARROW signal indication is simultaneously being displayed to drivers making a right turn from the*
82 *conflicting approach to their left.*

83 Option:

84 06 If used, a U TURN SIGNAL (R10-10a) sign may be installed adjacent to the signal face that
85 exclusively controls a U-turn movement.

86 07 If needed for additional emphasis, an additional LEFT TURN YIELD ON GREEN (symbolic circular
87 green) (R10-12) sign with an AT SIGNAL (R10-31P) supplemental plaque (see Figure 2B-28) may be
88 installed in advance of the intersection.

89 08 In situations where traffic control signals are coordinated for progressive timing, the Traffic Signal
90 Speed (I1-1) sign may be used (see Section 2H.04).

91 **Standard:**

92 09 **The CROSSWALK—STOP ON RED (symbolic circular red) (R10-23) and STOP ON STEADY**
93 **RED YIELD ON FLASHING RED AFTER STOP (R10-23a) signs (see Figure 2B-28) shall only be**
94 **used in conjunction with pedestrian hybrid beacons (see Section 4J.02).**

95 10 **The EMERGENCY SIGNAL (R10-13) sign (see Figure 2B-28) shall be used in conjunction with**
96 **emergency-vehicle traffic control signals (see Section 4M.02).**

97 11 **The EMERGENCY SIGNAL—STOP ON FLASHING RED (R10-14 or R10-14a) sign (see Figure**
98 **2B-28) shall be used in conjunction with emergency-vehicle hybrid beacons (see Section 4N.02).**

99 Option:

100 12 If needed for extra emphasis, a STOP HERE ON FLASHING RED (R10-14b) sign may be installed
101 with an emergency-vehicle hybrid beacon.

102 **Standard:**

103 13 **The Left Turn Yield to Bicycles (R10-12b) sign shall be limited to applications where the**
104 **conflicting bicyclist movement would be unexpected in direction, location, or similar condition that**
105 **would tend to violate the expectation of a turning motorist.**

106 *Guidance:*

107 14 *The Left Turn Yield to Bicycles sign should be located adjacent to the left-turn signal face.*

108 Option:

109 15 If needed for additional emphasis, an additional Left Turn Yield to Bicycles sign with an AT SIGNAL
110 (R10-31P) supplemental plaque (see Figure 2B-28) may be installed in advance of the intersection for
111 motor vehicles.

112 16 Where conditions might warrant additional emphasis to drivers turning at a signalized intersection
113 where potential pedestrian conflicts might not be readily apparent, a Turning Vehicles ~~Yield to (Stop for)~~
114 ~~Pedestrians (R10-15, R10-15a)~~ sign (see Figure 2B-28) may be used.

115 **Standard:**

116 17 **The Turning Vehicles Stop for Pedestrians (R10-15a) sign shall only be used in jurisdictions where**
117 **laws, ordinances or resolutions specifically require that a driver must stop for a pedestrian.**

118 *Guidance:*

119 18 *The R10-15 series signs, where used, should be placed as follows:*

120 *A. On the near right corner of the signalized intersection for right-turning vehicles.*

121 *B. On the far left corner of the signalized intersection for the left-turning vehicles onto a two-way*
122 *street.*

123 *C. On the near left corner of the signalized intersection for left-turning vehicles from a one-way street*
124 *onto a one-way street.*



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 2B.21 Speed Limit Sign (R2-1)	Last Revised January 03, 2025	Proposal No. 11202
Supplement Team 2-Signs-R&W	Status OTCDC Review – Round 2	Type Carryover
Summary (2-3 sentences) Section 2B.21 Paragraph 16 sets a standard that implies that speed limit signs must show all statutory speed limits in the state at entrances to the state. This would unnecessarily distract road users from their immediate driving task. Instead, Oregon’s road authorities post statutory and designated speed limits at points of change from one speed limit to another. This proposes to modify Section 2B.21 by clarifying that such a sign applies to the speed limit for that highway at that location, consistent with modifications in the Oregon Supplement to the 2009 MUTCD.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Section 2B.21 Paragraph 16 sets a standard that implies that speed limit signs must show all statutory
3 speed limits in the state at entrances to the state.

4 Discussion

5 Section 2B.21 Paragraph 16 sets a standard:

6 “Speed limit signs indicating the statutory speed limits shall be installed at entrances to the
7 State and, where appropriate, at jurisdictional boundaries in urban areas.”

8 This implies that at entrances to the state, speed limit signs must list all the statutory speed limits in the
9 state at entrances to the state. This appeared in the 2009 MUTCD in Section 2B.13 Paragraph 05.

10 Oregon has 9 different statutory speed limits listed in ORS 811.111. Some of these have added nuances
11 described in the statute, like applying to specific vehicle types or specific highway classifications (e.g.
12 interstate and non-arterial highway). This does not include specific highway segments listed in ORS
13 811.111.

14 To install signs at entrances to the state showing these 9 statutory speed limits would violate basic
15 traffic control device design principles in Chapter 1D and basic sign design principles in Chapter 2A.
16 Posting such a sign or signs would not convey a simple message producing a clear meaning. Such a
17 large sign or series of signs would draw the road user's attention away from the immediate driving
18 task and would not convey an actionable message for that location. For example, a driver entering the
19 state on an interstate highway may not drive in a residence district for several hours after passing the
20 sign. Similarly, a driver entering the state on a secondary highway may not travel on an interstate to
21 complete their trip.

22 Instead, Oregon's road authorities post statutory and designated speed limits at points of change from
23 one speed limit to another as specified in 2B.21 Paragraphs 13-15. This provides drivers information
24 they need for their immediate driving task at that location.

25 For the reasons described above, this proposes to modify Section 2B.21 consistent with modifications in
26 the Oregon Supplement to the 2009 MUTCD.

27 FHWA made several other modifications to the speed limit sign section, including emphasizing context
28 when conducting an engineering study to set non-statutory speed limits. Oregon's current speed
29 zoning practices adopted in Oregon Administrative Rules are consistent with Section 2B.21 in the 11th
30 Edition of the MUTCD.

811.111 Violating a speed limit; penalty.

- (1) A person commits the offense of violating a speed limit if the person:
- (a) Drives a vehicle on an interstate highway, except for the portions of interstate highway described in subsection (2) of this section, at a speed greater than 65 miles per hour or, if a different speed is posted under ORS 810.180, at a speed greater than the posted speed.
 - (b) Notwithstanding paragraph (a) of this subsection, drives any of the following vehicles at a speed greater than 55 miles per hour on any highway, except for the portions of highway described in subsections (2) to (12) of this section, or, if a different speed is posted under ORS 810.180, at a speed greater than the posted speed:
 - (A) A motor truck with a gross vehicle weight rating of more than 10,000 pounds or a truck tractor with a gross vehicle weight rating of more than 8,000 pounds.
 - (B) A school bus.
 - (C) A school activity vehicle.
 - (D) A worker transport bus.
 - (E) A bus operated for transporting children to and from church or an activity or function authorized by a church.

- (F) Any vehicle used in the transportation of persons for hire by a nonprofit entity.
- (c) Drives a vehicle or conveyance on any part of the ocean shore in this state at a speed greater than any of the following:
 - (A) Any designated speed for ocean shores that is established and posted under ORS 810.180.
 - (B) If no designated speed is posted under ORS 810.180, 25 miles per hour.
- (d) Except as otherwise provided in this section, drives a vehicle upon a highway at a speed greater than a speed posted by authority granted under ORS 810.180 or, if no designated speed is posted, the following:
 - (A) Fifteen miles per hour when driving on an alley or a narrow residential roadway.
 - (B) Twenty miles per hour in a business district.
 - (C) Twenty-five miles per hour in a public park.
 - (D) Twenty-five miles per hour on a highway in a residence district if the highway is not an arterial highway.
 - (E) Sixty-five miles per hour on an interstate highway.
 - (F) Fifty-five miles per hour in locations not otherwise described in this paragraph.
- (e) Drives a vehicle in a school zone at a speed greater than 20 miles per hour if the school zone is:
 - (A) A segment of highway described in ORS 801.462 (1)(a) and:
 - (i) The school zone has a flashing light used as a traffic control device and operated as provided under ORS 810.243; or
 - (ii) If the school zone does not have a flashing light used as a traffic control device, the person drives in the school zone between 7 a.m. and 5 p.m. on a day when school is in session.
 - (B) A crosswalk described in ORS 801.462 (1)(b) and:
 - (i) A flashing light is used as a traffic control device and operated as provided under ORS 810.243; or
 - (ii) Children are present, as described in ORS 811.124.
- (2) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of Interstate 84 beginning at the eastern city limit of The Dalles and ending at the Idaho state line at a speed greater than:
 - (a) Sixty-five miles per hour for vehicles described in subsection (1)(b) of this section; or
 - (b) Seventy miles per hour for all other vehicles.
- (3) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of U.S. Highway 95 beginning at the Idaho state line and ending at the Nevada state line at a speed greater than:
 - (a) Sixty-five miles per hour for vehicles described in subsection (1)(b) of this section; or
 - (b) Seventy miles per hour for all other vehicles.
- (4) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of U.S. Highway 20 beginning in Bend and ending in Ontario at a speed greater than:

- (a) Sixty miles per hour for vehicles described in subsection (1)(b) of this section; or
 - (b) Sixty-five miles per hour for all other vehicles.
- (5) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of U.S. Highway 197 beginning in The Dalles and ending at its intersection with U.S. Highway 97 and the portion of U.S. Highway 97 beginning at its intersection with U.S. Highway 197 and ending at the California state line at a speed greater than:
- (a) Sixty miles per hour for vehicles described in subsection (1)(b) of this section; or
 - (b) Sixty-five miles per hour for all other vehicles.
- (6) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of State Highway 31 beginning in Valley Falls and ending in La Pine at a speed greater than:
- (a) Sixty miles per hour for vehicles described in subsection (1)(b) of this section; or
 - (b) Sixty-five miles per hour for all other vehicles.
- (7) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of State Highway 78 beginning in Burns Junction and ending in Burns at a speed greater than:
- (a) Sixty miles per hour for vehicles described in subsection (1)(b) of this section; or
 - (b) Sixty-five miles per hour for all other vehicles.
- (8) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of U.S. Highway 395 beginning in Burns and ending in John Day at a speed greater than:
- (a) Sixty miles per hour for vehicles described in subsection (1)(b) of this section; or
 - (b) Sixty-five miles per hour for all other vehicles.
- (9) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of U.S. Highway 395 beginning in Riley and ending at the California state line at a speed greater than:
- (a) Sixty miles per hour for vehicles described in subsection (1)(b) of this section; or
 - (b) Sixty-five miles per hour for all other vehicles.
- (10) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of Oregon Route 205 beginning in Burns and ending in Frenchglen at a speed greater than:
- (a) Sixty miles per hour for vehicles described in subsection (1)(b) of this section; or
 - (b) Sixty-five miles per hour for all other vehicles.
- (11) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of U.S. Highway 26 beginning in John Day and ending in Vale at a speed greater than:
- (a) Sixty miles per hour for vehicles described in subsection (1)(b) of this section; or
 - (b) Sixty-five miles per hour for all other vehicles.
- (12) A person commits the offense of violating a speed limit if the person drives a vehicle on the portion of Interstate 82 beginning at the Washington state line and ending at its intersection with Interstate 84 at a speed greater than:

- (a) Sixty-five miles per hour for vehicles described in subsection (1)(b) of this section; or
- (b) Seventy miles per hour for all other vehicles.

(13) The speed limits described in subsections (3) to (5) of this section do not apply to portions of highways inside of a city in this state.

(14) The offense described in this section, violating a speed limit, is punishable as provided in ORS 811.109.

[2003 c.819 §4; 2003 c.819 §4a; 2005 c.573 §1; 2005 c.770 §6; 2007 c.367 §4; 2015 c. 139 §2; 2015 c.283 §5; 2015 c.746 §1; 2016 c.1 §1; 2019 c.515 §2; 2023 c.9 §53]

31 Proposed Supplement Content

32 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
33 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

34 CHAPTER 2B. REGULATORY SIGNS, BARRICADES, AND GATES

35 Section 2B.21 Speed Limit Sign (R2-1)

36 Support:

- 37 01 In general, the maximum speed limits applicable to rural and urban roads are established:
- 38 A. Statutorily – a maximum speed limit applicable to a particular class of road, such as freeways or
 - 39 city streets, that is established by State law; or
 - 40 B. As speed zones – based on engineering studies.
- 41 02 State statutory limits might restrict the maximum speed limit that can be established on a particular
- 42 road, notwithstanding what an engineering study might indicate.
- 43 03 Agencies with designated authorities to set speed limits, which include States, and sometimes local
- 44 jurisdictions, can establish non-statutory speed limits or designate reduced speed zones using an
- 45 engineering study. Setting appropriate speed limits is especially important to ensure safety for all road users
- 46 in varying types of contexts, particularly on roadways where adjacent land use suggests that trips could be
- 47 served by varied modes. These situations include urban and suburban non-freeway arterials or rural arterials
- 48 that serve as main streets in smaller communities, consistent with the context classifications of urban core,
- 49 urban, suburban, and rural towns found in “A Policy on Geometric Design of Highways and Streets,” 2018
- 50 Edition, AASHTO. When setting a speed limit, a range of factors such as land-use context, pedestrian and
- 51 bicyclist activity, crash history, intersection spacing, driveway density, roadway geometry, roadside
- 52 conditions, roadway functional classification, traffic volume, and observed speeds can influence the speed
- 53 limit determined in the engineering study. The engineering study will determine which of the recommended
- 54 factors will prevail in setting the speed limit.
- 55 04 Jurisdictions can use speed limit setting tools and methods such as expert systems and those consistent
- 56 with the safe system approach as part of the required engineering study for a non-statutory speed limit. As
- 57 speed limit setting tools vary, jurisdictions need to be aware of their limitations and advantages, possible
- 58 variation between the tools and the need to explore gaps or weaknesses of tools, and weigh the output
- 59 accordingly in consideration of setting speed limits.

60 05 To achieve desired operating speeds, agencies often implement other speed management strategies
61 concurrently with setting speed limits, such as traffic calming measures, geometric design features, speed
62 safety cameras, and increased enforcement.

63 **Standard:**

64 06 **Speed zones (other than statutory speed limits) shall only be established on the basis of an**
65 **engineering study that has been performed in accordance with traffic engineering practices. The**
66 **engineering study shall consider the roadway context.**

67 *Guidance:*

68 07 *Among the factors that should be considered when conducting an engineering study for establishing or*
69 *reevaluating speed limits within speed zones are the following:*

- 70 A. *Roadway environment (such as roadside development, number and frequency of driveways and*
71 *access points, and land use), functional classification, public transit volume and location or*
72 *frequency of stops, parking practices, and pedestrian and bicycle facilities and activity;*
- 73 B. *Roadway characteristics (such as lane widths, shoulder condition, grade, alignment, median type,*
74 *and sight distance);*
- 75 C. *Geographic context (such as an urban district, rural town center, non-urbanized rural area, or*
76 *suburban area), and multi-modal trip generation;*
- 77 D. *Reported crash experience for at least a 12-month period;*
- 78 E. *Speed distribution of free-flowing vehicles including the pace, median (50th-percentile), and 85th*
79 *percentile speeds; and*
- 80 F. *A review of past speed studies to identify any trends in operating speeds.*

81 08 *When the 85th-percentile speed is appreciably greater than the posted speed limit, and the roadway*
82 *context does not support setting a higher speed limit, the engineering study should consider whether*
83 *changes to geometric features, enforcement, and/or other speed-reduction countermeasures might improve*
84 *compliance with the posted speed limit. A similar approach should be used if the results of past speed*
85 *studies indicate that the 85th-percentile speed has consistently increased.*

86 09 *On urban and suburban arterials, and on rural arterials that serve as main streets through developed*
87 *areas of communities, the 85th-percentile speed should not be used to set speed limits without consideration*
88 *of all factors described in Paragraph 7 of this Section.*

89 10 *On a freeway, expressway, or rural highway (outside urbanized locations or conditions), the speed limit*
90 *that is posted within a speed zone should be within 5 mph of the 85th-percentile speed of free-flowing*
91 *motor-vehicle traffic under the following conditions:*

- 92 A. *All factors described in Paragraph 7 of this Section have been considered and determined to be*
93 *non-mitigating, and*
- 94 B. *The measures described in Paragraph 8 of this Section have been considered to the extent*
95 *practicable.*

96 11 *State and local agencies should conduct engineering studies to reevaluate non-statutory speed limits on*
97 *segments of their roadways that have undergone significant changes since the last review (such as changes*
98 *to roadway context, the addition or elimination of parking or driveways, changes in the number of travel*
99 *lanes, changes in the configuration of bicycle lanes, changes to road geometrics, changes in traffic control*
100 *signal coordination, or significant changes in traffic volumes).*

101 12 *Speed studies for signalized intersection approaches should be taken outside the influence area of the*
102 *traffic control signal, which is generally considered to be approximately 1/2 mile, to avoid obtaining*
103 *skewed results for the speed distribution. If the signal spacing is less than 1 mile, the speed study should be*
104 *at approximately the middle of the segment.*

105 **Standard:**

106 13 **The Speed Limit (R2-1) sign (see Figure 2B-3) shall display the limit established by law,**
107 **ordinance, regulation, or as adopted by the authorized agency based on an engineering study. The**
108 **speed limits displayed shall be in multiples of 5 mph.**

109 14 **Speed Limit (R2-1) signs, indicating speed limits for which posting is required by law, shall be**
110 **located at the points of change from one speed limit to another.**

111 15 **At the downstream end of the section to which a particular speed limit applies, a Speed Limit sign**
112 **showing the next speed limit shall be installed.**

113 16 **Speed Limit signs indicating the *statutory* speed limits *for the highway* shall be installed at**
114 **entrances to the State and, where appropriate, at jurisdictional boundaries in urban areas.**

115 Support:

116 16a The standard has been changed for clarity to show the intent of installing a speed limit sign for the
117 location only, and not installing a sign showing all statutory speed limits throughout the state.

118 *Guidance:*

119 17 *Additional Speed Limit signs should be installed beyond interchanges and major intersections and at*
120 *other locations where it is necessary to remind road users of the speed limit that is applicable.*

121 **Support:**

122 18 The “Traffic Control Devices Handbook” contains suggested criteria on the spacing of speed limit
123 signs.

124 **Option:**

125 19 If a jurisdiction has a policy of installing Speed Limit signs in accordance with statutory requirements
126 only on the streets that enter a city, neighborhood, or residential area to indicate the speed limit that is
127 applicable to the entire city, neighborhood, or residential area unless otherwise posted, a CITYWIDE (R2-
128 5aP), NEIGHBORHOOD (R2-5bP), or RESIDENTIAL (R2-5cP) plaque may be mounted above the Speed
129 Limit sign and an UNLESS OTHERWISE POSTED (R2-5P) plaque may be mounted below the Speed
130 Limit sign (see Figure 2B-3).

131 **Support:**

132 20 Section 2C.40 contains information about the use of speed zone signs to inform road users of a reduced
133 or variable speed zone to provide advance notice to comply with the posted speed limit ahead.

134 **Option:**

135 21 If a W3-5b sign is posted to provide notice of a variable speed zone, an END VARIABLE SPEED
136 LIMIT (R2-13) sign (see Figure 2B-3) may be installed at the downstream end of the zone to provide notice
137 to road users of the termination of the speed zone.

138 **Standard:**

139 22 **If a W3-5c sign is posted to provide notice of a truck speed zone, an END TRUCK SPEED LIMIT**
140 **(R2-14) sign (see Figure 2B-3) shall be installed at the downstream end of the zone to provide notice**
141 **to road users of the termination of the speed zone.**

142 *Guidance:*

143 23 *An advisory speed plaque (see Section 2C.59) mounted below a warning sign should be used to warn*
144 *road users of an advisory speed for a roadway condition. A Speed Limit sign should not be used for this*
145 *purpose.*

146 24 *Advance traffic control warning signs (see Section 2C.35), intersection warning signs (see Section*
147 *2C.41), and/or other traffic control devices are appropriate warning prior to a signalized intersection. A*
148 *Speed Limit sign should not be used for this purpose.*

149 **Option:**

150 25 Two types of Speed Limit signs may be used: one to designate passenger car speeds, including any
151 nighttime information or maximum or minimum speed limit that might apply; and the other to show any
152 special speed limits for trucks and other vehicles.

153 *Guidance:*

154 26 *No more than three speed limits should be displayed on any one Speed Limit sign or assembly.*

155 **Option:**

156 27 A variable speed limit sign that changes the speed limit for traffic and ambient conditions may be
157 installed provided that the appropriate speed limit is displayed at the proper times and locations in
158 accordance with Paragraphs 9 and 10 of this Section.

159 **Standard:**

160 28 **The variable speed limit sign legend “SPEED LIMIT” shall be a black legend on a white**
161 **retroreflective background. The variable speed limit legend shall be displayed in white LEDs on an**
162 **opaque black background.**

163 **Support:**

164 29 Section 2C.13 contains information about the use of a Vehicle Speed Feedback plaque mounted below a
165 Speed Limit sign that displays to approaching drivers the speed at which they are traveling.

166 30 Advisory speed signs and plaques are discussed in Sections 2C.12 and 2C.59. Temporary traffic control
167 zone speed signs are discussed in Part 6. The WORK ZONE (G20-5aP) plaque intended for installation
168 above a Speed Limit sign is discussed in Section 6G.08. School Speed Limit signs are discussed in Section
169 7B.05.



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 2B.27 – Intersection Lane Control Signs (R3-5 through R3-8)	Last Modified January 03, 2025	Proposal No. 11203
Supplement Team 2-Signs-R&W	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) The MUTCD 11th Edition implies that R3-5R (L) (Right/Left Arrow symbol ONLY) can only be used if it is mounted overhead. Many road authorities in Oregon use this sign at intersections with a single lane approach that has vehicle movement constrained to either a right or left turn. It is preferred to have mandatory movement reminders (signs) at the intersection, so road users know what movements are allowed. Overhead signs are not usually feasible with a stop controlled, single-lane approach. This proposes the option to use the ground mounted symbol sign under the stop sign.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 **Problem**

2 Oregon uses sign R3-5R(L) mounted under a stop sign at single lane approaches to one-way streets. The
3 new MUTCD implies limits this sign for overhead use only so that the sign can be over the lane it is for
4 (2B.28 02). Many times, overhead sign structures are not practical. The 2009 MUTCD only limited the
5 signs’ use when there were multiple lanes at the approach to a one-way street.

6 **Discussion**

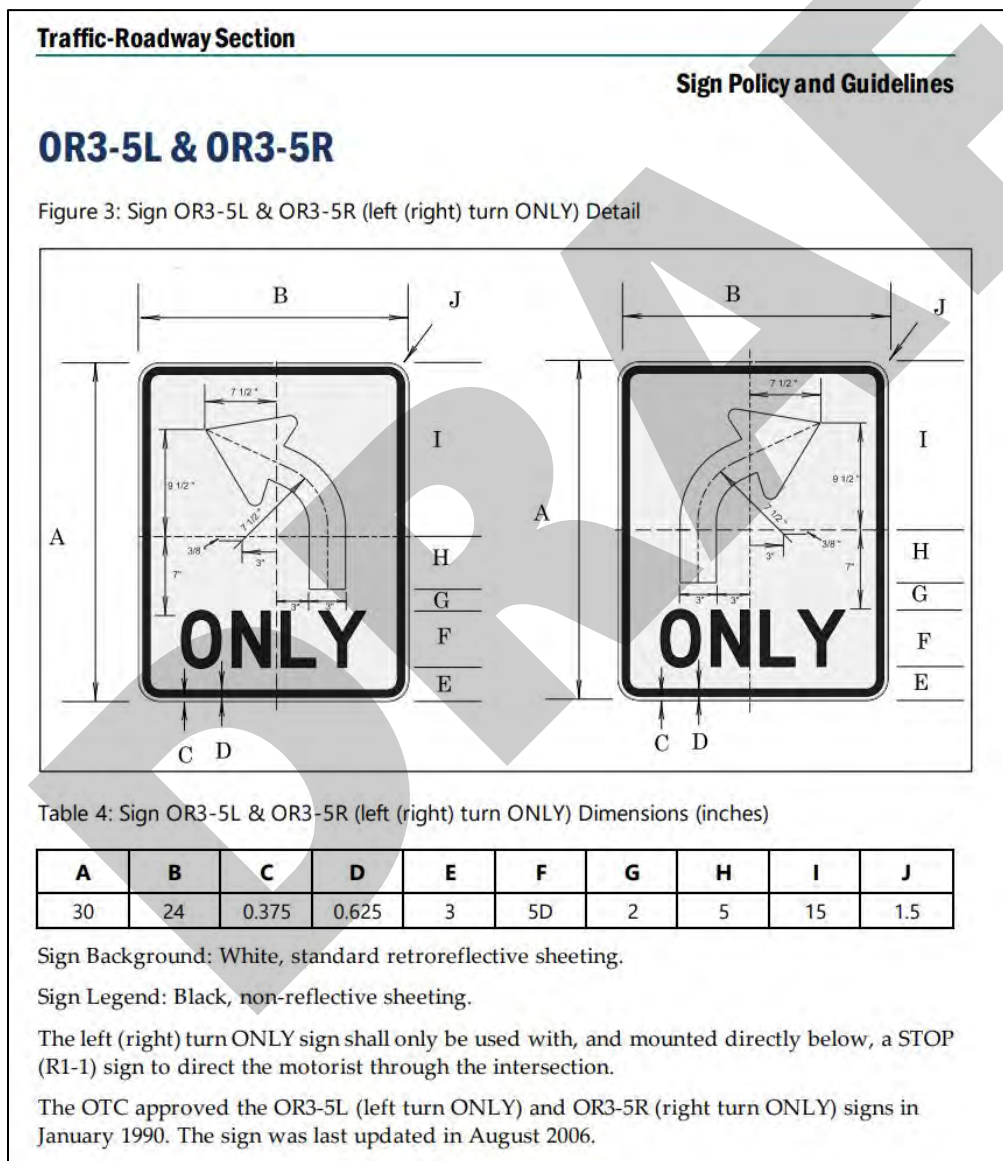
7 Many road authorities in Oregon use R3-5R(L) below stop signs at single approach lanes when they
8 want to limit the movements at the approach into the intersection.

9 Most of the time the limited movement at a single lane approach is for a safety reason. For example,
 10 heavy traffic so access should only be a right in, right out or it is onto a one-way street. It is important
 11 that drivers are reminded of the restricted movements at the intersection as many drivers do not pay
 12 attention to restricted movement signs before the intersection. Sign OR3-5 conveys this message best as
 13 it is a simple symbol sign.

14 This proposes to use this sign below stop signs when there is only one lane approaching an
 15 intersection, and that lane must turn. This way there is no confusion as to whom the sign applies to.

16 Oregon has designed a smaller R3-5R(L) (OR3-5R(L)) for use under stop signs when certain conditions
 17 apply. This sign has been part of ODOT sign policy since at least 1990.

18 **Figure 1: ODOT Sign Policy & Guidelines sign OR3-5L & OR3-5R**



19

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 2B. REGULATORY SIGNS, BARRICADES, AND GATES

Section 2B.27 Intersection Lane Control Signs (R3-5 through R3-8)

Standard:

Intersection Lane Control signs (see Figure 2B-4), if used, shall require road users in certain lanes to turn, shall permit turns from a lane where such turns would otherwise not be permitted, shall require a road user to stay in the same lane and proceed straight through an intersection, or shall indicate permitted movements from a lane.

Support:

Intersection Lane Control signs have three applications:

- A. Mandatory Movement Lane Control (R3-5 series and R3-7 series) signs,
- B. Optional Movement Lane Control (R3-6 series) signs, and
- C. Advance Intersection Lane Control (R3-8 series) signs.

Guidance:

When Intersection Lane Control signs are mounted overhead, each sign used should be placed over the lane or a projection of the lane to which it applies.

On signalized approaches where through lanes that become mandatory turn lanes, multiple-lane turns that include shared lanes for through and turning movements, or other lane-use regulations are present that would be unexpected by unfamiliar road users, overhead Intersection Lane Control signs should be installed at the signalized location over the appropriate lanes or projections thereof and in advance of the intersection over the appropriate lanes.

Where overhead mounting on the approach is impracticable for the Advance and/or Intersection lane Control signs, one of the following alternatives should be employed:

- A. *At locations where through lanes become mandatory turn lanes, a Mandatory Movement Lane Control (R3-7) sign should be post-mounted on the left-hand side of the roadway where a through lane is becoming a mandatory left-turn lane on a one-way street or where a median of sufficient width for the signs is available, or on the right-hand side of the roadway where a through lane is becoming a mandatory right-turn lane.*
- B. *At locations where a through lane is becoming a mandatory left-turn lane on a two-way street where a median of sufficient width for the signs is not available, and at locations where multiple-lane turns that include shared lanes for through and turning movements are present, an Advance Intersection Lane Control (R3-8 series) sign should be post-mounted in a prominent location in advance of the intersection, and consideration should be given to the use of an oversized version in accordance with Table 2B-1.*

56 Option:

57 05A Where overhead mounting on the approach is impracticable for the Advance and/or Intersection lane
58 Control signs, and there is only a single lane approach to the intersection and it becomes a mandatory turn
59 lane, a Mandatory Lane Control (OR3-5 or R3-5) sign may be post mounted below a stop sign.

60 Support:

61 05B It is important that road users understand and follow restricted movements. Road users need to know
62 what the restricted movements are at the intersection where they have time to understand their own
63 movements and those of the other road users. Overhead installation is not always feasible because of cost,
64 limited right of way, and sight obstructions.

65 Guidance:

66 06 *Use of an overhead sign for one approach lane should not require installation of overhead signs for the*
67 *other lanes of that approach.*

68 Option:

69 07 Intersection Lane Control signs may be omitted where:

- 70 A. A turn bay has been provided by physical construction or pavement markings, and
71 B. Only the road users using such turn bays are permitted to make a turn in that direction.

72 08 At roundabouts, Intersection Lane Control (R3-5, R3-6, and R3-8 series) signs may display any of the
73 arrow symbol options shown in Figure 2B-5.



**OREGON TRAFFIC CONTROL DEVICES COMMITTEE
OREGON SUPPLEMENT TO THE MUTCD 11th EDITION
SUPPLEMENT PROPOSAL**

MUTCD 11th Ed. Section(s) Affected 2B.60 – No Turn on Red Signs	Last Revised January 03, 2025	Proposal No. 11204
Supplement Team 2-Signs-R&W	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) Right turns on red indications are allowed in Oregon. Both the 2009 and 11th Editions of the MUTCD say that when there is a red arrow, a sign should go with it to say that a right turn is permitted after stopping. This proposes to change that guideline to an option because the sign is not needed to allow right turns on red.		
This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.		
The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:		
<ul style="list-style-type: none"> • Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern. • Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study. • Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.” • Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon. 		

1 [Editor’s note: Proposal No. 11401 is a parallel proposal related to turns on red arrows.]

2 **Problem**

3 Where turns on red arrow are allowed, Section 2B.60 recommends using a sign informing road users of
4 the allowance. ORS 811.360 allows turns on red arrow as a default in Oregon; this would lead to
5 excessive use of the sign.

6 **Discussion**

7 ORS 811.360 allows drivers to make a turn on a red arrow indication. Currently, Oregon road
8 authorities sign if the right turn on a red arrow is prohibited.

9 It would take years for Oregon’s road authorities to change existing signs to show when turns on red
10 arrow are allowed. This would cause confusion during the interim as there would be no consistency. It
11 would also require signing every right turn red arrow to show if turning on red is allowed or
12 prohibited.

13 If a road user does not know Oregon law, they would stop at the red indication and not turn, which is a
14 safe state. Excessive signing at a signalized intersection increases cognitive load and can cause
15 confusion.

16 This proposes to continue what was in the 2009 Oregon Supplement to the MUTCD to minimize extra
17 signing for red arrow indications.

811.360 Vehicle turns permitted at stop light; proceeding against traffic control device; improperly proceeding at stop light; penalty.

- (1) The driver of a vehicle, subject to this section, who is intending to turn at an intersection where there is a traffic control device showing a steady circular red signal, a steady red bicycle signal or a steady red arrow signal may do any of the following without violating ORS 811.260 and 811.265:
 - (a) Make a right turn into a two-way street.
 - (b) Make a right or left turn into a one-way street in the direction of traffic upon the one-way street.
- (2) In addition to the provisions of subsection (1) of this section, a bicyclist or motorcyclist does not violate ORS 811.260 and 811.265 if:
 - (a) The bicyclist or motorcyclist approaches an intersection where there is a traffic control device showing a steady circular red signal, a steady red bicycle signal or a steady red arrow signal;
 - (b) The traffic control device is controlled by a vehicle detection device;
 - (c) The bicyclist or motorcyclist comes to a complete stop and waits for the traffic control device to complete one full cycle; and
 - (d) After the vehicle detection device fails to detect the presence of the bicycle or motorcycle and change the traffic control device to a green signal, the bicyclist or motorcyclist proceeds with caution through the intersection.
- (3) A person commits the offense of improperly proceeding at a stop light if the person does any of the following while proceeding as described in this section:
 - (a) Fails to stop at the light as required.
 - (b) Fails to exercise caution to avoid an accident.
 - (c) Disobeys the directions of another traffic control device, other than the device described in subsections (1) and (2) of this section, or a police officer that prohibits the driver, motorcyclist or bicyclist from proceeding.
 - (d) Fails to yield the right of way to traffic lawfully within the intersection or approaching so close to the intersection as to constitute an immediate hazard.
- (4) A driver, motorcyclist or bicyclist who is proceeding as described in this section is also subject to the requirements under ORS 811.028 to stop for a pedestrian before proceeding.
- (5) The offense described in this section, improperly proceeding at a stop light, is a Class B traffic violation.

[1983 c.338 §628; 1997 c.507 §7; 2003 c.278 §7; 2005 c.746 §3; 2011 c.168 §2; 2015 c.147 §1]

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 2B. REGULATORY SIGNS, BARRICADES, AND GATES

Section 2B.60 No Turn on Red Signs (R10-11 Series, R10-17a, and R10-30)

Standard:

Where a right turn on a circular red signal indication (or a left turn on a circular red signal indication from a one-way street to a one-way street) is to be prohibited, a NO TURN ON RED (R10-11, R10-11b) word message sign (see Figure 2B-28) shall be used. A NO TURN ON RED (symbolic circular red) (R10-11a) sign (see Figure 2B-28) shall be used when the approach is controlled by both circular red and red arrow indications.

Guidance:

If used, the No Turn on Red sign should be installed near the appropriate signal head.

A No Turn on Red sign should be considered when an engineering study finds that one or more of the following conditions exists:

- A. Inadequate sight distance to vehicles approaching from the left (or right, if applicable);*
- B. Geometrics or operational characteristics of the intersection that might result in unexpected conflicts;*
- C. An exclusive pedestrian or bicycle phase;*
- D. An unacceptable number of conflicting pedestrian movements with right-turn-on-red maneuvers, especially involving children, older pedestrians, or persons with disabilities;*
- E. More than three right-turn-on-red crashes reported in a 12-month period for the particular approach; or*
- F. The skew angle of the intersecting roadways creates difficulty for drivers to see traffic approaching from their left (or right, if applicable).*

Standard:

If an R10-11, R10-11a, R10-11b, or R10-17a sign with conventional road size as shown in Table 2B-1 is used on an approach on the far side of the intersection and the distance between the stop line and the sign is greater than 120 feet, then a duplicate sign shall be located on the near side of the intersection to supplement the sign on the far side of the intersection.

Option:

When a no-turn-on-red restriction applies during certain time periods only, the following alternatives may be used:

- A. Movement Prohibition (R3-1, R3-2, R3-4, R3-18, and R3-27) signs or NO TURN ON RED signs displayed by using a blank-out sign for the time period or one or more portion(s) of a particular cycle of the traffic control signal during which the prohibition is applicable; or

54 B. Static signs incorporating a supplemental legend or with a supplemental R10-20aP plaque (see
55 Figure 2B-28) showing the hours and days during which the prohibition is applicable.

56 06 White LEDs may be used in the border and activated during periods of turn prohibition to enhance the
57 sign conspicuity.

58 07 On signalized approaches with more than one right-turn lane, a NO TURN ON RED EXCEPT FROM
59 RIGHT LANE (R10-11c) sign (see Figure 2B-28) may be post-mounted at the intersection or a NO TURN
60 ON RED FROM THIS LANE (with down arrow) (R10-11d) sign (see Figure 2B-28) may be mounted over
61 the approximate center of the lane from which turns on red are prohibited.

62 *Guidance:*

63 08 *Where turns on red are permitted and the signal indication is a steady RED ARROW, the RIGHT*
64 *(LEFT) ON RED ARROW AFTER STOP (R10-17a) sign (see Figure 2B-28) should be installed adjacent to*
65 *the RED ARROW signal indication [where operations suggest it would be helpful](#).*

66 Support:

67 08A [ORS 811.360 allows vehicular traffic facing a Steady Red Arrow signal indication to make certain](#)
68 [turns after stopping, making a RIGHT \(LEFT\) ON RED ARROW AFTER STOP \(R10-17a\) sign](#)
69 [unnecessary. If the driver is unfamiliar with Oregon laws and does not proceed with turning right on the red](#)
70 [arrow, they remain stopped so are not a risk to others.](#)

71 08B [The MUTCD Section 2A.20 cautions against the excessive use of signs. By reducing the use of the](#)
72 [RIGHT \(LEFT\) ON RED ARROW AFTER STOP \(R10-17a\) to where it would be helpful makes the sign](#)
73 [and all regulatory signs more effective.](#)

74 *Option:*

75 09 A RIGHT TURN ON RED MUST YIELD TO U-TURN (R10-30) sign (see Figure 2B-28) may be
76 installed to remind road users that they must yield to conflicting U-turn traffic on the street or highway onto
77 which they are turning right on a red signal after stopping.



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 2B.69 – Photo Enforced Signs and Plaques (Reg.), 2C.69 – Photo Enforced Plaques (Warning)	Last Revised January 03, 2025	Proposal No. 11205
Supplement Team 2-Signs-R&W	Status OTCDC Review – Round 2	Type Modification
Summary (2-3 sentences) Oregon law prescribes specific signs when using photo enforcement. This proposes to add a support paragraph in sections related to traffic safety cameras pointing practitioners to applicable statutes and sections in the MUTCD.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Oregon’s statutes on traffic safety cameras require certain signs for certain applications. Practitioners
3 should know that Oregon statute requires certain signs, including those the MUTCD lists as optional.

4 Discussion

5 The MUTCD 11th Edition does not conflict with Oregon’s statutes on traffic safety cameras. However,
6 Oregon’s statutes require certain signs when using traffic safety cameras while the MUTCD lists those
7 signs as optional.

8 This proposes to add a support paragraph in sections related to safety cameras pointing practitioners to
9 applicable statutes and sections in the MUTCD. For example, ORS 810.438 and ORS 810.444 requires a
10 Traffic Laws Photo Enforced sign and Vehicle Speed Feedback Sign when enforcing speed with photo
11 radar, so this proposes to refer to those statutes and Section 2C.13 for Vehicle Speed Feedback Signs.

12 The applicable statutes below are from the 2023 Edition Oregon Revised Statutes, copied 05/01/2024
13 from https://www.oregonlegislature.gov/bills_laws/Pages/ORS.aspx and modified by [HB-4109 \(2024](#)
14 [Regular Session\)](#).

810.436 Citations based on photo red light; response to citation.

- (1) Notwithstanding any other provision of law, if a city chooses to operate a camera that complies with this section and ORS 810.434, a citation for violation of ORS 811.265 may be issued on the basis of photographs from a camera taken without the presence of a police officer if the following conditions are met:
- (a) Signs are posted, so far as is practicable, on all major routes entering the jurisdiction indicating that compliance with traffic control devices is enforced through cameras.
 - (b) For each traffic control device at which a camera is installed, signs indicating that a camera may be in operation at the device are posted before the device at a location near the device.
 - (c) If the traffic control device is a traffic light, the yellow light shows for at least the length of time recommended by the standard set by the Institute of Transportation Engineers.
 - (d) The citation is mailed to the registered owner of the vehicle, or to the driver if identifiable, within 10 business days of the alleged violation.
 - (e) The registered owner is given 30 days from the date the citation is mailed to respond to the citation.
 - (f) A police officer or a duly authorized traffic enforcement agent who has reviewed the photograph signs the citation. The citation may be prepared on a digital medium, and the signature may be electronic in accordance with the provisions of ORS 84.001 to 84.061.

[The rest of this statute does not relate to signs.]

[1999 c.851 §2; 2001 c.104 §305; 2001 c.474 §2; 2001 c.535 §30a; 2003 c.14 §493; 2003 c.339 §3; 2005 c.686 §2; 2007 c.640 §2; 2017 c.288 §5; 2022 c.64 §1]

15

810.437 Citations for speeding based on photo red light; response to citation.

- (1) Notwithstanding any other provision of law, if a city chooses to operate cameras that comply with this section and ORS 810.434, a citation for speeding may be issued on the basis of photographs from a camera and other technology, including but not limited to sensors, that measure the speed of a vehicle without the presence of a police officer if the following conditions are met:
- (a) Signs are posted, so far as is practicable, on all major routes entering the jurisdiction indicating that compliance with traffic laws is enforced through cameras and other technology.
 - (b) For each traffic control device at which a camera is installed, signs indicating that a camera system may be in operation at the traffic control device are posted before the device at a location near the device.
 - (c) The citation is mailed to the registered owner of the vehicle, or to the driver if identifiable, within 10 business days of the alleged violation.
 - (d) The registered owner is given 30 days from the date the citation is delivered to respond to the citation.
 - (e) A police officer or a duly authorized traffic enforcement agent who has reviewed the photograph and other data signs the citation. The citation may be prepared on a digital medium, and the signature may be electronic in accordance with the provisions of ORS 84.001 to 84.061.
 - (f) The person exceeded the speed limit or designated speed by 11 miles per hour or greater.

[The rest of this statute does not relate to signs.]

[2017 c.288 §2; 2022 c.64 §2]

810.438 Photo radar.

- (1) A city at its own cost may operate photo radar.
- (2) A photo radar system operated under this section:
 - (a) May be used on streets in residential areas or school zones.
 - (b) May be used in other areas if the governing body of the city makes a finding that speeding has had a negative impact on traffic safety in those areas.
 - (c) May not be used on controlled access highways.
 - (d) May not be used unless a sign is posted announcing "Traffic Laws Photo Enforced." The sign posted under this paragraph must:
 - (A) Be on the street on which the photo radar unit is being used;
 - (B) Be between 100 and 400 yards before the location of the photo radar unit;
 - (C) Be at least two feet above ground level; and
 - (D) If posted in a school zone not otherwise marked by a flashing light used as a traffic control device, indicate that school is in session.

[The rest of this statute does not relate to signs.]

[1995 c.579 §1; 1997 c.280 §1; 1999 c.1071 §1; 2005 c.686 §3; 2007 c.634 §1; 2010 c.30 §9; 2011 c.545 §66; 2015 c.138 §25; 2023 c.33 §1]

16

810.441 Photo radar; highway work zones.

- (1) The Department of Transportation may operate photo radar within a highway work zone that is located on a state highway. The photo radar unit may be operated only:
 - (a) In the area within a highway work zone when highway workers, as defined in ORS 811.230, are present. The photo radar unit may not be operated in a location more than 100 yards from where highway workers are present and, in the case of a divided state highway, the photo radar unit must be located on the same roadway where highway workers are present.
 - (b) When the configuration of the roadway is temporarily changed, including but not limited to temporary changes made to the number of usable lanes, lane width, shoulder width or curvature of the roadway. The photo radar unit may not be operated in a location more than 100 yards from where the configuration of the roadway is temporarily changed and, in the case of a divided state highway, the photo radar unit must be located on the same roadway where the highway configuration is temporarily changed.
- (2) The department, at its own cost, may ask a jurisdiction authorized to operate photo radar under ORS 810.438 (1) or the Oregon State Police to operate a photo radar unit in a highway work zone on a state highway.
- (3) A photo radar unit operated under this section may not be used unless a sign is posted announcing that photo radar is in use. The sign posted under this subsection must be all of the following:
 - (a) Located on the state highway on which the photo radar unit is being used.
 - (b) Between 100 and 400 yards before the location of the photo radar unit.

[The rest of this statute does not relate to signs.]

[2007 c.634 §4; 2013 c.373 §1]

810.444 Citations based on photo radar; response to citation.

- (1) Notwithstanding any other provision of law, in a city operating a photo radar system under ORS 810.438:
- (a) A citation for speeding may be issued on the basis of photo radar if:
 - (A) A sign that provides drivers with information about the driver's current rate of speed is posted between 100 and 400 yards before the location of each photo radar unit;
 - (B) A police officer or a duly authorized traffic enforcement agent has reviewed the photographic evidence of the conduct; and
 - (C) A police officer signs and issues the citation, except that a citation issued by the City of Portland may be signed and issued by a duly authorized traffic enforcement agent or a police officer.
 - (b) A rebuttable presumption exists that the registered owner of the vehicle was the driver of the vehicle when the citation is issued and delivered as provided in subsection (2) of this section.
 - (c) An individual issued a citation under this subsection may respond to the citation by submitting a certificate of innocence under subsection (3)(a) of this section or may make any other response allowed by law.
 - (d) A business or public agency issued a citation under this subsection may respond to the citation by submitting an affidavit of nonliability under subsection (3)(b) of this section or may make any other response allowed by law.

[The rest of this statute does not relate to signs.]

[2015 c.721 §2; 2022 c.64 §3; Updated with HB-4109(2024)]

17 Proposed Supplement Content

18 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
19 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

20 CHAPTER 2B. REGULATORY SIGNS, BARRICADES, AND GATES

21 Section 2B.69 Photo Enforced Signs and Plaques (R10-18, R10-18a, R10-19P, R10-19aP)

22 Option:

23 01 A Traffic Laws Photo Enforced (R10-18) sign (see Figure 2B-32) may be installed at a jurisdictional
24 boundary to advise road users that some of the traffic regulations within that jurisdiction are being enforced
25 by photographic equipment.

26 02 A Traffic Signal Photo Enforced (R10-18a) sign (see Figure 2B-32) may be installed in advance of or at
27 a traffic signal to advise road users that compliance with the signal is enforced by photographic equipment.
28 A Signal Ahead (W3-3) sign and a Traffic Signal Photo Enforced (R10-18a) sign may be used on the same
29 approach provided that they are on separate supports.

30 03 A Photo Enforced (R10-19P) plaque or a PHOTO ENFORCED (R10-19aP) word message plaque (see
31 Figure 2B-32) may be mounted below a regulatory sign to advise road users that the regulation is being
32 enforced by photographic equipment.

33 **Standard:**

34 04 **The Traffic Signal Photo Enforced (R10-18a) sign shall not be installed on approaches to**
35 **signalized locations where red-light cameras are not present on any of the approaches to the**
36 **signalized location.**

37 05 **A Traffic Signal Photo Enforced (R10-18a) sign shall not be installed on the same support in**
38 **combination with a Signal Ahead (W3-3) sign.**

39 06 **If used below a regulatory sign, the Photo Enforced (R10-19P or R10-19aP) plaque shall be a**
40 **rectangle with a black legend and border on a white background.**

41 Support:

42 06a Oregon law (ORS 810.434 through ORS 810.444) allows traffic safety cameras in certain jurisdictions.
43 When used, the law requires certain signs that advise road users that photographic equipment is enforcing
44 traffic regulations. For speed enforcement, the law also requires signs that provide drivers with information
45 about their current rate of speed (see Section 2C.13 for Vehicle Speed Feedback Signs and Plaques).

46 **CHAPTER 2C. WARNING SIGNS AND OBJECT MARKERS**

47 **Section 2C.69 Photo Enforced Plaques (W16-10P and W16-10aP)**

48 **Option:**

49 01 A Photo Enforced (W16-10P) plaque or a PHOTO ENFORCED (W16-10aP) word message plaque (see
50 Figure 2C-16) may be mounted below a warning sign to advise road users that the regulations associated
51 with the condition being warned about (such as a traffic control signal or a toll plaza) are being enforced by
52 photographic equipment.

53 Support:

54 02a Oregon law (ORS 810.434 through ORS 810.444) allows traffic safety cameras in certain jurisdictions.
55 When used, the law requires certain signs that advise road users that photographic equipment is enforcing
56 traffic regulations. For speed enforcement, the law also requires signs that provide drivers with information
57 about their current rate of speed (see Section 2C.13 for Vehicle Speed Feedback Signs and Plaques).



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 3A.04 – Functions, Widths, and Patterns of Longitudinal Pavement Markings	Last Revised January 03, 2025	Proposal No. 11301
Supplement Team 3-Markings	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) The guidance for discernable space of double lines has changed in the 11th edition. ODOT's and other agencies' current standard of practice would be affected. This proposes to allow discernable spaces between double lines up to 3 times the line width to keep Oregon's current striping layouts.		
This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.		
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1 **Problem**

2 New guidance in the 11th Edition of the MUTCD limits the width of the discernable space between
3 double lines to twice that of the markings itself. ODOT and other agencies currently use 12 inches as
4 the discernable gap of a double line marking, which is beyond the limit of the new guidance when
5 using a 4-inch line.

6 **Discussion**

7 Following MUTCD 11th Edition guidance to keep the discernable space between double lines no more
8 than twice the line width would significantly affect ODOT and many other agencies in Oregon. ODOT
9 and other agencies have used a discernable space of three times the line width (12 inches) between
10 double lines since at least 1976. This 3x gap:

- 11 1. Keeps the location of centerlines constant as the line pattern transitions between broken, no-pass
12 right, no-pass left, and double by using a 3-gun equipment setup.
- 13 2. Provides slightly more separation between opposing traffic.

14 To change all 3x gaps to 2x (8-inch) gaps, agencies will have to change the entire way they do their
15 striping, would be a significant financial impact, and could leave ghost striping if done without paving.
16 This would also affect how striping crews maintain lines – striping crews would need to change their
17 truck layouts in the field as they go from a segment with 3x gaps to 2x gaps, and vice-versa.

18 A 3x gap is discernable given Oregon’s highways have used a 3x gap for at least 48 years with no
19 known confusion from road users.

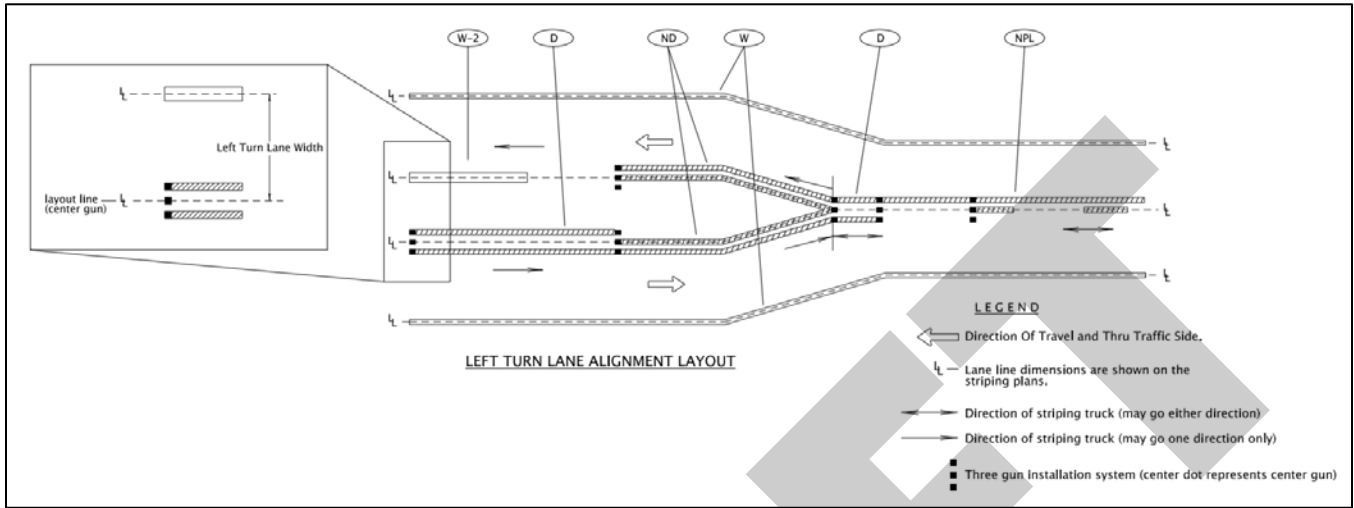
20 Another benefit to the 3x maximum gap is the ability to transition 4-inch lines to 6-inch lines (see Figure
21 5). A 2x maximum gap is not as smoothly transitioned to a 6-inch line with a 3-gun system (see Figure
22 6). As the MUTCD encourages wider lines for safety and machine vision (e.g. 3A.04 Paragraph 05), it is
23 important to set up smooth transitions between 4-inch and 6-inch line patterns because road authorities
24 will be managing existing 4-inch lines and new 6-inch lines on the road network. A 3x gap can do that
25 well (Figure 5), whereas the 8-inch gap cannot (Figure 6).

26 **Figure 1: Yellow Line 3-Gun Arrangement on Striping Truck**



27

28 **Figure 2: Striping Layout Based on 3-Gun Arrangement (ODOT Standard Drawing TM561)**



29

30 **Figure 3: 8-inch vs. 12-inch gap comparison**



31

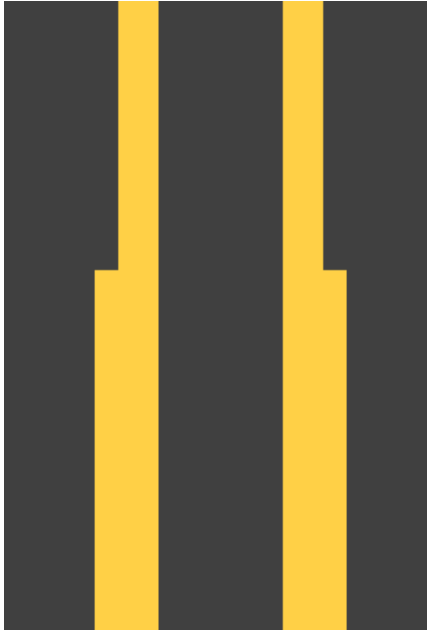
32

33 **Figure 4: Transition from one-sided no-passing to double yellow (2x line width gap)**



34

35 **Figure 5: Transition from 4-inch lines (3x line width gap) to 6-inch lines (2x line width gap)**



36
37 **Figure 6: Transition from 4-inch lines (2x line width gap) to 6-inch lines (2x line width gap)**



38

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 3A. GENERAL

Section 3A.04 Functions, Widths, and Patterns of Longitudinal Pavement Markings

Standard:

01 The general functions of longitudinal lines shall be as follows:

- 02 A. A double line indicates maximum or special restrictions.
- 03 B. A solid line discourages or prohibits crossing (depending on the specific application).
- 04 C. A broken line indicates a permissive condition.
- 05 D. A dotted lane line provides warning of a downstream change in lane function.
- 06 E. A dotted line used as a lane line or edge line extension guides vehicles through an intersection, a taper area, or an interchange ramp area.

07 The widths and patterns of longitudinal lines shall be as follows:

- 08 A. Normal line—4 to 6 inches wide.
- 09 B. Wide line—at least twice the width of a normal line.
- 10 C. Double line—two parallel lines separated by a discernible space. The pavement surface shall be visible between the lines in the same way that it is visible outside the lines, except where contrast markings are used in combination with the double line (see Section 3A.03).
- 11 D. Broken line—normal width line segments separated by gaps.
- 12 E. Dotted line—noticeably shorter line segments separated by shorter gaps than used for a broken line. The width of a dotted line extension shall be at least the same as the width of the line it extends.

Guidance:

03 To be recognized as a double line rather than two separate, disassociated single lines, the discernible space separating the parallel lines of a double line should not exceed ~~two~~ three times the line width of a single line.

Support:

04 The width of the line indicates the degree of emphasis.

05 Increasing edge line width from 4 inches to 6 inches has been shown to be a beneficial countermeasure to enhance safety at locations with a history of run-off-the-road crashes (see Section 3B.09). Wider normal lines with a 6-inch width instead of the minimum 4-inch width can be beneficial to both human drivers and driving automation systems (see Section 5B.02).

Guidance:

06 Broken lines should consist of 10-foot line segments and 30-foot gaps, or dimensions in a similar ratio of line segments to gaps as appropriate for traffic speeds and the need for delineation.

75 07 *A dotted line used as a lane line (see Section 3B.07) should consist of 3-foot line segments and 9-foot*
76 *gaps. A dotted line for line extensions within an intersection, taper area, or interchange ramp area (see*
77 *Section 3B.11) should consist of 2-foot line segments and 2-foot to 6-foot gaps.*

78 Support:

79 08 Section 5B.02 contains information on pavement marking considerations for driving automation
80 systems.

DRAFT



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 3B.19 – Stop and Yield Lines, & 3I.02 – Tubular Markers	Last Revised January 03, 2025	Proposal No. 11302
Supplement Team 3-Markings	Status OTCDC Review – Round 2	Type Carryover
Summary (2-3 sentences) Oregon law (ORS 811.028) requires that drivers stop for pedestrians crossing a roadway within a marked or unmarked crosswalk. The 11th Edition allows for a variety of “yield to pedestrian” conditions that are not applicable in Oregon. This proposes to remove “yield to pedestrian” options and add guidance on locating yield markings at channelized right-turn lanes with marked crosswalks.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 **Problem**

2 ORS 811.028 requires drivers to stop for pedestrians crossing a roadway within a marked or unmarked
3 crosswalk. The 11th Edition (and past editions) allow for a variety of “yield to pedestrian” conditions
4 that are not applicable in Oregon.

5 The MUTCD also recommends a stop line at signalized intersections, even if there’s a marked
6 crosswalk on an approach. Oregon’s long-standing practice is to require a stop line or a marked
7 crosswalk as the stop line to reduce maintenance costs.

8 **Discussion**

9 Under ORS 811.028, drivers must stop – not yield – to pedestrians so all standards, guidance, options,
10 and support related to yielding to pedestrians, instead of stopping for pedestrians, are proposed to for
11 removal.

12 This also proposes adding guidance to reduce confusion where a channelized right-turn lane has yield
13 markings and a marked crosswalk. This guidance proposes to place the yield lines beyond the
14 crosswalk to avoid drivers thinking the yield line applies to the crosswalk.

15 In the past, Oregon has also required either a stop line or a marked crosswalk at signal-controlled
16 locations. This proposes changes that remain consistent with Oregon's past supplements related to
17 marking stop locations at traffic signals.

18 Besides being Oregon law, this change may also provide a safety benefit by being more restrictive –
19 requiring drivers to stop rather than just slowing for pedestrians.

811.028 Failure to stop and remain stopped for pedestrian; penalty.

- (1) The driver of a vehicle commits the offense of failure to **stop and remain stopped** for a pedestrian if the driver does not stop and remain stopped for a pedestrian when the pedestrian is:
 - (a) Proceeding in accordance with a traffic control device as provided under ORS 814.010 or crossing the roadway in a crosswalk; and
 - (b) In any of the following locations:
 - (A) In the lane in which the driver's vehicle is traveling;
 - (B) In a lane adjacent to the lane in which the driver's vehicle is traveling;
 - (C) In the lane into which the driver's vehicle is turning;
 - (D) In a lane adjacent to the lane into which the driver's vehicle is turning, if the driver is making a turn at an intersection that does not have a traffic control device under which a pedestrian may proceed as provided under ORS 814.010; or
 - (E) Less than six feet from the lane into which the driver's vehicle is turning, if the driver is making a turn at an intersection that has a traffic control device under which a pedestrian may proceed as provided under ORS 814.010.
- (2) For the purpose of this section, a bicycle lane or the part of a roadway where a vehicle stops, stands or parks that is adjacent to a lane of travel is considered to be part of that adjacent lane of travel.
- (3) This section does not require a driver to stop and remain stopped for a pedestrian under any of the following circumstances:
 - (a) Upon a roadway with a safety island, if the driver is proceeding along the half of the roadway on the far side of the safety island from the pedestrian; or
 - (b) Where a pedestrian tunnel or overhead crossing has been provided at or near a crosswalk.
- (4) For the purposes of this section, a pedestrian is crossing the roadway in a crosswalk when any part or extension of the pedestrian, including but not limited to any part of the pedestrian's body, wheelchair, cane, crutch or bicycle, moves onto the roadway in a crosswalk with the intent to proceed.
- (5) The offense described in this section, failure to stop and remain stopped for a pedestrian, is a Class B traffic violation.

[2005 c.746 §2; 2011 c.507 §1]

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 3B. PAVEMENT AND CURB MARKINGS

Section 3B.19 Stop and Yield Lines

Option:

01 Stop lines may be used to indicate the point behind which vehicles are required to stop in compliance
27 with a STOP (R1-1) sign, a Stop Here for Pedestrians (R1-5b) sign, a Stop Here for School Crossing (R1-
28 5c) sign, a Stop Here for Trail Crossing (R-5e) sign, or some other traffic control device that requires
29 vehicles to stop, except YIELD signs that are not associated with passive grade crossings.

Standard:

02 **Stop lines shall consist of solid white lines extending across approach lanes to indicate the point at
32 which the stop is intended or required to be made.**

03 **Except as provided in Section 8C.03, stop lines shall not be used at locations where drivers are
34 required to yield in compliance with a YIELD (R1-2) sign, ~~a Yield Here to Pedestrians (R1-5) sign, a
35 Yield Here to School Crossings (R1-5a) sign, a Yield Here to Trail Crossings (R1-5d) sign, or at
36 locations on uncontrolled approaches where drivers or bicyclists are required by State law to yield to
37 pedestrians.~~**

Guidance:

04 **Stop lines or a marked crosswalk shall ~~should~~ be used to indicate the point behind which vehicles
40 are required to stop in compliance with a traffic control signal (see Section 4D.08).**

Option:

04a At a controlled intersection with a marked crosswalk, a separate stop line may be installed if
43 engineering judgment determines a need, such as accommodating truck turning radii, or at highly skewed
44 approaches.

Support:

04b Lack of stop lines or crosswalks used at traffic control signals negatively affects the safety, operation,
47 and efficiency of the intersection. However, separate stop lines used in conjunction with a marked
48 crosswalk at a controlled intersection are unnecessary, as the location of the near-side transverse crosswalk
49 line adequately performs the same function as a stop line without vehicular encroachment into the
50 crosswalk (when a typical 10 foot wide crosswalk is used) and without being confusing to the motorist.

Guidance:

05 *Stop lines should be 12 to 24 inches wide.*

53 Option:

54 06 Stop lines may be omitted at ramp control signals.

55 Support:

56 07 Section 4J.02 contains information regarding the use and application of stop lines in conjunction with a
57 pedestrian hybrid beacon.

58 **Standard:**

59 08 **If used, a yield line pavement marking shall not be installed without a Yield (R1-2) sign, ~~a Yield~~
60 ~~Here to Pedestrians (R1-5) sign, a Yield Here to School Crossings (R1-5a) sign, a Yield Here to Trail~~
61 ~~Crossings (R1-5d) sign, or some other traffic control device that requires vehicles to yield (see Figure~~
62 ~~3B-16).~~**

63 09 **Yield lines shall not be used at locations where drivers are required to stop in compliance with a**
64 **STOP (R1-1) sign, a Stop Here for Pedestrians (R1-5b) sign, a Stop Here for School Crossing (R1-5c)**
65 **sign, a Stop Here for Trail Crossing (R1-5e) sign, a traffic control signal, or some other traffic control**
66 **device.**

67 10 **Yield lines shall consist of a row of solid white isosceles triangles pointing toward approaching**
68 **vehicles extending across approach lanes to indicate the point at which the yield is intended or**
69 **required to be made.**

70 Option:

71 11 If a yield line marking is used on a bicycle facility [that is not at a crosswalk](#), a Bicycles Yield to
72 Pedestrians (R9-6) sign (see Section 9B-12) may be used.

73 *Guidance:*

74 12 *The individual triangles comprising the yield line should have a base of 12 to 24 inches wide and a*
75 *height equal to 1.5 times the base. The space between the triangles should be 3 to 12 inches.*

76 13 *If used, stop ~~and yield~~ lines should be placed a minimum of 4 feet in advance of the nearest crosswalk*
77 *line at controlled intersections, ~~except for yield lines at roundabouts as provided for in Section 3D.04 and~~*
78 *~~at midblock crosswalks.~~ In the absence of a marked crosswalk, the stop line or yield line should be placed*
79 *at the desired stopping or yielding point, but should not be placed more than 30 feet or less than 4 feet from*
80 *the nearest edge of the intersecting traveled way.*

81 13a *If a yield line is used at channelized-right turn lane with a marked crosswalk, the yield line should be*
82 *placed beyond the marked crosswalk (see Drawing A in Figure 3B-16(OR)).*

83 **Standard:**

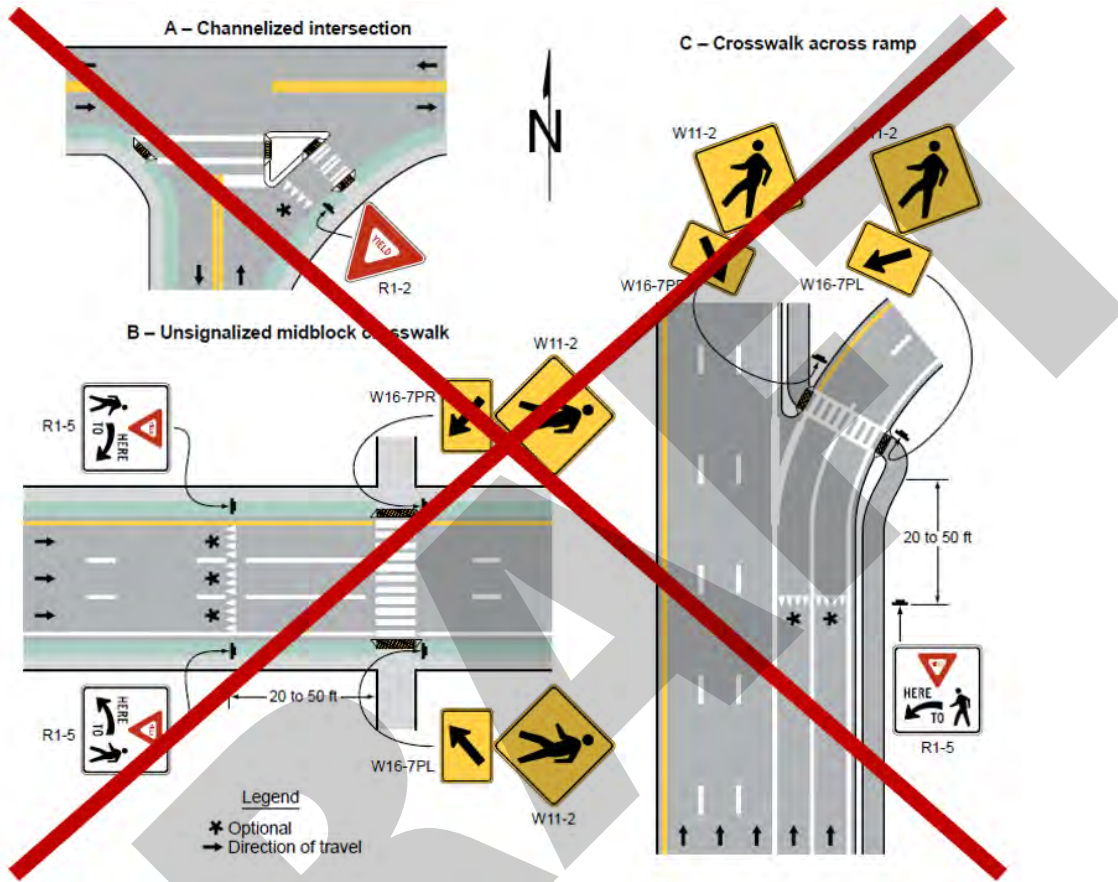
84 14 **If ~~yield (stop)~~ lines are used at a crosswalk that crosses an uncontrolled multi-lane approach,**
85 **~~Yield Here to (Stop Here for) Pedestrians (R1-5 series) signs (see Section 2B.19) shall be used.~~**

86 *Guidance:*

87 15 *If ~~yield (stop)~~ lines are used at a crosswalk that crosses an uncontrolled multi-lane approach, the ~~yield~~*
88 *~~(stop)~~ line should be placed 20 to 50 feet in advance of the nearest crosswalk line (see Drawing B in Figure*
89 *3B-16(OR)).*

90 16 If ~~yield or stop~~ lines are used in advance of a crosswalk that crosses an uncontrolled multi-lane
91 approach, parking should be prohibited in the area between the ~~yield or stop~~ line and the crosswalk.

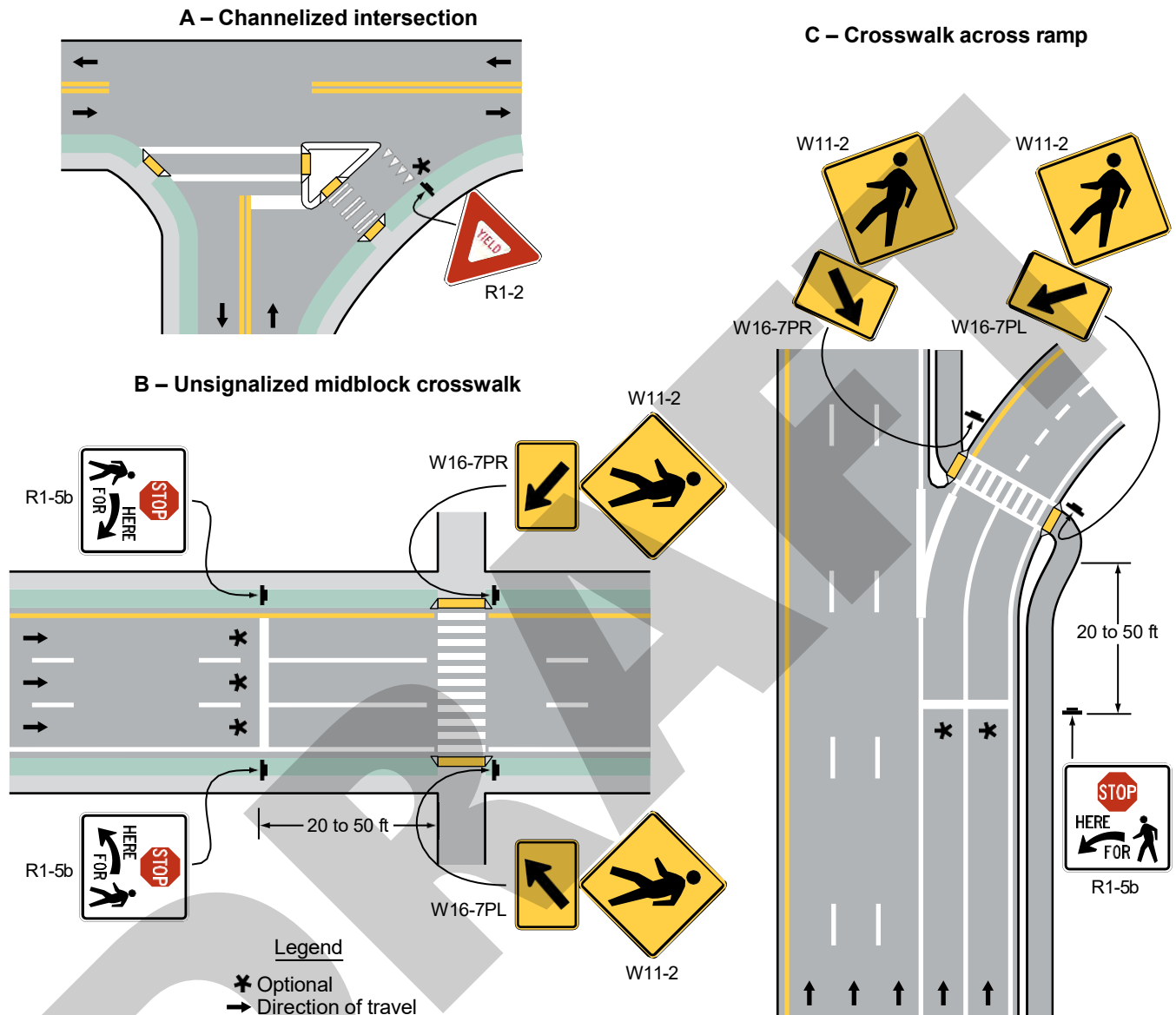
92 **Figure 3B-16. Examples of Yield Line Applications**



93
94

95

Figure 3B-16(OR). Examples of Yield and Stop Line Applications



96

97

98 Support:

99 17 Section 9B.12 contains information for providing signing applicable to bicyclists also subject to a
100 yielding requirement at a crosswalk that crosses an uncontrolled approach.

101 Guidance:

102 18 ~~Yield (stop)~~ Stop lines and ~~Yield Here to (Stop Here for)~~ Pedestrians signs should not be used in
103 advance of crosswalks that cross an approach to or departure from a circular intersection.

104 Support:

105 19 Section 8C.03 contains information regarding the use of stop lines and yield lines at grade crossings.

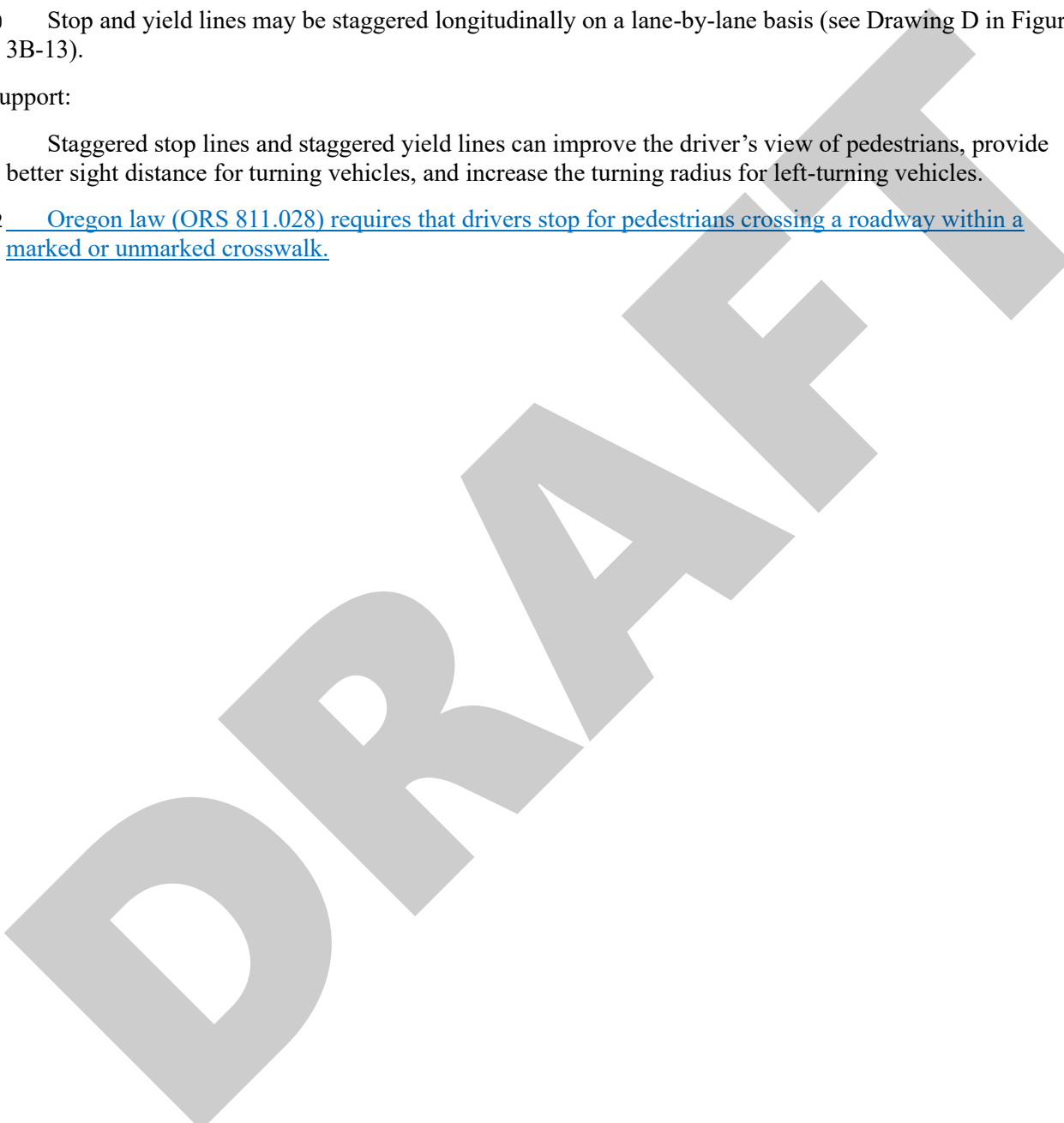
106 Option:

107 20 Stop and yield lines may be staggered longitudinally on a lane-by-lane basis (see Drawing D in Figure
108 3B-13).

109 Support:

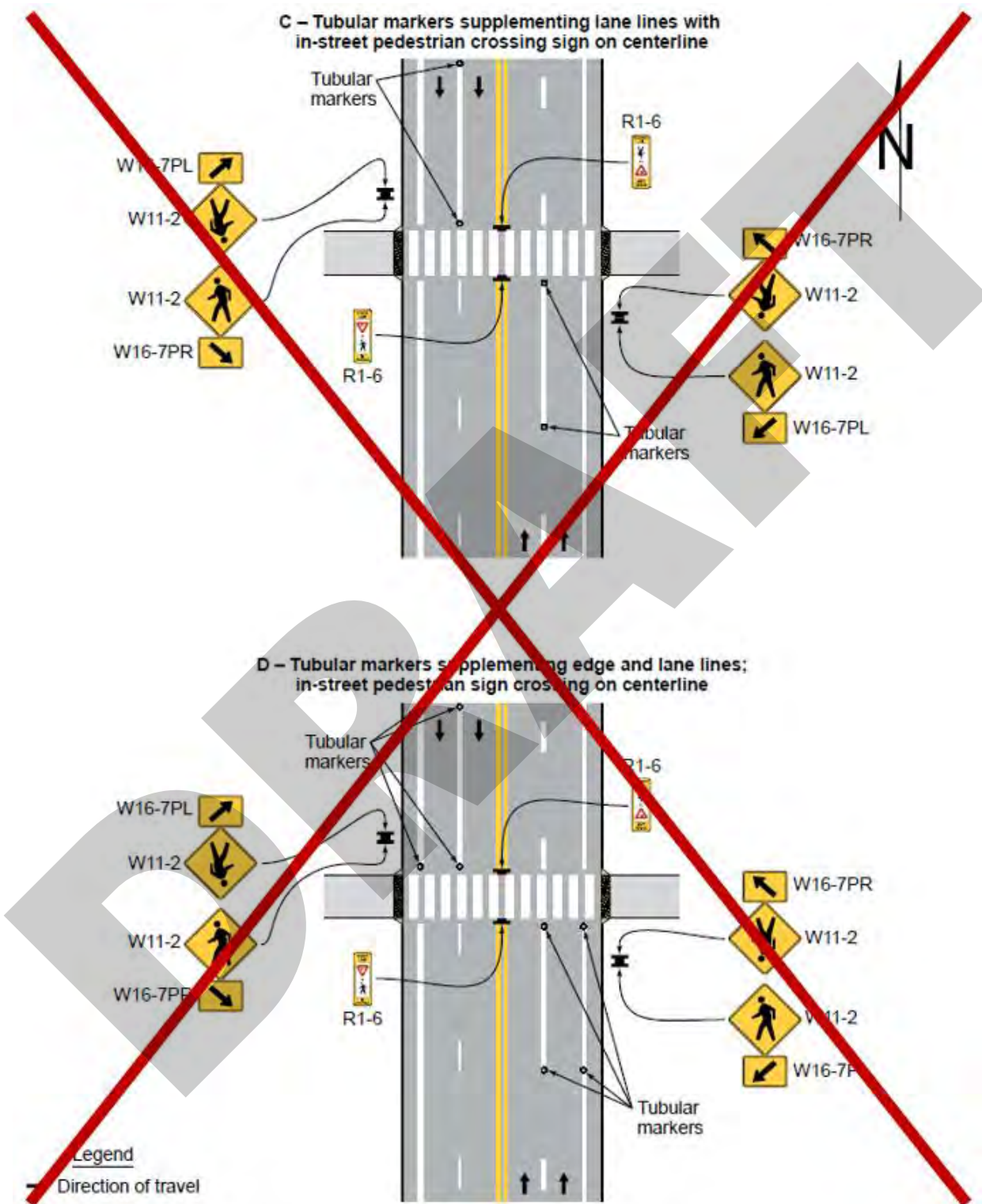
110 21 Staggered stop lines and staggered yield lines can improve the driver's view of pedestrians, provide
111 better sight distance for turning vehicles, and increase the turning radius for left-turning vehicles.

112 22 [Oregon law \(ORS 811.028\) requires that drivers stop for pedestrians crossing a roadway within a
113 marked or unmarked crosswalk.](#)



135
136

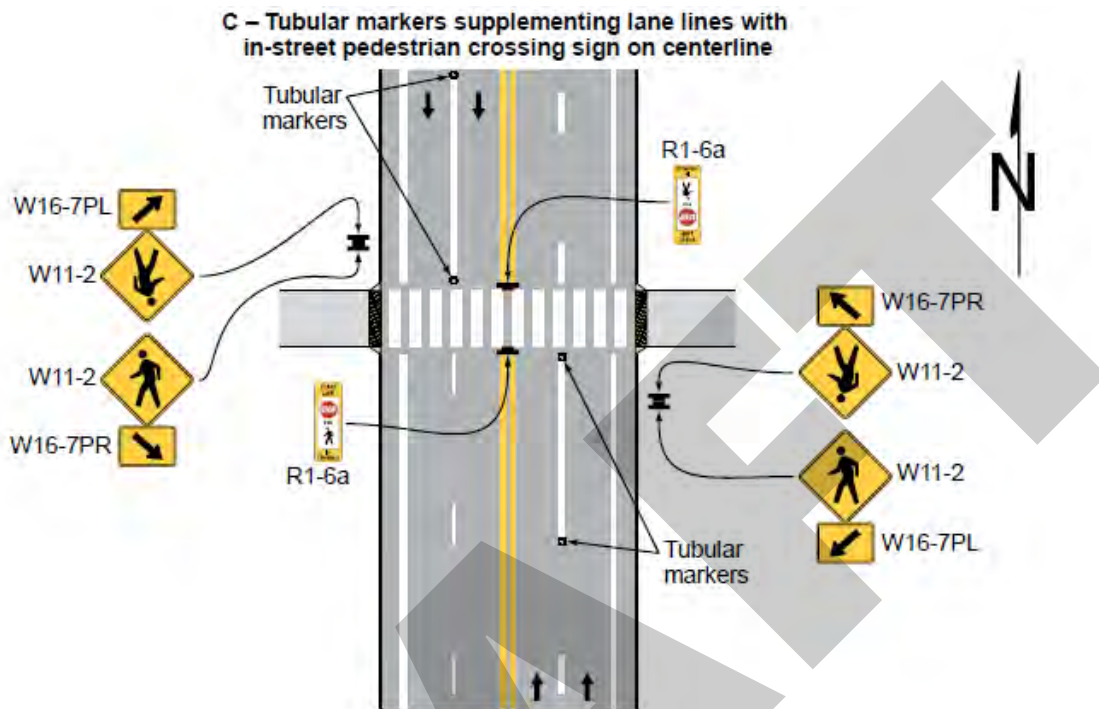
Figure 3I-1. Examples of Tubular Markers Supplementing Pavement Markings in Advance of an Unsignalized Crosswalk (Sheet 2 of 2)



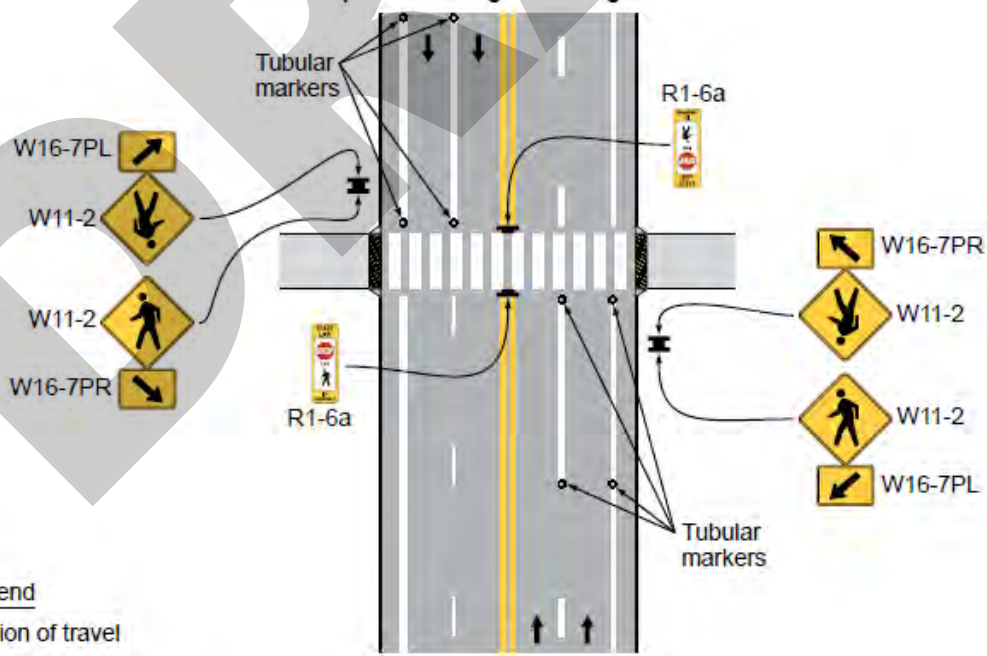
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Figure 3I-1(OR). Examples of Tubular Markers Supplementing Pavement Markings in Advance of an Unsignalized Crosswalk



D – Tubular markers supplementing edge and lane lines; in-street pedestrian sign crossing on centerline



140



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 3B.05 Pavement Markings for Two-Way Left-Turn Lanes	Last Revised January 03, 2025	Proposal No. 11303
Supplement Team 3-Markings	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) The 11th Edition of the MUTCD adds guidance that was not in the 2009 Edition that says two-way left-turn lanes should not extend to intersections. The 2009 Edition allowed this and many agencies in Oregon do this as common practice. This proposes to remove the added guidance.		
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1 **Problem**

2 The 11th Edition of the MUTCD added guidance that two-way left-turn lanes (TWLTL) should not
3 extend to intersections. The 2009 Edition allowed this and many agencies in Oregon do this as common
4 practice.

5 **Discussion**

6 When a TWLTL is added to a two-lane or four-lane street, crashes may be reduced. This reduction is
7 possible as stopped or slow left-turning vehicles aren't in the through lanes. Drivers in the TWLTL may
8 feel more comfortable waiting for an adequate gap in traffic instead of blocking through drivers. Delay
9 to through vehicles is also reduced because left-turning vehicles do not block the through lanes

10 In many locations in Oregon, driveways and intersection are very near each other and roadways use
11 TWLTLs to serve turns into these driveways and side streets. If these all had to be converted to
12 designated left turn lanes at intersections, Oregon would lose the safety benefit of allowing drivers to
13 and from driveways near that intersection to use the TWLTL.

14 Below are example locations in Oregon where TWLTLs extend to intersections. These locations also
15 have driveways nearby and it would be difficult to place a long enough left-turn lane at the intersection
16 and keep the TWLTL for the driveways. Drivers wanting to turn into driveway would likely use the left
17 turn lane anyway, facing the wrong direction.

18 **Figure 1: Example TWLTL at Intersection (1 of 3)**



19

20 **Figure 2: Example TWLTL at Intersection (2 of 3)**



21

22 **Figure 3: Example TWLTL at Intersection (3 of 3)**



23

24 The Highway Safety Manual has a crash modification factor for rural two-lane road. It suggests that
25 TWLTL on urban arterials appear to trend toward lower crashes, but the magnitude is uncertain.

26 The CMF Clearinghouse includes a [2010 study](#) indicating crash reduction for adding TWLTL to the
27 major approach of unsignalized 3-leg and 4-leg intersections. ODOT also has approved
28 countermeasures in its Crash Reduction Factor Manual of converting a 4-lane roadway to a 3-lane
29 roadway with a TWLTL as well as installing TWLTL on a 2-lane roadway. See countermeasure H-33
30 and H53 for more information in the link below.

31 <https://www.oregon.gov/odot/Engineering/ARTS/CRF-Manual.pdf>

32 Road authorities in Oregon have been extending TWLTL to intersection in compliance with the 2009
33 MUTCD in support of the safety benefits cited above. The proposed language in the 11th Edition would
34 make this more difficult in urban areas that have many driveways and intersections. This proposes to
35 remove the guidance added in the 11th Edition that says a TWLTLs should not extend to intersections,
36 thus using TWLTLs as allowed in the 2009 MUTCD and how road users are used to.

37 Proposed Supplement Content

38 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
39 [blue underline](#). This shows the entire section where the change is proposed unless noted otherwise.

40 CHAPTER 3B. PAVEMENT AND CURB MARKINGS

41 Section 3B.05 Pavement Markings for Two-Way Left-Turn Lanes

42 Standard:

43 01 **If a two-way left-turn lane that is never operated as a reversible lane is used, the lane line**
44 **pavement markings on each side of the two-way left-turn lane shall consist of a normal width broken**
45 **yellow line and a normal width solid yellow line to delineate the edges of a lane that can be used by**
46 **traffic in either direction as part of a left-turn maneuver. These markings shall be placed with the**
47 **broken line toward the two-way left-turn lane and the solid line toward the adjacent traffic lane as**
48 **shown in Figure 3B-7.**

49 Guidance:

50 02 *White two-way left-turn lane-use arrows should be used at or just downstream from the beginning of a*
51 *two-way left-turn lane.*

52 Option:

53 03 Additional two-way left-turn lane-use arrow markings may be used at other locations along a two-way
54 left-turn lane where engineering judgment determines that such additional markings are needed to
55 emphasize the proper use of the lane.

56 **Standard:**

57 04 **A single-direction lane-use arrow shall not be used in a lane bordered on both sides by yellow**
58 **two-way left-turn lane longitudinal markings.**

59 *Guidance:*

60 05 *Signs should be used in conjunction with the two-way left-turn markings (see Section 2B.32).*

61 06 ~~*Two-way left-turn lane markings should not extend to intersections (see definition in Section 1C.02).*~~

62 *Option:*

63 07 Two-way left-turn lanes may be transitioned to mandatory left-turn lanes as shown in Figure 3B-7 or
64 painted median islands where they approach an intersection.

65 *Support:*

66 08 Section 8A.06 contains guidance information for discontinuing a two-way left-turn lane in the
67 immediate vicinity of a highway-rail or highway-LRT grade crossing.



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 3B.11 Application of Pavement Markings through Intersections or Interchanges	Last Revised January 03, 2025	Proposal No. 11304
Supplement Team 3-Markings	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) As written, Section 3B.11 recommends all driveways should have edge line markings maintained across the intersection approach of driveway. Oregon has a history of breaking these edge lines for major driveways, due to their similar feel to intersections as well not wasting marking material traffic will wear down if the line is not broken. This supplement removes the recommendation for major intersections.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 **Problem**

2 As written, Section 3B.11 recommends all driveways should have edge line markings maintained across
3 the intersection approach of the driveway. Oregon has a history of breaking these edge lines for major
4 driveways, as they operate similarly to an intersection as well not wasting marking material that traffic
5 will wear down if the line is not broken.

6 **Discussion**

7 Given how FHWA wrote Section 3B.11 in the 11th Edition of the MUTCD, Oregon would have a lot of
8 locations that do not meet the recommendation of continuing edge lines through driveways. Examples
9 below.

10 **Figure 1: Edge Line Breaks for Major Driveway (1 of 3)**



11
12 **Figure 2: Edge Line Breaks for Major Driveway (2 of 3)**



13
14 **Figure 3: Edge Line Breaks for Major Driveway (3 of 3)**



15

16 These locations have characteristics like curb returns, stop signs, multiple approach lanes, turn lanes,
17 and substantial volumes on the driveway. With these characteristics, these driveways are very
18 comparable to a roadway intersection from the road user’s perspective.

19 Another thing to consider when breaking or striping these driveways is wear on the markings
20 themselves. Below are examples of how pavement markings can wear at minor driveways. With this
21 being common major driveways would expect to have even worse wear than minor driveways.
22 Breaking the edge lines at intersections avoids this wearing of materials and avoids any confusion with
23 any patterns in the markings caused by wearing.

24 **Figure 4: Edge Line Wear at Minor Driveway (1 of 2)**



25
26 **Figure 5: Edge Line Wear at Minor Driveway (2 of 2)**



27
28 This proposal as drafted would allow edge lines to be broken through major driveways. This is in line
29 with the guidance of the 2009 MUTCD and is consistent with current practice. With this proposal,
30 guidance for markings at major driveways would meet current driver expectation and avoid confusion
31 from drivers.

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 3B. PAVEMENT AND CURB MARKINGS

Section 3B.11 Application of Pavement Markings through Intersections or Interchanges

Standard:

Pavement markings extended into or continued through an intersection or interchange area shall be the same color as the line markings they extend (see Figure 3B-13).

Guidance:

Pavement markings extended into or continued through an intersection or interchange area should be at least the same width as the line markings they extend.

Where highway design or reduced visibility conditions make it desirable to provide control or to guide vehicles through an intersection or interchange, such as at offset, skewed, complex, or multi-leg intersections, on curved roadways, where multiple turn lanes are used, or where offset left-turn lanes might cause driver confusion, dotted lane line extension markings consisting of 2-foot line segments and 2-foot to 6-foot gaps should be used to extend longitudinal line markings through an intersection or interchange area.

Where greater restriction is preferred, solid lane lines or channelizing lines should be extended into or continued through intersections.

Standard:

Extensions of center lines through intersections shall be dotted lines.

Guidance:

Where a double line is extended through an intersection, a single line of equal width to one of the lines of the double line should be used.

Standard:

Solid lines shall not be used to extend edge lines into or through intersections except through that part of an intersection with no intersecting approach (such as at the far side of a T-intersection).

Guidance:

Edge line markings should be discontinued across intersecting approaches at intersections or interchanges.

Driveways that do not meet the definition of an intersection (see Section 1C.02), or are not major driveways, should have edge line markings maintained across the intersecting approach of the driveway.

64 Support:

65 09a Major driveway indicators include:

- 66 A. Curb returns and/or significant radii (not a dustpan design or curb cut).
- 67 B. A STOP sign at the driveway.
- 68 C. Multiple approach lanes on the driveway.
- 69 D. Turn lanes present on the major roadway at the driveway.
- 70 E. Substantial volumes entering and leaving the driveway.

71 09b Minor driveway indicators include:

- 72 A. Dustpan design, curb cut, or small radii.
- 73 B. Narrow width of intersecting roadway.
- 74 C. Minor volumes entering and leaving driveway (e.g.: single home or small business).

75 Option:

76 10 Dotted edge line extensions may be placed through intersections.

77 Support:

78 11 Section 3B.31 contains information about edge lines through diverging diamond interchanges with a
79 transposed alignment crossroad.

80 12 Section 3D.03 provides information for edge lines through roundabouts.

81 13 Section 5B.02 contains information on edge line extensions for driving automation system
82 considerations.

83 14 Section 8C.05 contains information about the extension of edge lines through grade crossing areas.

84 15 Section 9E.03 contains information for the extensions of bicycle lanes through intersections.



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 3B.12 Lane Reduction Transitions	Last Revised January 03, 2025	Proposal No. 11305
Supplement Team 3-Markings	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) Figure 3B-14 in Section 3B.12 (Lane Reduction Transitions) is on the FHWA’s known error list. In Figure 3B-14 the sign assembly location is in the wrong location. This can lead to incorrect sign placement at lane reductions if this is not addressed.		
This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.		
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1 Problem

2 Figure 3B-14 in Section 3B.12 Lane Reduction Transitions is on FHWA’s known error list. In Figure 3B-
3 14 the sign assembly is in the incorrect location. This can lead to incorrect sign placement at lane
4 reductions if the Supplement does not address it.

5 Discussion

6 FHWA published the know errors of the 11th Edition of the MUTCD. This proposes to address the
7 known error of the sign placement in Figure 3B-14. The placement of sign W4-2R in Figure 3B-14
8 moved to the correct location.

9 Figure 1: FHWA Known Error for Figure 3B-14

Figure 3B-14

- Both drawings A – Lane reduction and B – Lane reduction with lateral shift to the left: The W4-2R signs should be located at the advanced placement distance where the W9-1R and W16-2P signs and plaques are shown. The W9-1R and W16-2P signs and plaques should be shown at a location in advance of the W4-2R signs. (May 10, 2024)

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 3B. PAVEMENT AND CURB MARKINGS

Section 3B.12 Lane-Reduction Transitions

Support:

01 A lane-reduction is where the number of through lanes is reduced at a location that is not at an
02 interchange or intersection because of narrowing of the roadway or because of a section of on-street parking
03 in what would otherwise be a through lane.

04 Section 3B.07 contains information on pavement markings for lane drops and splits.

05 Section 2C.47 contains information for warning signing used for lane reductions.

Standard:

06 **Lane-reduction transitions (see Figure 3B-14) shall include the following elements:**

07 **A. A no-passing zone (see Section 3B.03) to prohibit passing in the direction of the convergence**
08 **and through the transition area except where not applicable such as one-way streets,**
09 **expressways, and freeways; and**

10 **B. An edge line (see Section 3B.09) in the direction of the convergence and through the transition**
11 **area, except as provided in Paragraph 6 of this Section.**

Guidance:

12 Except as provided in Paragraph 6 of this Section, the edge line marking should be installed from the
13 location of the Lane Ends warning sign to beyond the beginning of the narrower roadway.

Option:

14 On roadways with operating speeds less than 25 mph where curbs clearly define the roadway edge in
15 the lane reduction transition, or where a through lane becomes a parking lane, the edge line may be omitted
16 as determined by engineering judgment.

Guidance:

17 *Lane-reduction transitions should include the following elements:*

18 *A. Delineators installed adjacent to the lane or lanes reduced for the full length of the transition and*
19 *should be so placed and spaced (see Section 3G.04) to show the reduction except as provided in*
20 *Paragraph 13 of this Section and except as provided in Paragraph 2 of Section 3G.03 for freeways*
21 *and expressways,*

22 *B. Lane-reduction arrow markings (see Drawing F in Figure 3B-21) on the roadway with a speed limit*
23 *of 45 mph or more, and*

44 C. *A termination of the broken white lane line at a point that is 1/4 of the advance placement distance*
45 *(see Section 2C.04) between the Lane Ends sign (see Section 2C.47) and the point where the*
46 *transition taper begins.*

47 08 *For roadways having a speed limit of 45 mph or greater, the transition taper length for a lane-reduction*
48 *transition should be computed by the formula $L = WS$, where L equals the taper length in feet, W equals the*
49 *width of the offset distance in feet, and S equals the 85th-percentile speed or the speed limit in mph,*
50 *whichever is higher. For roadways where the speed limit is less than 45 mph, the formula $L = WS^2/60$*
51 *should be used to compute the taper length.*

52 09 *The minimum lane reduction transition taper length should be 100 feet in urban areas and 200 feet in*
53 *rural areas.*

54 10 *Where observed speeds exceed speed limits, longer tapers should be used.*

55 Option:

56 11 The minimum taper length may be less than 100 feet on roadways where the operating speed is less
57 than 25 mph.

58 12 On new construction, where no speed limit has been established, the design speed may be used in the
59 transition taper length formula.

60 13 On low-speed urban roadways where curbs clearly define the roadway edge in the lane-reduction
61 transition, or where a through lane becomes a parking lane, delineators may be omitted as determined by
62 engineering judgment.

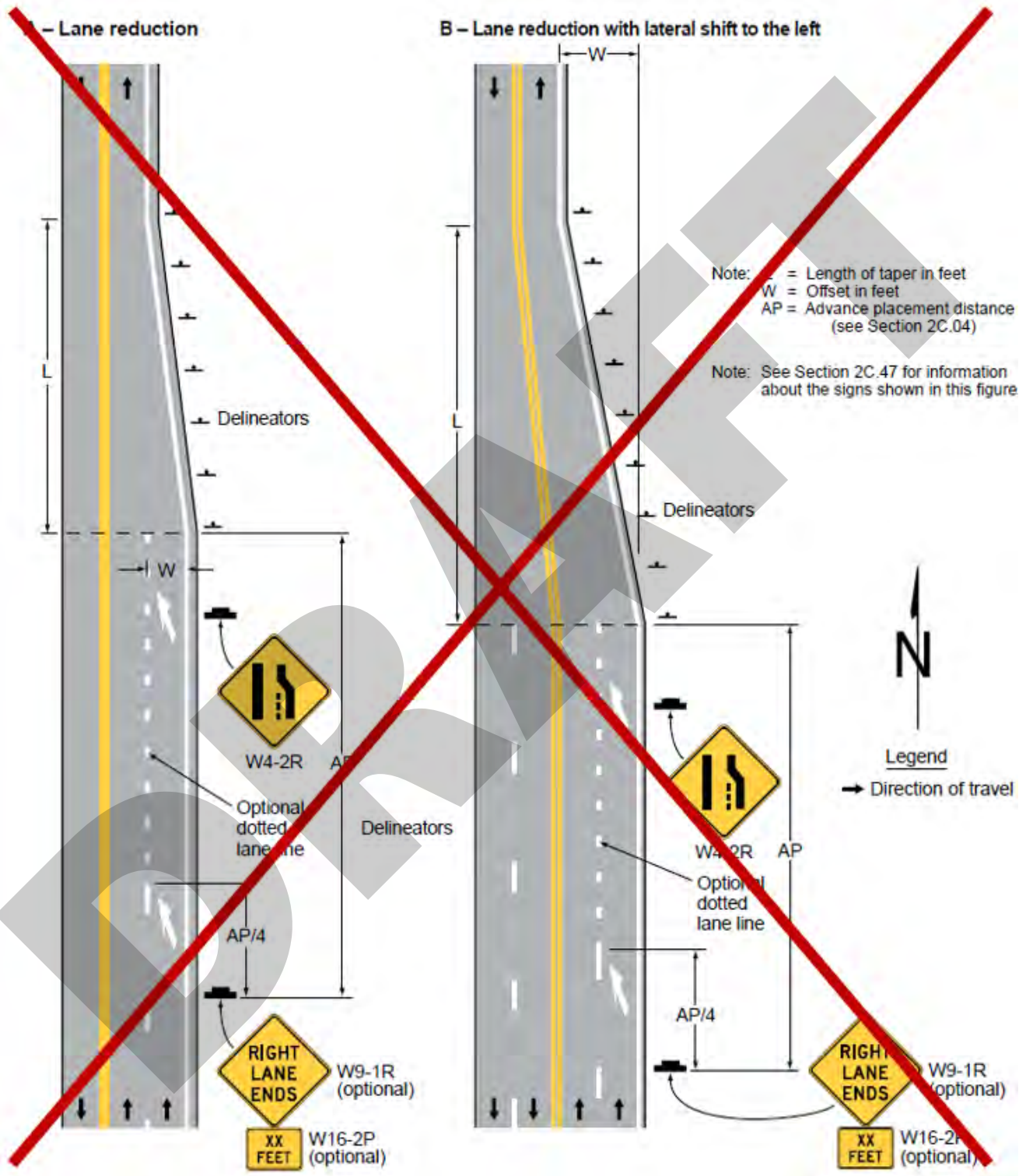
63 14 Where a lane-reduction transition occurs on a roadway with a speed limit of less than 45 mph, lane-
64 reduction arrow markings may be used.

65 15 Lane-reduction arrow markings may be used in long acceleration lanes based on engineering judgment.

66 16 A dotted white line may be used between the point where the broken white lane line is terminated to the
67 point where the transition taper begins.

68

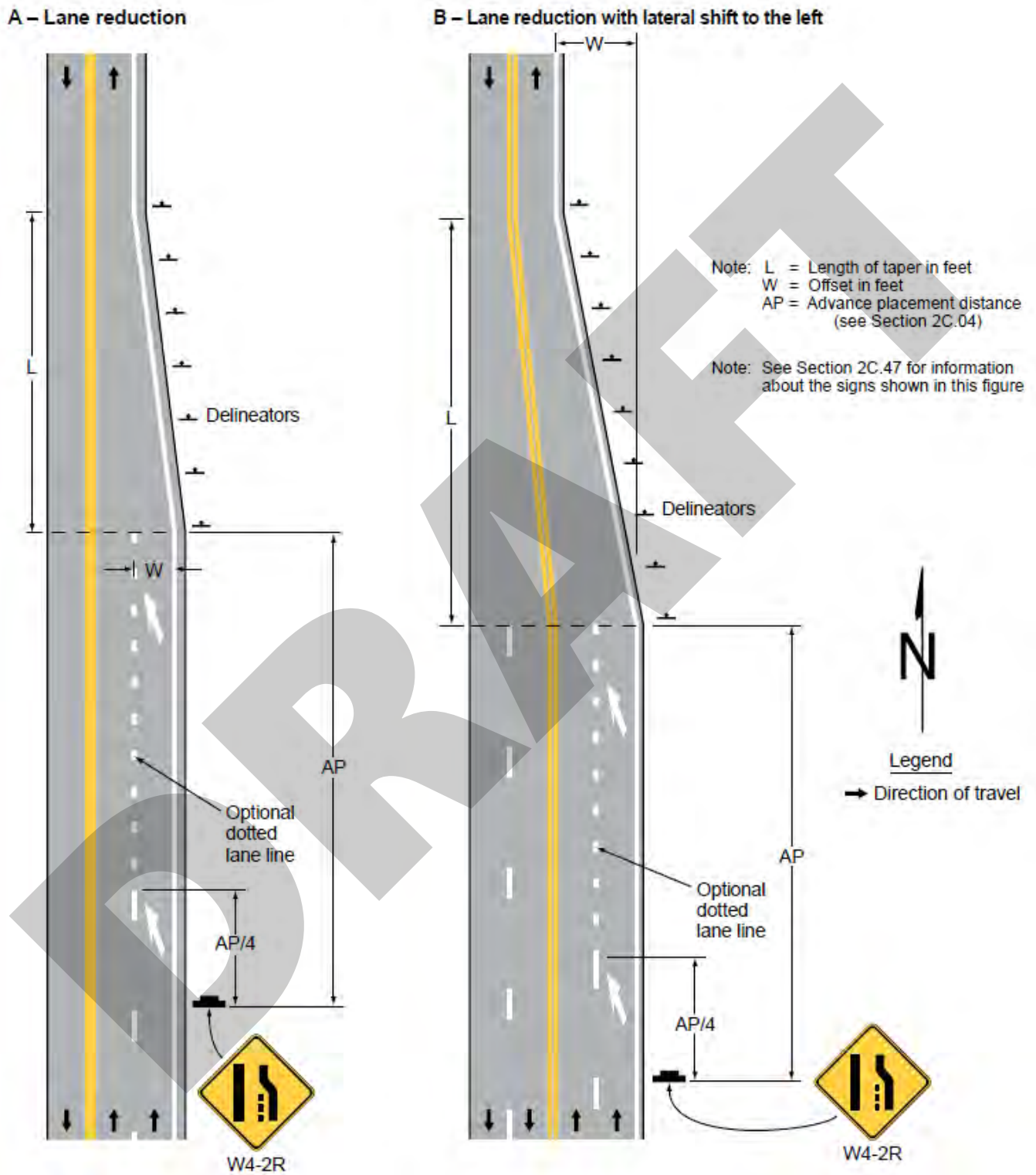
Figure 3B-14. Examples of Applications of Lane-Reduction Transition Markings



69

70

Figure 3B-14(OR). Examples of Applications of Lane-Reduction Transition Markings



71



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 3C.03 – Design of Crosswalk Markings	Last Revised January 03, 2025	Proposal No. 11306
Supplement Team 3-Markings	Status FHWA Review – Round 2	Type New
Summary (2-3 sentences) Section 3C.03 Paragraph 09 could lead to unintended confusion without clarification. This proposes adding clarifying language.		
This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.		
The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:		
<ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Section 3C.03 Paragraph 09 says crosswalks is a standard that says, “Where curb ramps are provided,
3 crosswalk markings shall be located so that the curb ramps are within the extension of the crosswalk
4 markings.” This could lead to unintended confusion about needing to mark all crosswalks wherever a
5 curb ramp is provided.

6 Discussion

7 Without clarification, practitioners could take Paragraph 09 that crosswalks must be marked wherever
8 curb ramps are provided. FHWA’s Supplemental Summary of Final Rule Dispositions describes this
9 change in NPA Item 348.

10 Figure 1: FHWA Final Rule Disposition for 3C.03 Paragraph 09.

In addition, FHWA proposes changing P17 from a Guidance to Standard requiring, rather than recommending, crosswalk markings to be located so that the curb ramps are within the extension of the crosswalk markings, where curb ramps are provided. FHWA proposes this change to accommodate users with visual disabilities better.	The proposal to change the Guidance regarding curb ramps being located within the extension of the crosswalk markings to Standard is adopted as proposed.
---	---

12 This proposes adding a clarification in the Supplement to address potential confusion and uphold the
13 intent of the standard.

14 Proposed Supplement Content

15 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
16 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

17 CHAPTER 3C. CROSSWALK MARKINGS

18 Section 3C.03 Design of Crosswalk Markings

19 Support:

20 01 Section 3B.19 contains information regarding placement of stop line markings and yield line markings
21 near crosswalk markings.

22 02 Crosswalk markings are classified as either transverse line or high-visibility. Transverse crosswalk
23 markings consist of two transverse lines. High-visibility markings consist of longitudinal lines parallel to
24 traffic flow with or without transverse lines. Figure 3C-1 presents crosswalk marking designs.

25 **Standard:**

26 03 **Crosswalk markings shall be white. When used, transverse lines shall not be less than 6 inches or
27 greater than 24 inches in width.**

28 Support:

29 04 The allowable upper limit approaching 24 inches for the width of the transverse lines is normally
30 applied where no stop or yield line is used in advance of the crosswalk or when approach speeds exceed 35
31 miles per hour.

32 **Standard:**

33 05 **Except as provided in Paragraph 6 of this Section, the minimum width of a marked crosswalk
34 shall be 6 feet.**

35 06 **At a non-intersection crosswalk where the posted speed limit is 40 mph or greater, the minimum
36 width of the crosswalk shall be 8 feet.**

37 *Guidance:*

38 07 *High-visibility crosswalk markings (such as shown in Figure 3C-1) and warning signs (see Section
39 2C.55) should be installed for all crosswalks at non-intersection locations.*

40 08 *Added visibility should be provided by parking prohibitions on the approach to marked crosswalks at
41 non-intersection locations.*

42 **Standard:**

43 09 **Where curb ramps are provided at marked crosswalks, crosswalk markings shall be located so**
44 **that the curb ramps are within the extension of the crosswalk markings.**

45 *Guidance:*

46 10 *Transverse line crosswalk markings should extend across the full width of pavement or to the edge of*
47 *the intersecting crosswalk to discourage diagonal walking between crosswalks.*

48 **Support:**

49 11 Provisions for aesthetic treatments for the interior portion of a legally-established crosswalk are
50 contained in Section 3H.03.

51 **Standard:**

52 12 **If paving materials are used to function as the white transverse lines to establish a marked**
53 **crosswalk, white additives shall be part of the mixture to produce a white surface. The white paving**
54 **materials shall be retroreflective.**



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 3C.06 – High-Visibility Crosswalks	Last Revised January 03, 2025	Proposal No. 11307
Supplement Team 3-Markings	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) As written, Section 3C.05 requires three elements to establish a high-visibility crosswalk. Separated bike lanes have marked crosswalks in some cases. Under MUTCD’s standards for high-visibility crosswalk markings, bike lanes would always need to be greater than 5 feet wide to fit a high-visibility crosswalk across the bike lane. Not all bike lanes in Oregon are 5 feet wide. This proposes adding an option for high-visibility crosswalks in bike lanes that allows narrower spacing or fewer longitudinal elements.		
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1 **Problem**

2 As written, Section 3C.05 requires three elements to establish a high-visibility crosswalk. Marked
3 crosswalks can cross bike lanes. Under MUTCD’s standards for high-visibility crosswalk markings,
4 bike lanes would always need to be greater than 5 feet wide to fit a high-visibility crosswalk across the
5 bike lane. Not all bike lanes in Oregon are 5 feet wide. This proposes adding an option for high-
6 visibility crosswalks in bike lanes that allows narrower spacing or fewer longitudinal elements.

7 **Discussion**

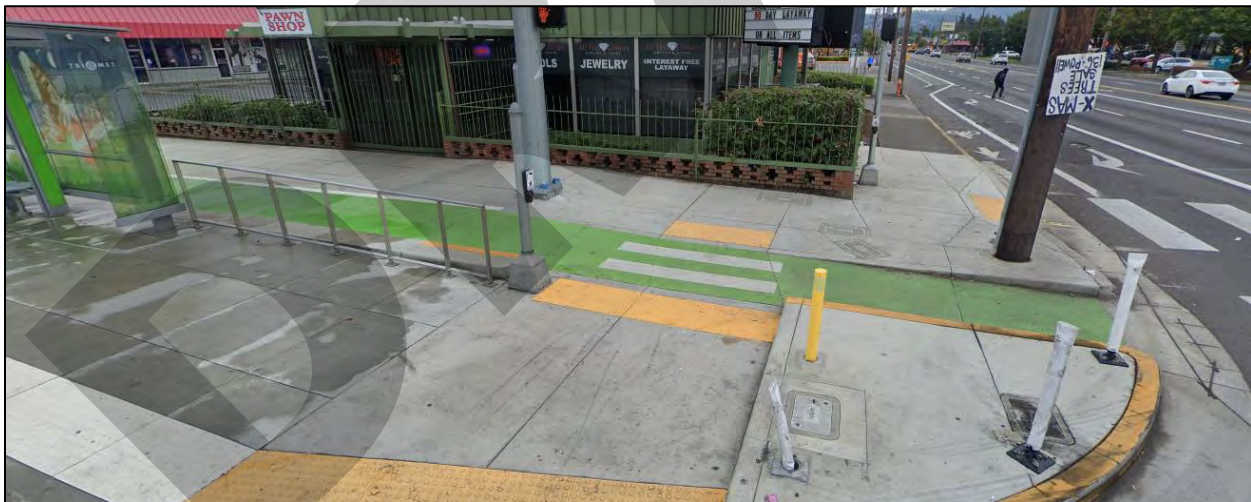
8 The minimum width layout and minimum number of elements to create a high-visibility crosswalks
9 means this marking pattern will not fit on narrow separated bike lanes. The narrowest high-visibility
10 marking option (longitudinal bar) is 5 feet wide. While this will be sufficient for most applications,
11 there may be cases where a narrower separated bike lane is needed to fit the needs of the location.

12 For example, there is design practice in Oregon at some bus stop locations that separate the bike lane
13 from the roadway and have it cross the pedestrian area loading zone for buses. These locations do not
14 always have the space required to meet the minimum number of elements with the minimum spacing.
15 See Figure 1 below. Constrained urban environments may also mean separated bicycle lanes need to
16 narrow for other features, like in Figure 2.
17 This proposal would add an option for high-visibility crosswalks in bike lanes that allows the narrower
18 spacing or fewer longitudinal elements. This proposal would make locations like the examples below
19 follow the Supplement.

20 **Figure 1: Crosswalk Markings Across Narrow Separated Bicycle Lane (1 of 2)**



21
22 **Figure 2: Crosswalk Markings Across Narrow Separated Bicycle Lane (2 of 2)**



23

24 Proposed Supplement Content

25 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
26 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

27 CHAPTER 3C. CROSSWALK MARKINGS

28 Section 3C.05 High-Visibility Crosswalks

29 Option:

30 01 High-visibility crosswalk markings may be used where additional conspicuity is desired for a crosswalk
31 over transverse line crosswalk markings.

32 Support:

33 02 High-visibility crosswalk markings include the longitudinal bar, ladder, and bar pair designs (see Figure
34 3C-1).

35 03 High-visibility crosswalk markings can provide benefits to crosswalk operations including:

- 36 A. Providing greater detection distances for the approaching motorist.
- 37 B. Emphasizing a crosswalk where substantial numbers of pedestrians cross without any other traffic
38 control device.
- 39 C. Emphasizing a crosswalk at an uncontrolled approach.
- 40 D. Emphasizing the location where a high number of conflicts between turning motorists and users of
41 the crosswalk are expected.
- 42 E. Improving visibility of the crosswalk location for otherwise difficult-to-detect pedestrians or other
43 nonmotorized users of the crosswalk.
- 44 F. Emphasizing a school crossing.

45 Standard:

46 04 Except as provided in Paragraph 4a of this section, the ~~The~~ **minimum number of individual**
47 **longitudinal elements to establish a high-visibility crosswalk shall be three. For the bar pair crosswalk**
48 **design (see Section 3C.08), a coupling set of two longitudinal bars shall be considered to be one**
49 **individual longitudinal element.**

50 Option:

51 04a In bike lanes with a high-visibility crosswalk where minimum spacing between elements or number of
52 longitudinal elements cannot be met because of the bike lane width, lateral spacing between elements or the
53 number of elements may be reduced.

54 Guidance:

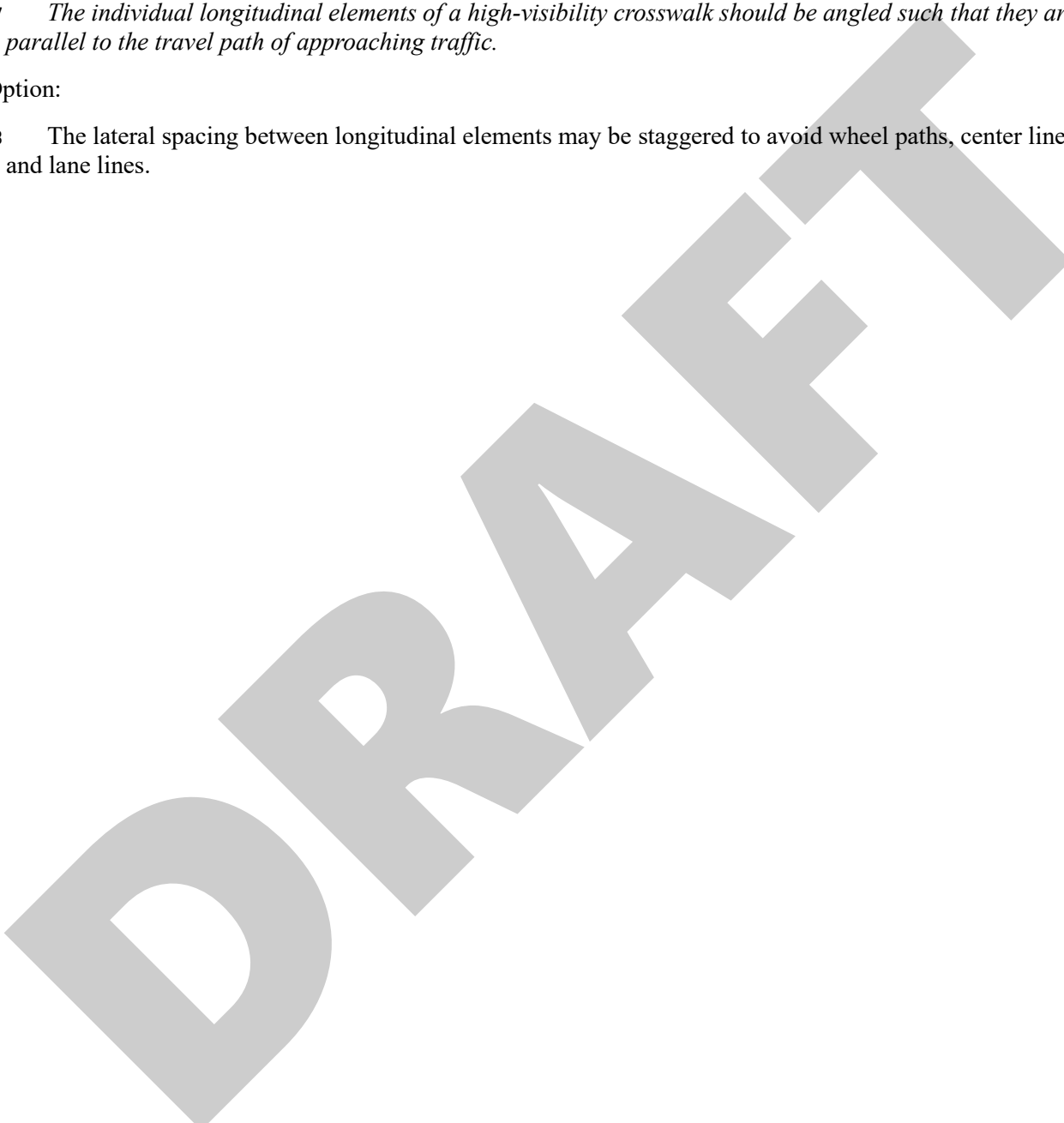
55 05 *The dimensions of the individual longitudinal element and the lateral spacing between subsequent*
56 *individual longitudinal elements for a high-visibility crosswalk should be uniform when establishing the*
57 *crosswalk.*

58 06 *The dimensions of the individual longitudinal element and the lateral spacing between subsequent*
59 *individual longitudinal elements for a high-visibility crosswalk should be uniform when establishing*
60 *separate crosswalks on multiple approaches to the same intersection and on both sides of a median refuge if*
61 *one is present.*

62 07 *The individual longitudinal elements of a high-visibility crosswalk should be angled such that they are*
63 *parallel to the travel path of approaching traffic.*

64 Option:

65 08 The lateral spacing between longitudinal elements may be staggered to avoid wheel paths, center lines,
66 and lane lines.





**OREGON TRAFFIC CONTROL DEVICES COMMITTEE
OREGON SUPPLEMENT TO THE MUTCD 11th EDITION
SUPPLEMENT PROPOSAL**

MUTCD 11th Ed. Section(s) Affected 3J.03 – Islands Designated by Pavement Markings	Last Revised January 03, 2025	Proposal No. 11308
Supplement Team 3-Markings	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) Section 3J.03 only allows white markings for a crosswalk within the island created by two sets of solid double yellow lines. In some scenarios, green pavement markings for bicycle facilities may be appropriate, such as green bike lane extension markings across one of these islands. Green markings may be desired but would not be allowed as written.		
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1 **Problem**

2 Section 3J.03 only allows white markings for a crosswalk within the island created by two sets of
3 double yellow lines. In some scenarios, green pavement markings for bicycle facilities may be
4 appropriate, such as green bike lane extension markings across one of these islands, and green
5 markings may be desired but would not be allowed as written.

6 **Discussion**

7 In some cases, medians can be continuous though intersections and vehicle travel may be restricted to
8 right-in right out, but bicycles may still be allowed to cross. In this scenario, green colored pavement
9 installed according to MUTCD 11th Edition Section 3H.06 or Figure 9E-14 may be desired. As written
10 now, Section 3J.03 would not allow green in these scenarios.

11 This proposes to allow green markings which, following Section 3H.06, would be allowed in the correct
12 scenarios.

13 **Figure 1: Green Markings in Median**



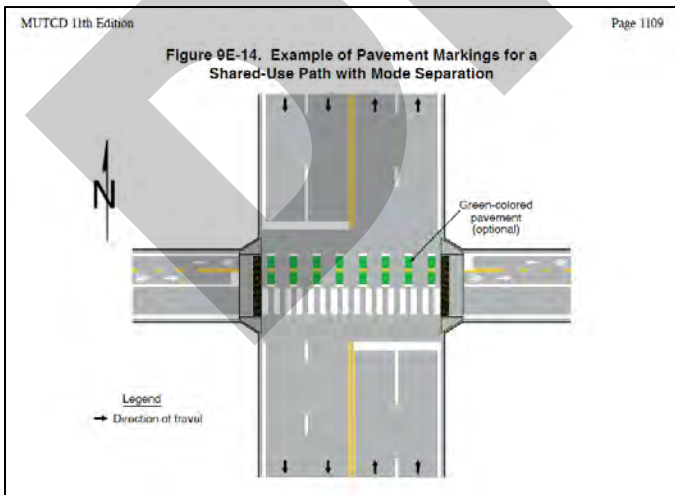
14
15 Note: this shows a raised median, but green bike lane markings might be desired in a painted median.

16 **Figure 2: Shared-Use Path Crossing Painted Median**



17
18 Note: this shows crosswalk markings. However, green markings could be used if this shared-use path
19 separated modes, like MUTCD Figure 9E-14.

20 **Figure 3: MUTCD 11th Edition Figure 9E-14**



21
January 03, 2025

22 Proposed Supplement Content

23 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
24 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

25 CHAPTER 3J. MARKING AND DELINEATION OF ISLANDS AND SIDEWALK 26 EXTENSIONS

27 Section 3J.03 Islands Designated by Pavement Markings

28 Standard:

29 01 Except as provided in Paragraph 2 of this Section, islands formed by pavement markings only
30 shall be established using channelizing lines, and shall be white when separating traffic flows in the
31 same general direction or yellow when separating opposing directions of traffic.

32 02 If a continuous flush median island separating travel in opposite directions is used, two sets of
33 double solid yellow lines shall be used to form the island (see Figure 3B-5). Other markings in the
34 median island area, such as diagonal lines (see Section 3B.25), shall also be yellow, except crosswalk
35 markings which shall be white (see Chapter 3C) and green-colored pavement for bicycle facilities
36 which shall be green and follow Section 3H.06.

37 03 If used, chevron or diagonal markings (see Section 3B.25) within the island shall be the same
38 color as the channelizing line.

39 Option:

40 04 Both chevron and diagonal markings of the same color may be used within the same island based on
41 engineering judgment.

42 05 The area within the flush island delineated by pavement markings may use colored pavement in
43 accordance with the provisions of Chapter 3H.

44 Support:

45 06 Figure 3J-2 illustrates examples of islands designated by pavement markings.



**OREGON TRAFFIC CONTROL DEVICES COMMITTEE
OREGON SUPPLEMENT TO THE MUTCD 11th EDITION
SUPPLEMENT PROPOSAL**

MUTCD 11th Ed. Section(s) Affected 4A.02 – Meanings of Signal Indications	Last Revised January 03, 2025	Proposal No. 11401
Supplement Team 4-Signals	Status FHWA Review – Round 1	Type Carryover
Summary (2-3 sentences) Conflict with Oregon law. ORS 811.260 and 811.360 allows a right turn on red arrow. This proposes a direct carry-over from the 2009 MUTCD and Oregon Supplement.		
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1 [Editor’s note: Proposal No. 11204 is a parallel proposal related to turns on red arrows.]

2 **Problem**

3 Conflict with Oregon law.

4 **Discussion**

5 ORS 811.260(8) and 811.360(1)(a) & (b) allows a right turn on red arrow. This proposes a direct carry-
6 over from the 2009 MUTCD and Oregon Supplement. See clip of Oregon Law below.

811.260 Appropriate driver responses to traffic control devices.

Except as provided in ORS 811.265 (2), a driver is in violation of ORS 811.265 if the driver makes a response to traffic control devices that is not permitted under the following:

[Sections (1) through (7) not shown.]

- (8) Steady red arrow signal. A driver facing a steady red arrow signal, alone or in combination with other signal indications, may not enter the intersection to make the movement indicated by the red arrow signal. Unless entering the intersection to make some other movement which is permitted by another signal, a driver facing a steady red arrow signal shall stop at a clearly marked stop line, but if none, before entering the marked crosswalk on the near side of the intersection, or if there is no marked crosswalk, then before entering the intersection. The vehicle shall remain stopped until a green light is shown except when the driver is permitted to proceed under ORS 811.360.

[Sections (9) through (17) not shown.]

7

811.360 Vehicle turns permitted at stop light; proceeding against traffic control device; improperly proceeding at stop light; penalty.

- (1) The driver of a vehicle, subject to this section, who is intending to turn at an intersection where there is a traffic control device showing a steady circular red signal, a steady red bicycle signal or a steady red arrow signal may do any of the following without violating ORS 811.260 and 811.265:

- (a) Make a right turn into a two-way street.
- (b) Make a right or left turn into a one-way street in the direction of traffic upon the one-way street.

[Sections (2) through (5) not shown.]

8

Proposed Supplement Content

9 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
10 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

11

CHAPTER 4A. GENERAL

12

Section 4A.02 Meanings of Signal Indications

13

Support:

14

14a The appropriate driver response to traffic control devices in Oregon and the conditions when a vehicle
15 turn is permitted at a traffic control signal are governed by ORS 811.260 and 811.360 respectively.

15

16 01 The “Uniform Vehicle Code” (see Section 1A.06) is the primary source for the standards for the
17 meanings of vehicular signal indications to both vehicle operators and pedestrians as provided in Sections
18 4A.03 and 4A.04, the standards for the meanings of separate bicycle signal face indications as provided in
19 Section 4A.05, and the standards for the meanings of separate pedestrian signal head indications as
20 provided in Section 4A.06.

21 02 The physical area that is defined as being “within the intersection” is dependent upon the conditions
22 that are described in the definition of an intersection in Section 1C.02.

23 **Section 4A.03 Meanings of Steady Vehicular Signal Indications**

24 **Standard:**

25 01 **The following meanings shall be given to steady highway traffic signal indications for vehicles and**
26 **pedestrians:**

27 **A. Steady green signal indications shall have the following meanings:**

28 **1. Vehicular traffic facing a CIRCULAR GREEN signal indication is permitted to**
29 **proceed straight through or turn right or left or make a U-turn movement except as**
30 **such movement is modified by lane-use signs, turn prohibition signs, lane markings,**
31 **roadway design, separate turn signal indications, or other traffic control devices.**
32 **Such vehicular traffic, including vehicles turning right or left or making a U-turn**
33 **movement, shall yield the right-of-way to:**

- 34 **(a) Pedestrians lawfully within an associated crosswalk, and**
35 **(b) Other vehicles lawfully within the intersection.**

36 **In addition, vehicular traffic turning left or making a U-turn movement to the**
37 **left shall yield the right-of-way to other vehicles approaching from the opposite**
38 **direction so closely as to constitute an immediate hazard during the time when such**
39 **turning vehicle is moving across or within the intersection.**

40 **2. Vehicular traffic facing a GREEN ARROW signal indication, displayed alone or in**
41 **combination with another signal indication, is permitted to cautiously enter the**
42 **intersection only to make the movement indicated by such arrow, or such other**
43 **movement as is permitted by other signal indications displayed at the same time.**

44 **Such vehicular traffic, including vehicles turning right or left or making a U-**
45 **turn movement, shall yield the right-of-way to:**

- 46 **(a) Pedestrians lawfully within an associated crosswalk, and**
47 **(b) Other vehicles lawfully within the intersection.**

48 **3. Pedestrians facing a CIRCULAR GREEN signal indication, unless otherwise**
49 **directed by a pedestrian signal indication or other traffic control device, are**
50 **permitted to proceed across the roadway within any marked or unmarked associated**
51 **crosswalk. The pedestrian shall yield the right-of-way to vehicles lawfully within the**
52 **intersection or so close as to create an immediate hazard at the time that the green**
53 **signal indication is first displayed.**

54 4. Pedestrians facing a GREEN ARROW signal indication, unless otherwise directed by
55 a pedestrian signal indication or other traffic control device, shall not cross the
56 roadway.

57 B. Steady yellow signal indications shall have the following meanings:

58 1. Vehicular traffic facing a steady CIRCULAR YELLOW signal indication is thereby
59 warned that the related green movement or the related flashing arrow movement is
60 being terminated or that a steady red signal indication will be displayed immediately
61 thereafter when vehicular traffic shall not enter the intersection. The rules set forth
62 concerning vehicular operation under the movement(s) being terminated shall
63 continue to apply while the steady CIRCULAR YELLOW signal indication is
64 displayed.

65 2. Vehicular traffic facing a steady YELLOW ARROW signal indication is thereby
66 warned that the related GREEN ARROW movement or the related flashing arrow
67 movement is being terminated. The rules set forth concerning vehicular operation
68 under the movement(s) being terminated shall continue to apply while the steady
69 YELLOW ARROW signal indication is displayed.

70 3. Pedestrians facing a steady CIRCULAR YELLOW or YELLOW ARROW signal
71 indication, unless otherwise directed by a pedestrian signal indication or other traffic
72 control device shall not start to cross the roadway.

73 C. Steady red signal indications shall have the following meanings:

74 1. Vehicular traffic facing a steady CIRCULAR RED signal indication, unless entering
75 the intersection to make another movement permitted by another signal indication,
76 shall stop at a clearly marked stop line; but if there is no stop line, traffic shall stop
77 before entering the crosswalk on the near side of the intersection; or if there is no
78 crosswalk, then before entering the intersection; and shall remain stopped until a
79 signal indication to proceed is displayed, or as provided below.

80 Except when a traffic control device is in place prohibiting a turn on red ~~or a~~
81 ~~steady RED ARROW signal indication is displayed~~, vehicular traffic facing a steady
82 CIRCULAR RED signal indication is permitted to enter the intersection to turn
83 right, or to turn left ~~from a one-way street~~ into a one-way street, after stopping. The
84 right to proceed with the turn shall be subject to the rules applicable after making a
85 stop at a STOP sign.

86 2. Vehicular traffic facing a steady RED ARROW signal indication shall not enter the
87 intersection to make the movement indicated by the arrow and, unless entering the
88 intersection to make another movement permitted by another signal indication, shall
89 stop at a clearly marked stop line; but if there is no stop line, before entering the
90 crosswalk on the near side of the intersection; or if there is no crosswalk, then before
91 entering the intersection; and shall remain stopped until a signal indication or other
92 traffic control device permitting the movement indicated by such RED ARROW is
93 displayed or as provided below.

94 **When ~~Except when~~ a traffic control device is in place ~~permitting~~ prohibiting a**
95 **turn on red ~~a steady RED ARROW signal indication~~, vehicular traffic facing a**
96 **steady RED ARROW signal indication is permitted to enter the intersection to make**
97 **the movement indicated by the arrow signal indication, after stopping. The right to**
98 **proceed with the turn shall be limited to the direction indicated by the arrow and**
99 **shall be subject to the rules applicable after making a stop at a STOP sign.**

- 100 **3. Unless otherwise directed by a pedestrian signal indication or other traffic control**
101 **device, pedestrians facing a steady CIRCULAR RED or steady RED ARROW signal**
102 **indication shall not enter the roadway.**

DRAFT



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 4D.02 – Provisions for Pedestrians	Last Revised January 03, 2025	Proposal No. 11402
Supplement Team 4-Signals	Status FHWA Review – Round 1	Type New

Summary (2-3 sentences)

Conflict with Oregon law. ORS 810.080 requires the use of a sign when closing a crosswalk.

This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.

The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD ([23 CFR 655.603\(b\)\(1\)](#)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:

- Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.
- Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.
- Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”
- Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.

1 Problem

2 Conflict with Oregon law.

3 Discussion

4 ORS 810.080(1)(b) requires the use of a sign when closing a crosswalk. This proposes to change the
5 MUTCD language from a “should” to a “shall.” Direct carry over from the 2009 MUTCD and Oregon
6 Supplement.

810.080 Pedestrian traffic.

- (1) Road authorities may regulate the movement of pedestrians upon highways within their jurisdictions by doing any of the following:
 - (a) Establishing marked crosswalks and designating them by appropriate marking.
 - (b) Closing a marked or unmarked crosswalk and prohibiting pedestrians from crossing a roadway where a crosswalk has been closed by placing and maintaining signs giving notice of closure.
 - (c) Prohibiting pedestrians from crossing a highway at any place other than within a marked or unmarked crosswalk.
- (2) This section neither grants authority to nor limits the authority of the Department of Transportation.
[1983 c.338 §152]

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 4D. DESIGN FEATURES OF TRAFFIC CONTROL SIGNALS

Section 4D.02 Provisions for Pedestrians

Support:

Chapter 4I contains additional information regarding pedestrian control features, Chapter 4J contains additional information regarding pedestrian hybrid beacons, and Chapter 4K contains additional information regarding accessible pedestrian signals and detectors.

Standard:

- Pedestrian signal heads shall be used in conjunction with vehicular traffic control signals under any of the following conditions, unless the pedestrian crossing is prohibited:**
- A. If the basis for traffic signal installation was justified by an engineering study and meeting either Warrant 4, Pedestrian Volume or Warrant 5, School Crossing (see Chapter 4C);**
 - B. If an exclusive pedestrian signal phase or a leading pedestrian interval (LPI) is provided with all conflicting vehicular movements being stopped;**
 - C. At an established signalized school crossing; or**
 - D. Where there are existing pedestrian accommodations and engineering judgment determines that multi-phase signal indications (such as split-phase timing) would tend to confuse or cause conflicts with pedestrians using a crosswalk guided only by vehicular signal indications.**

Guidance:

Pedestrian signal heads should be installed for each marked crosswalk at a location controlled by a traffic control signal.

Where pedestrian movements regularly occur, pedestrians should be provided with sufficient time to cross the roadway by adjusting the traffic control signal operation and timing to provide sufficient crossing time every cycle or by providing pedestrian detectors.

Standard:

Where certain pedestrian movements are prohibited at a traffic control signal location, a sign shall be used ~~No Pedestrian Crossing (R9-3) sign (see Section 2B.57) should be used if it is impracticable to provide a barrier or other physical feature to physically discourage the pedestrian movements.~~

Guidance:

A barrier or other physical feature to physically discourage the pedestrian movements should be provided when a crosswalk is closed at a traffic control signal location.

40 [Support:](#)

41 [05b ORS 810.080 details the requirements for regulating pedestrian traffic on highways in Oregon.](#)

42 Support:

43 06 Accessible pedestrian signals (see Chapter 4K) that provide information in non-visual formats (such as
44 audible tones and/or speech messages, and vibrating surfaces) enhance safety and accessibility at signalized
45 crossings for pedestrians with vision disabilities.

46 Option:

47 07 Pedestrian signal heads may be used under other conditions based on engineering judgment.

DRAFT



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 4F.19 – Preemption Control of Traffic Control Signals	Last Revised January 03, 2025	Proposal No. 11403
Supplement Team 4-Signals	Status OTCDC Review – Round 2	Type Carryover
Summary (2-3 sentences) Conflict with Oregon law. OAR 734-020-0320(5)(e) prohibits the termination of an active pedestrian or vehicular clearance interval by emergency preemption or bus priority.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Conflict with Oregon law.

3 Discussion

4 OAR 734-020-0320(5)(e) prohibits the termination of an active pedestrian or vehicular clearance interval
5 by emergency preemption or bus priority. This proposes to remove the option to do so in Section 4F.19.

6 This is a direct carry over from the 2009 MUTCD and Oregon Supplement. See clip of OAR below:

OAR 734-020-0320 – Standards for Installation and Operation of Emergency Preemption and Bus Priority Systems

[Sections (1) through (4) not shown.]

- (5) Operating requirements for signal preemption devices and traffic control signal operating devices are as follows:
- (a) All signal preemption devices and traffic control signal operating devices shall be tested by the Oregon Department of Transportation and approved for use;
 - (b) Where multiple users of traffic control signal operating devices are authorized, the signal preemption device shall recognize and respond to the priority of each user as established by OAR 734-020-0330;
 - (c) Actuation of a bus priority system is available only if the system has not been preempted by an emergency vehicle call. Bus priority operation will be immediately canceled when an emergency preemption call is received;
 - (d) A traffic control signal operating device shall not continue to control the traffic control signal once the vehicle has entered the intersection or if a vehicle remains stationary for more than two minutes; and
 - (e) Neither emergency preemption nor bus priority shall terminate an active pedestrian or vehicular clearance interval.**
 - (f) Entities operating emergency vehicles will provide training for all drivers in the operation and limitations of emergency preemption systems.
 - (g) Lights and sirens on emergency vehicles must be activated when the traffic control signal operating device is activated.
 - (h) Traffic control signal operating devices shall be deactivated when the emergency vehicle's transmission is set in park or the parking brake is engaged.

7 Proposed Supplement Content

8 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
9 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

10 CHAPTER 4F. STEADY (STOP-AND-GO) OPERATION OF TRAFFIC CONTROL SIGNALS

11 Section 4F.19 Preemption Control of Traffic Control Signals

12 Support:

13 01 Preemption control (see definition in Section 1C.02) is typically given to trains, boats, emergency
14 vehicles, and light rail transit.

15 02 Examples of preemption control include the following:

16 A. The prompt displaying of green signal indications at signalized locations ahead of fire vehicles, law
17 enforcement vehicles, ambulances, and other official emergency vehicles;

- 18 B. A special sequence of signal phases and timing to expedite and/or provide additional clearance time
19 for vehicles to clear the tracks prior to the arrival of rail traffic; and
20 C. A special sequence of signal phases to display a steady red indication to prohibit turning
21 movements toward the tracks during the approach or passage of rail traffic.

22 **Standard:**

- 23 03 **During the transition into preemption control, ~~the:~~**
24 **A. The yellow change interval, and any red clearance interval that follows, shall not be shortened**
25 **or omitted.**
26 **B. Any pedestrian change interval shall not be shortened or omitted unless the shortening or**
27 **omission results from a railroad preemption or drawbridge preemption as documented in a**
28 **highway-rail or highway-LRT grade Crossing Order or drawbridge preemption.**

29 Option:

- 30 04 During the transition into preemption control, any pedestrian walk interval may be shortened or
31 omitted.
32 ~~A. Any pedestrian walk interval and/or pedestrian change interval may be shortened or omitted.~~
33 ~~B. The red clearance interval, if any, may be omitted so that the return to the previous green signal~~
34 ~~indication follows a steady yellow signal indication in the same signal face.~~

35 Support:

- 36 04a OAR 734-020-0320(5)(e) prohibits the termination of an active pedestrian or vehicular clearance
37 interval by emergency preemption or bus priority.

38 **Standard:**

- 39 05 **During preemption control and during the transition out of preemption control:**
40 **A. Any yellow change interval, and any red clearance interval that follows, shall not be**
41 **shortened or omitted.**
42 **B. A signal indication sequence from a steady yellow signal indication to a green signal**
43 **indication shall not be permitted.**

44 Option:

- 45 06 A distinctive indication may be provided at the intersection to inform law enforcement personnel who
46 are escorting traffic (such as a parade or funeral procession) that the traffic control signal has changed to a
47 red indication not because of normal cycling, but because it has been preempted by rail traffic approaching
48 an adjacent grade crossing or by boat traffic approaching an adjacent movable bridge.
49 07 A distinctive indication may be provided at the intersection to show that an emergency vehicle has been
50 given control of the traffic control signal (see Section 11-106 of the “Uniform Vehicle Code”). In order to
51 assist in the understanding of the control of the traffic control signal, a common distinctive indication may
52 be used where drivers from different agencies travel through the same intersection when responding to
53 emergencies.

54 *Guidance:*

55 08 *Except for traffic control signals interconnected with light rail transit systems, traffic control signals*
56 *with railroad preemption or coordinated with flashing-light signal systems should be provided with a back-*
57 *up power supply.*

58 09 *If a traffic control signal or hybrid beacon is installed near or within a grade crossing or if a grade*
59 *crossing with active traffic control devices is within or near a signalized highway intersection, Chapter 8D*
60 *should be consulted.*

61 *Support:*

62 10 Section 8D.09 contains additional information regarding preemption for grade crossings. Section 8D.10
63 contains information regarding prohibiting movements toward the grade crossing during preemption.
64 Sections 8D.11 and 8D.12 contain additional information regarding pre-signals and queue cutter signals,
65 respectively, for grade crossings.



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 4I.06 – Pedestrian Intervals and Signal Phases	Last Revised January 03, 2025	Proposal No. 11404
Supplement Team 4-Signals	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) This proposes adding guidance to NOT show WALK concurrently with conflicting Flashing Yellow Arrow controlled turn movements. This also proposes to only use the longer walk times for leading pedestrian intervals if audible pedestrian signals are not used. The guidance statement in 4I.06 Paragraph 24 recommends longer walk times with leading pedestrian intervals. This guidance will cause many agencies to avoid using leading pedestrian intervals because the longer walk times will increase cycle lengths and overall pedestrian delay.		
This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005. The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement: <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Section 4I.06 Paragraph 02 defines the vehicular movements that are required to display a steady red
3 indication while a pedestrian signal head is displaying a steady WALK or a flashing DONT WALK
4 indication. The standard requires that “any conflicting vehicular movement that is approaching the
5 intersection or midblock location perpendicular or nearly perpendicular to the crosswalk” shall display
6 a steady red indication. However, it does not prohibit flashing yellow indications for turning
7 movements. The conflict arises when a flashing yellow arrow permits left turns while the pedestrian
8 signal indicates that pedestrians have the right of way to cross the street. This scenario requires both
9 drivers and pedestrians to be cautious and aware of each other.

10 The guidance statement in 4I.06 Paragraph 24 also recommends much longer walk times with leading
11 pedestrian intervals. This guidance will cause many agencies to avoid using leading pedestrian
12 intervals because the longer walk times will increase cycle lengths and overall pedestrian delay.

13 Discussion

14 Conflicting Flashing Yellow Arrow Movements

15 Pedestrians rely on traffic signals to know when it's safe to cross the street. If a flashing yellow arrow is
16 active during a pedestrian walk interval, it can confuse pedestrians, leading them to believe that
17 vehicles may be turning left while they have the right of way. Disabling the flashing yellow arrow
18 removes this confusion and ensures that pedestrians have a clear understanding of when it's safe to
19 cross.

20 Pedestrians should be given priority at intersections during WALK intervals. By disabling the flashing
21 yellow arrow, it reinforces this priority and emphasizes the importance of yielding to pedestrians. This
22 can contribute to a safer and more pedestrian-friendly environment.

23 Leading Pedestrian Interval

24 The guidance statement in 4I.06 Paragraph 24 recommends longer walk times where leading pedestrian
25 intervals are used. The MUTCD seems to address the situations where pedestrians with low or no
26 vision may only begin their crossing at the onset of the vehicular movement and not be given enough
27 time to cross if they do not have other audible cues. However, if accessible pedestrian signals are used
28 to provide the cues to pedestrians with low or no vision, this added 7 seconds of walk time after the
29 leading pedestrian interval would not be necessary.

30 This proposes two modifications to the guidance statement in Paragraph 24:

- 31 1. Add a caveat that this guidance applies where leading pedestrian intervals are used without
32 accessible pedestrian signals.
- 33 2. Add the exception provided in Paragraph 12 of this section to the 7-second minimum walk
34 interval. This is to be consistent with the guidance given in previous sections to allow flexibility
35 based on engineering judgement.

36 Proposed Supplement Content

37 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
38 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 4I. PEDESTRIAN CONTROL FEATURES

Section 4I.06 Pedestrian Intervals and Signal Phases

Standard:

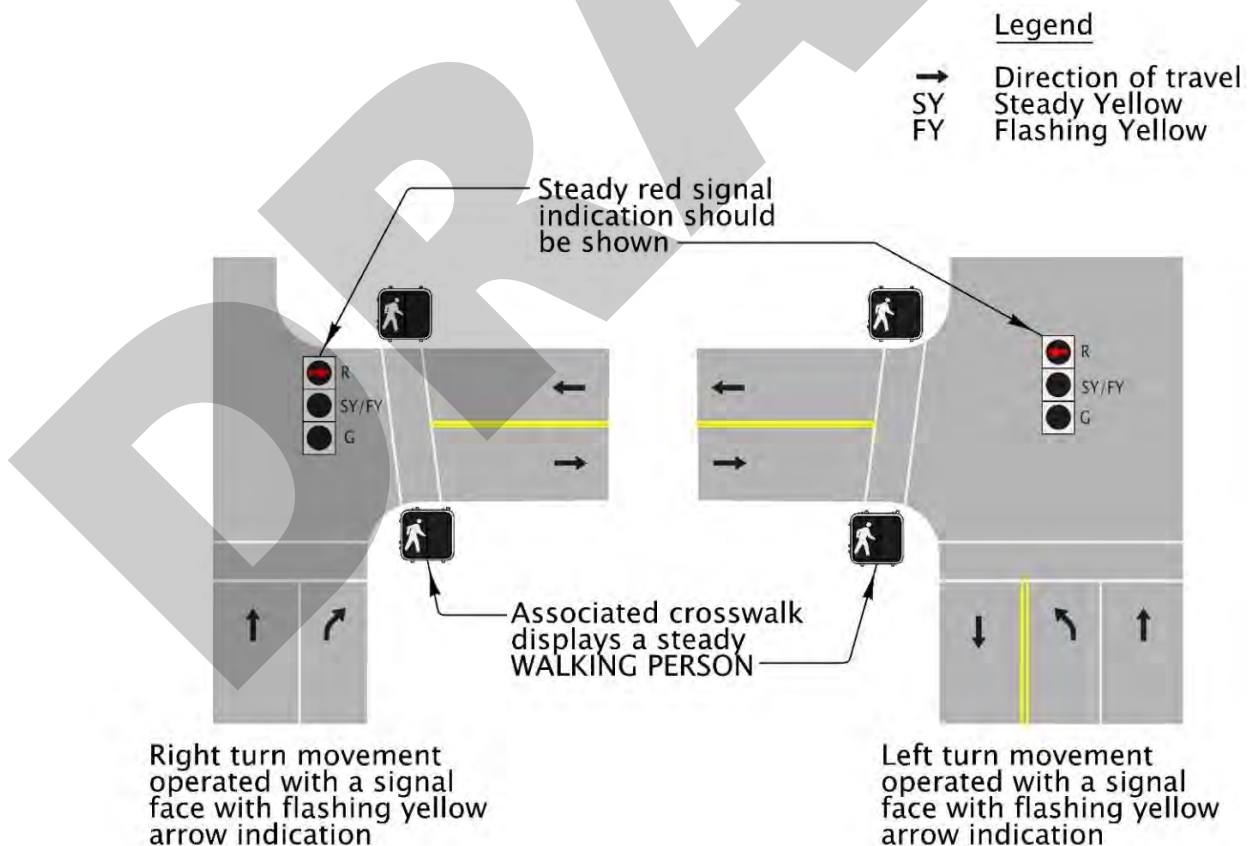
01 At intersections equipped with pedestrian signal heads, the pedestrian signal indications shall be displayed except when the vehicular traffic control signal is being operated in the flashing mode. At those times, the pedestrian signal indications shall not be displayed.

02 Except as provided in Paragraph 3 of Section 4J.03, when the pedestrian signal heads associated with a crosswalk are displaying either a steady WALKING PERSON (symbolizing WALK) or a flashing UPRAISED HAND (symbolizing DONT WALK) signal indication, a steady red signal indication shall be shown to any conflicting vehicular movement that is approaching the intersection or midblock location perpendicular or nearly perpendicular to the crosswalk.

Guidance:

02a When the pedestrian signal heads with an associated crosswalk are displaying a steady WALKING PERSON (symbolizing WALK) signal indication, a steady red signal indication should be shown to any left turn and right turn movement that is operated with a signal face with Flashing Yellow Arrow indication. See Figure 4I-5(OR).

Figure 4I-5(OR). Pedestrian WALK Interval and Flashing Yellow Arrow Signal Face



57 **Standard:**

58 03 **When pedestrian signal heads are used, a WALKING PERSON (symbolizing WALK) signal**
59 **indication shall be displayed only when pedestrians are permitted to leave the curb or shoulder.**

60 04 **A pedestrian change interval consisting of a flashing UPRAISED HAND (symbolizing DONT**
61 **WALK) signal indication shall begin immediately following the WALKING PERSON (symbolizing**
62 **WALK) signal indication. Following the pedestrian change interval, a buffer interval consisting of a**
63 **steady UPRAISED HAND (symbolizing DONT WALK) signal indication shall be displayed for at**
64 **least 2 seconds prior to the release of any conflicting vehicular movement. The sum of the time of the**
65 **pedestrian change interval and the buffer interval shall not be less than the calculated pedestrian**
66 **clearance time (see Paragraphs 7 through 16 of this Section). The buffer interval shall not begin later**
67 **than the beginning of the red clearance interval, if used.**

68 Option:

69 05 During the yellow change interval, the UPRAISED HAND (symbolizing DON'T WALK) signal
70 indication may be displayed as either a flashing indication, a steady indication, or a flashing indication for
71 an initial portion of the yellow change interval and a steady indication for the remainder of the interval.

72 Support:

73 06 Figure 4I-4 illustrates the pedestrian intervals and their possible relationships with associated vehicular
74 signal phase intervals.

75 *Guidance:*

76 07 *Except as provided in Paragraph 8 of this Section, the pedestrian clearance time should be sufficient to*
77 *allow a pedestrian crossing in the crosswalk who left the curb or edge of pavement at the end of the*
78 *WALKING PERSON (symbolizing WALK) signal indication to travel at a walking speed of 3.5 feet per*
79 *second to at least the far side of the traveled way or to a median of sufficient width for pedestrians to wait.*

80 Option:

81 08 A walking speed of up to 4 feet per second may be used to evaluate the sufficiency of the pedestrian
82 clearance time at locations where an extended push button press function has been installed to provide
83 slower pedestrians an opportunity to request and receive a longer pedestrian clearance time. Passive
84 pedestrian detection may also be used to automatically adjust the pedestrian clearance time based on the
85 pedestrian's actual walking speed or actual clearance of the crosswalk.

86 09 The additional time provided by an extended push button press to satisfy pedestrian clearance time
87 needs may be added to either the walk interval or the pedestrian change interval.

88 *Guidance:*

89 10 *Where pedestrians who walk slower than 3.5 feet per second, or pedestrians who use wheelchairs,*
90 *routinely use the crosswalk, a walking speed of less than 3.5 feet per second should be considered in*
91 *determining the pedestrian clearance time.*

92 11 *Except as provided in Paragraph 12 of this Section, the walk interval should be at least 7 seconds in*
93 *length so that pedestrians will have adequate opportunity to leave the curb or shoulder before the*
94 *pedestrian clearance time begins.*

95 Option:

96 12 If pedestrian volumes and characteristics do not require a 7-second walk interval, walk intervals as
97 short as 4 seconds may be used.

98 Support:

99 13 The walk interval is intended for pedestrians to start their crossing. The pedestrian clearance time is
100 intended to allow pedestrians who started crossing during the walk interval to complete their crossing.
101 Longer walk intervals are often used when the duration of the vehicular green phase associated with the
102 pedestrian crossing is long enough to allow it.

103 *Guidance:*

104 14 *The total of the walk interval and pedestrian clearance time should be sufficient to allow a pedestrian*
105 *crossing in the crosswalk who left the pedestrian detector (or, if no pedestrian detector is present, a location*
106 *6 feet behind the face of the curb or 6 feet behind the edge of the pavement) at the beginning of the*
107 *WALKING PERSON (symbolizing WALK) signal indication to travel at a walking speed of 3 feet per second*
108 *to the far side of the traveled way being crossed or to the median if a two-stage pedestrian crossing*
109 *sequence is used. Any additional time that is required to satisfy the conditions of this paragraph should be*
110 *added to the walk interval.*

111 Option:

112 15 On a street with a median of sufficient width for pedestrians to wait, a pedestrian clearance time that
113 allows the pedestrian to cross only from the curb or shoulder to the median may be provided.

114 **Standard:**

115 16 **Where the pedestrian clearance time is sufficient only for crossing from the curb or shoulder to a**
116 **median of sufficient width for pedestrians to wait, median-mounted pedestrian signals, with**
117 **pedestrian detectors (see Sections 4I.05 and 4K.01) if actuated operation is used, shall be provided**
118 **and signing such as the R10-3d sign (see Section 2B.58) shall be provided to notify pedestrians to**
119 **cross only to the median to await the next WALKING PERSON (symbolizing WALK) signal**
120 **indication.**

121 Support:

122 17 Accessible pedestrian signals (see Chapter 4K) where median-mounted pedestrian signals and detectors
123 are used provide information in non-visual formats (such as audible tones and/or speech messages, and
124 vibrating surfaces) so that a pedestrian with vision disabilities can know when to resume crossing the street
125 after crossing to the median.

126 Option:

127 18 During the transition into preemption, the walk interval and the pedestrian change interval may be
128 shortened or omitted as described in Section 4F.19.

129 19 At intersections with high pedestrian volumes and high conflicting turning vehicle volumes, a brief
130 leading pedestrian interval, during which an advance WALKING PERSON (symbolizing WALK)
131 indication is displayed for the crosswalk while red indications continue to be displayed to parallel through
132 and/or turning traffic, may be used to reduce conflicts between pedestrians and turning vehicles.

133 Support:

134 20 Accessible pedestrian signals (see Chapter 4K) where leading pedestrian intervals are used provide
135 information in non-visual formats (such as audible tones and/or speech messages, and vibrating surfaces) so
136 that a pedestrian with vision disabilities can know when to cross the street in the absence of the audible cues
137 normally provided when the onset of the vehicular and pedestrian movements coincide.

138 21 If a leading pedestrian interval is used without accessible features, pedestrians with vision disabilities
139 might begin crossing at the onset of the vehicular movement when vehicle operators are not expecting them
140 to begin crossing.

141 *Guidance:*

142 22 *If a leading pedestrian interval is used, it should be at least 3 seconds in duration and should be timed*
143 *to allow pedestrians to cross at least one lane of traffic or, in the case of a large corner radius, to travel far*
144 *enough for pedestrians to establish their position ahead of the turning traffic before the turning traffic is*
145 *released.*

146 23 *If a leading pedestrian interval is used, consideration should be given to prohibiting turns across the*
147 *crosswalk during the leading pedestrian interval.*

148 24 *Except as provided in Paragraph 12 of this section, at ~~A~~ locations where a leading pedestrian interval*
149 *is used without accessible pedestrian signals, the minimum time for the WALKING PERSON (symbolizing*
150 *WALK) indication should be the time provided for the leading pedestrian interval plus 7 seconds.*

151 Support:

152 25 At intersections with pedestrian volumes that are so high that drivers have difficulty finding an
153 opportunity to turn across the crosswalk, the duration of the green interval for a parallel concurrent
154 vehicular movement is sometimes intentionally set to extend beyond the pedestrian clearance time to
155 provide turning drivers additional green time to make their turns while the pedestrian signal head is
156 displaying a steady UPRAISED HAND (symbolizing DONT WALK) signal indication after pedestrians
157 have had time to complete their crossings.



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 4J.02 – Design of Pedestrian Hybrid Beacons, 4J.03 – Operation of Pedestrian Hybrid Beacons	Last Revised January 03, 2025	Proposal No. 11405
Supplement Team 4-Signals	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) This proposes allowing a different PHB operation and coordination.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Recommending an operational strategy should be left to practitioners to decide how to achieve agency
3 goals. Requiring a PHB to show alternating red indications during the pedestrian change interval may
4 lead to safety issues for people walking or biking who enter the crossing during the change interval.

5 Discussion

6 Including guidance on the operational modes of PHBs may lead to practitioners following the
7 recommendations without considering all the implications of the mode. Observations of pedestrians
8 using PHBs in Portland show that when PHBs are coordinated, some users actuate the PHB but cross
9 before the walk signal is served due to sufficient gaps. Running these signals free helps minimize this
10 issue and leads to better compliance by users (both drivers and people walking).

11 Adding an option to display a solid red indication during the pedestrian change interval provides
12 flexibility in how agencies operate PHBs to support their safety goals. Regardless of state law, in some
13 areas people commonly begin their crossing after the onset of the pedestrian change interval. Allowing
14 the vehicle signal to display a solid red indication during the pedestrian change interval provides an
15 added safety buffer for vulnerable users in the crossing during the interval.

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 4J. PEDESTRIAN HYBRID BEACONS

Section 4J.02 Design of Pedestrian Hybrid Beacons

Standard:

01 Except as otherwise provided in this Section, a pedestrian hybrid beacon shall meet the provisions of Chapters 4D through 4G, 4I, and 4J.

02 A pedestrian hybrid beacon face shall consist of three signal sections, with a CIRCULAR YELLOW signal indication centered below two horizontally-aligned CIRCULAR RED signal indications (see Figure 4J-3).

03 When an engineering study finds that installation of a pedestrian hybrid beacon is justified, then:

- A. At least two pedestrian hybrid beacon faces shall be installed for each approach of the major street;
- B. A stop line shall be installed for each approach to the crosswalk;
- C. A pedestrian signal head complying with the provisions set forth in Chapter 4I shall be installed at each end of the marked crosswalk;
- D. The pedestrian hybrid beacon shall be pedestrian actuated; and
- E. If the pedestrian hybrid beacon is installed at or immediately adjacent to an intersection with a minor street, a STOP sign shall be installed for each minor-street approach.

Guidance:

04 When an engineering study finds that installation of a pedestrian hybrid beacon is justified, then:

- A. Parking and other sight obstructions should be prohibited for at least 100 feet in advance of and at least 20 feet beyond the marked crosswalk, or site accommodations should be made through curb extensions or other techniques to provide adequate sight distance; and
- B. If installed within a signal system, engineering judgement should be used to determine if the pedestrian hybrid beacon should be coordinated.

Support:

04a Section 4B.02 discusses some of the disadvantages of a poorly operated traffic signal which also apply to pedestrian hybrid beacons.

05 On approaches having posted or statutory speed limits or 85th-percentile speeds in excess of 35 mph and on approaches having traffic or operating conditions that would tend to obscure visibility of roadside hybrid beacon face locations, both of the minimum of two pedestrian hybrid beacon faces should be installed over the roadway.

50 06 *On multi-lane approaches having posted or statutory speed limits or 85th-percentile speeds of 35 mph*
51 *or less, either a pedestrian hybrid beacon face should be installed on each side of the approach (if a median*
52 *of sufficient width exists) or at least one of the pedestrian hybrid beacon faces should be installed over the*
53 *roadway.*

54 07 *A pedestrian hybrid beacon should comply with the signal face location provisions described in*
55 *Sections 4D.05 through 4D.10.*

56 Option:

57 08 A CROSSWALK—STOP ON RED (symbolic circular red) (R10-23) or a STOP ON STEADY RED—
58 YIELD ON FLASHING RED AFTER STOP (R10-23a) sign (see Section 2B.59) may be installed facing
59 each major street approach.

60 09 A W11-2 (Pedestrian), S1-1 (School), or W11-15 (Trail) crossing warning sign with an AHEAD (W16-
61 9P) supplemental plaque may be placed in advance of a pedestrian hybrid beacon. A Warning Beacon may
62 be installed to supplement the W11-2, S1-1, or W11-15 sign.

63 10 Backplates (see Section 4D.06) may be used with pedestrian hybrid beacons.

64 Support:

65 11 Accessible pedestrian signals (see Chapter 4K) where a pedestrian hybrid beacon is used provide
66 information in non-visual formats (such as audible tones and/or speech messages, and vibrating surfaces) so
67 that a pedestrian with vision disabilities can know when to cross the street.

68 *Guidance:*

69 12 *If a Warning Beacon supplements a W11-2 sign in advance of a pedestrian hybrid beacon, it should be*
70 *programmed to flash only when the pedestrian hybrid beacon is not in the dark mode.*

71 **Standard:**

72 13 **If a Warning Beacon is installed to supplement the W11-2 sign, the design and location of the**
73 **Warning Beacon shall comply with the provisions of Sections 4S.01 and 4S.03.**

74 14 **Bicycle signal faces (see Chapter 4H) shall not be used at a pedestrian hybrid beacon.**

75 **Section 4J.03 Operation of Pedestrian Hybrid Beacons**

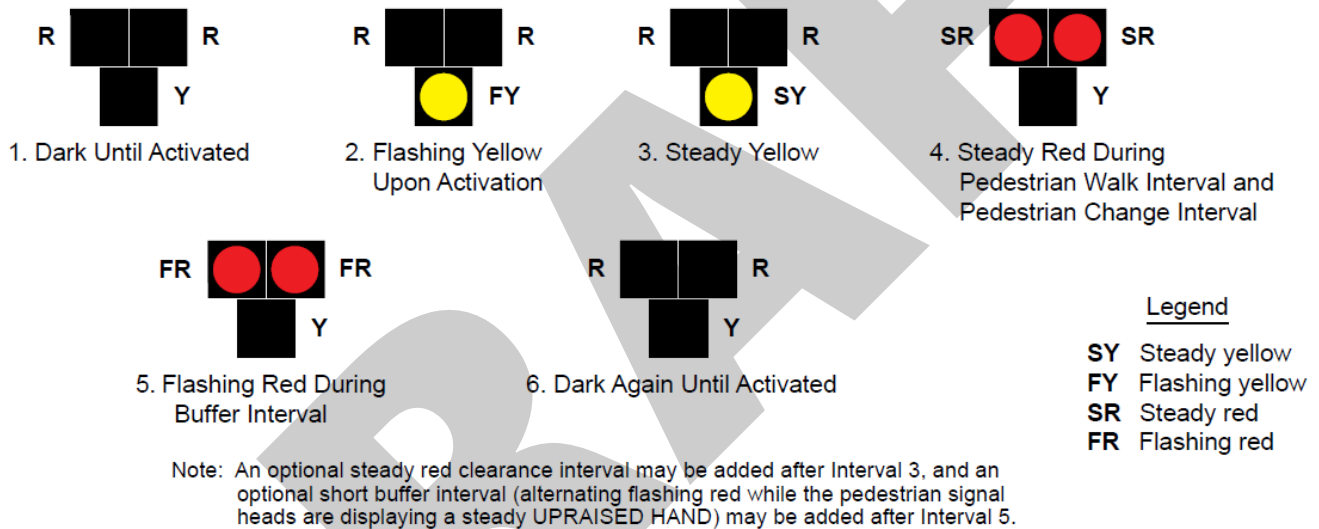
76 **Standard:**

77 01 **Pedestrian hybrid beacon indications shall be dark (not illuminated) during periods between**
78 **actuations.**

79 02 **Following an actuation by a pedestrian, a pedestrian hybrid beacon face shall display one of the**
80 **following two sequences:**

- 81 **A. ~~A~~ flashing CIRCULAR yellow signal indication, followed by a steady CIRCULAR yellow**
82 **signal indication, followed by both steady CIRCULAR RED signal indications during the**
83 **pedestrian walk interval, followed by alternating flashing CIRCULAR RED signal**
84 **indications during the pedestrian change interval (see Figure 4J-3). Upon termination of the**
85 **pedestrian change interval, the pedestrian hybrid beacon faces shall revert to a dark (not**
86 **illuminated) condition.**
- 87 **B. A flashing CIRCULAR yellow signal indication, followed by a steady CIRCULAR yellow**
88 **signal indication, followed by both steady CIRCULAR RED signal indications during the**
89 **pedestrian walk and pedestrian change intervals, followed by simultaneous flashing**
90 **CIRCULAR RED signal indications during the buffer interval (see Figure 4J-3(OR)). Upon**
91 **termination of the buffer interval, the pedestrian hybrid beacon faces shall revert to a dark**
92 **(not illuminated) condition.**

93 **Figure 4J-3(OR). Alternate Sequence for a Pedestrian Hybrid Beacon**



94

95 03 **Except as provided in Paragraph 4 of this Section, the pedestrian signal heads shall continue to**
96 **display a steady UPRAISED HAND (symbolizing DONT WALK) signal indication when the**
97 **pedestrian hybrid beacon faces are either dark or displaying flashing or steady CIRCULAR yellow**
98 **signal indications. The pedestrian signal heads shall display a WALKING PERSON (symbolizing**
99 **WALK) signal indication when the pedestrian hybrid beacon faces are displaying steady CIRCULAR**
100 **RED signal indications. The pedestrian signal heads shall display a flashing UPRAISED HAND**
101 **(symbolizing DONT WALK) signal indication when the pedestrian hybrid beacon faces are**
102 **displaying alternating flashing CIRCULAR RED signal indications. Upon termination of the**
103 **pedestrian change interval, the pedestrian signal heads shall revert to a steady UPRAISED HAND**
104 **(symbolizing DONT WALK) signal indication.**

105 Option:

106 04 Where the pedestrian hybrid beacon is installed adjacent to a roundabout to facilitate crossings by
107 pedestrians with vision disabilities and an engineering study determines that pedestrians without vision
108 disabilities can be allowed to cross the roadway without actuating the pedestrian hybrid beacon, the
109 pedestrian signal heads may be dark (not illuminated) when the pedestrian hybrid beacon faces are dark.

110 *Guidance:*

111 05 *The duration of the flashing yellow interval should be determined by engineering judgment.*

112 06 *The duration of the flashing yellow interval should not vary on a cycle-by-cycle basis.*

113 07 *If the pedestrian hybrid beacon is coordinated as a part of a signal system, it should remain in the dark*
114 *condition after a pedestrian actuation has been received until the point in the background cycle when the*
115 *predetermined duration of the flashing yellow interval needs to be initiated in order to achieve the*
116 *appropriate coordinated offset.*

117 Option:

118 08 If a minimum dark time between activations of the pedestrian hybrid beacon has been set on the
119 controller, the pedestrian hybrid beacon may remain in the dark condition after a pedestrian actuation has
120 been received until the minimum dark time has been provided.

121 Support:

122 09 The minimum dark time is a preprogrammed time set in the controller that provides time between the
123 pedestrian actuation and beginning of the flashing yellow interval. At locations in coordinated signal
124 systems, the dark time can be variable based on when the pedestrian actuation occurs in the coordinated
125 signal timing sequence.

126 **Standard:**

127 10 **The duration of the steady yellow change interval shall be determined using engineering practices**
128 **in accordance with the provisions in Section 4F.17.**

129 *Guidance:*

130 11 *A steady yellow change interval should have a minimum duration of 3 seconds and a maximum*
131 *duration of 6 seconds (see Section 4F.17). The longer intervals should be reserved for use on approaches*
132 *with higher speeds.*

133 Option:

134 12 A steady red clearance interval may be used after the steady yellow change interval.

135 13 The alternating flashing CIRCULAR RED signal indications may continue to flash for a short period
136 after the pedestrian change interval has terminated to provide a buffer interval for pedestrians.

137 *Guidance:*

138 14 *A pedestrian hybrid beacon that is located 200 feet or less from an active grade crossing should be*
139 *preempted in accordance with the applicable provisions in Sections 4F.19 and 8D.09.*

140 **Standard:**

141 15 **If a pedestrian hybrid beacon is placed into a flashing mode by a conflict monitor (malfunction**
142 **management unit) or by a manual switch, the pedestrian hybrid beacon faces shall display flashing**
143 **CIRCULAR YELLOW signal indications to each approach of the major street and the pedestrian**
144 **signal heads shall revert to a dark (not illuminated) condition.**

DRAFT



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 4K.01 General (APS)	Last Revised January 03, 2025	Proposal No. 11406
Supplement Team 4-Signals	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) Standardizing APS Speech Messages at Signalized Intersections to provide greater accessibility and effective communication for pedestrians.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Providing effective communication at signalized intersections is a requirement of the ADA.

3 Discussion

4 With additional information, the pedestrian should be able to navigate independently with more
5 confidence and accuracy through an intersection to reach a desired destination. Pedestrians with low or
6 no vision may be unable to read or find a sign to find which street they are crossing. Complicated
7 intersections may not have an obvious or direct route to navigate through or other audible cues to
8 figure out their location. For example, skewed intersections, intersections with multiple legs to cross, or
9 channelized right turn lanes are more difficult for this population to navigate. Inconsistent application
10 makes one intersection or certain communities more accessible than others.

11 This proposes improving accessibility through the supplement by including speech message
12 requirements in prescribed scenarios. Providing a uniform speech message at all signalized locations
13 will improve access and communication for people with disabilities, in particular complicated
14 intersections that may be difficult to figure out street crossing navigation paths/patterns.

- 15 PROWAG Section R308.3 gives specifications for audible pedestrian signals. While USDOT and USDOJ
16 have not adopted PROWAG yet, incorporating these specifications will help APS messages be
17 consistent in Oregon and prepare Oregon's agencies for PROWAG compliance for APS.

Public Right-of-Way Accessibility Guidelines (PROWAG)

R308.3 Audible Walk Indications

Audible walk indications shall comply with R308.3.

R308.3.1 Percussive Tone

Where an accessible pedestrian signal is provided at a single crossing or where two accessible pedestrian signals are 10 feet or greater from each other at a corner, the audible walk indication shall be a percussive tone and repeat eight to ten ticks per second with multiple frequencies and a dominant component at 880 Hz.

R308.3.2 Speech Walk Message

In alterations, where it is technically infeasible to provide 10 feet separation between pedestrian push buttons on the same corner, the audible walk indication for each signal shall be a speech walk message that complies with R308.3.2.

R308.3.2.1 Speech Information Message when Walk Interval is Not Timing

Where speech push button information messages are made available at a pretimed signal or by actuating the accessible pedestrian push button or passive detection device, they shall only be actuated when the walk interval is not timing. They shall begin with the term "Wait," followed by intersection identification information modeled after: "Wait to cross Broadway at Grand." If information on intersection signalization or geometry is also given, it shall follow the intersection identification information.

R308.3.2.2 Speech Walk Message during Pedestrian Phasing Concurrent with Vehicular Phasing

Speech walk messages that are used at intersections having pedestrian phasing that is concurrent with vehicular phasing shall be patterned after the model: "Broadway. Walk sign is on to cross Broadway."

R308.3.2.3 Speech Walk Message during Exclusive Pedestrian Phasing

Speech walk messages that are used at intersections having exclusive pedestrian phasing shall be patterned after the model: "Walk sign is on for all crossings."

R308.3.2.4 Speech Walk Message and Pilot Light

If a pilot light is used at an accessible pedestrian signal location, each actuation shall be accompanied by the speech message, "Wait."

18 Proposed Supplement Content

19 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
20 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

21 CHAPTER 4K. ACCESSIBLE PEDESTRIAN SIGNALS AND DETECTORS

22 Section 4K.01 General

23 Support:

24 01 Accessible pedestrian signals and detectors provide information in non-visual formats (such as audible
25 tones and/or speech messages, and vibrating surfaces). The decision of when to use accessible pedestrian
26 signals is subject to requirements of the Americans with Disabilities Act and Section 504 of the
27 Rehabilitation Act of 1973.

28 02 The primary technique that pedestrians with vision disabilities use to cross streets at signalized
29 locations is to initiate their crossing when they hear the traffic in front of them stop and the traffic alongside
30 them begin to move, which often corresponds to the onset of the green interval. The existing environment is
31 often not sufficient to provide the information that pedestrians with vision disabilities need to cross a
32 roadway at a signalized location.

33 03 The following factors are relevant in determining whether a particular signalized location presents
34 difficulties for pedestrians with vision disabilities to cross the roadway:

- 35 A. Potential demand for accessible pedestrian signals;
- 36 B. A request for accessible pedestrian signals;
- 37 C. Traffic volumes during times when pedestrians might be present, including periods of low traffic
38 volumes or high turn-on-red volumes;
- 39 D. The complexity of the traffic signal phasing (such as split phases, protected turn phases, leading
40 pedestrian intervals, and exclusive pedestrian phases); and
- 41 E. The complexity of the intersection geometry.

42 04 The factors that make crossing at a signalized location difficult for pedestrians with vision disabilities
43 include: increasingly quiet vehicles, turns on red (which mask the beginning of the through phase),
44 continuous turning movements, complex signal operations, circular intersections, and wide streets. In
45 addition, low traffic volumes might make it difficult for pedestrians with vision disabilities to discern signal
46 phase changes.

47 05 State and local organizations providing support services to pedestrians with vision and/or hearing
48 disabilities can provide advice to the traffic engineer on site-specific accessibility decisions. In addition,
49 orientation and mobility specialists or similar staff can provide advice to inform such decisions. The U.S.
50 Access Board (www.access-board.gov) provides technical assistance for making pedestrian signal
51 information accessible to persons with vision disabilities.

52 **Standard:**

53 06 **When used, accessible pedestrian signals shall be used in combination with pedestrian signal**
54 **timing.**

55 07 **The information provided by an accessible pedestrian signal shall indicate which pedestrian**
56 **crossing is served by each device with a speech message identifying the name of the street.**

57 08 **Under steady (stop-and-go) operation, accessible pedestrian signals shall not be limited in**
58 **operation by the time of day or day of week.**

59 *Guidance:*

60 08a Where speech push button information messages are made available at a pretimed signal or by
61 actuating the accessible pedestrian push button or passive detection device, they should only be actuated
62 when the walk interval is not displayed. They should begin with the term “Wait,” followed by intersection
63 identification information modeled after: “Wait to cross Broadway at Grand.” If information on
64 intersection signalization or geometry is also given, it should follow the intersection identification
65 information.

66 08b Speech walk messages that are used at intersections that have a closed crosswalk with no detectable
67 treatment installed at the closed crosswalk should indicate which crosswalk is closed. Closed crosswalk
68 messages should be patterned after the model: “Broadway crosswalk is closed. Wait to cross Main.”

69 08c Speech walk messages that are used at intersections having pedestrian phasing that is concurrent with
70 vehicular phasing should be patterned after the model: “Broadway. Walk sign is on to cross Broadway.”

71 08d Speech walk messages that are used at intersections having exclusive pedestrian phasing should be
72 patterned after the model: “Walk sign is on for all crossings.”

73 *Option:*

74 09 Accessible pedestrian signal detectors may be push buttons or passive detection devices.

75 10 At locations with pretimed traffic control signals or non-actuated approaches, pedestrian push buttons
76 may be used to activate the accessible pedestrian signals.

77 *Support:*

78 11 Accessible pedestrian signals are typically integrated into the pedestrian detector (push button), so the
79 audible tones and/or messages come from the push button housing. They have a push button locator tone
80 and a vibrotactile arrow, and can include audible beaconing and other special features.

81 *Option:*

82 12 The name of the street to be crossed may also be provided in accessible format, such as Braille or raised
83 characters. Tactile maps of crosswalks may also be provided.

84 *Support:*

85 13 Specifications regarding Braille or raised characters can be found in the U.S. Department of Justice
86 2010 ADA Standards for Accessible Design, September 15, 2010, 28 CFR 35 and 36, Americans with
87 Disabilities Act of 1990.

88 **Standard:**

89 14 **At accessible pedestrian signal locations where pressing the pedestrian push button is necessary**
90 **to activate the walk interval, pressing the pedestrian push button shall activate both the walk interval**
91 **and the accessible pedestrian signals.**



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected Part 6 – Temporary Traffic Control	Last Revised January 03, 2025	Proposal No. 11601
Supplement Team 6-TTC	Status OTCDC Review – Round 2	
Summary (2-3 sentences) This proposes keeping the Oregon Temporary Traffic Control Handbook as a separate publication that covers traffic control in work zones of 72 hours or less.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 **Problem**

2 Field crews need a handbook to apply the principles in MUTCD Part 6 for short-duration work zones
3 (72 hours or less).

4 **Discussion**

5 The OTTCH provides a reference for the standards and practices for temporary traffic control work
6 zones in place continuously for three days or less on public roads in Oregon. It is based on the
7 principles in Part 6 of the MUTCD.

8 For work requiring devices in place longer than three days, a more comprehensive Traffic Control Plan
9 (TCP) is needed.

10 Each road authority (City, County, State, or Transit Authority) may have additional or more restrictive
11 requirements and will generally require permits to work within the public right-of-way. The proper
12 road authority should be contacted prior to planning or beginning any work within their jurisdiction.

13 There are safety concerns for workers while setting up and taking down work zones. As a result, the
14 OTTCH is based on the premise, per the MUTCD, that simplified traffic control procedures are
15 warranted for short term activities.

16 **Proposed Supplement Content**

17 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
18 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

19 **OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK**

20 The Oregon Temporary Traffic Control Handbook (OTTCH) is a separate publication from the Oregon
21 Supplement to the MUTCD 11th Edition and covers applications of Part 6 for work zones of 72 hours or
22 less. ODOT and local agencies are free to adopt more restrictive requirements for Part 6 applications in
23 work zones greater than 72 hours as part of their agency's traffic control policy manual and/or
24 specifications.



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 7B.05 – School Speed Limit Signs and Plaques	Last Revised January 03, 2025	Proposal No. 11701
Supplement Team 7-Schools	Status OTCDC Review – Round 2	Type Modification
Summary (2-3 sentences) Section 7B.05 describes the means of posting School Speed Limit signs but does not direct readers to available Oregon-specific resources, references, and laws related to school speed limit zones. Paragraph 05 lacks guidance on where a shorter school speed limit zone may be appropriate in certain contexts, and ORS 811.111 gives specific conditions for the types of school speed limit zones. This proposes to 1) Direct readers to ODOT’s Speed Zone Manual, ODOT’s “A Guide to School Area Safety”, and several pertinent ORS, and 2) Add an option to allow a SCHOOL DAYS plaque or an ALL YEAR plaque on School Speed Limit assemblies.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Section 7B.05 describes the means of posting School Speed Limit signs but does not direct readers to
3 available Oregon-specific resources, references, and laws that are important to understand when setting
4 up a reduced school speed limit.

5 ORS 811.111 limits school speed zones that are 7AM–5PM to days when school is in session, but there is
6 no allowance in 7B.05 Paragraph 7 for the addition of a SCHOOL DAYS plaque to a speed zone sign
7 assembly. Also, Figure 7B-1 and the language of 7B.05 Paragraph 7 limits the use of the ALL YEAR
8 plaque (S4-7P) so that it can only be used with the School warning sign (S1-1) but not with the school
9 speed limit assembly.

Discussion

School Speed Limit Zone Resources

Before selecting a particular set of signs for a reduced school speed limit zone as described in Section 7B.05, readers should be familiar with several Oregon-specific resources, references, and laws. [ODOT's A Guide to School Area Safety](#) describes the various types of school speed zones that are allowed under Oregon Revised Statutes (ORS). The guide also includes information related to Safe Routes to School programs, street and parking design strategies, and general traffic control elements that are important to understand when implementing a reduced school speed limit zone.

The [ODOT Speed Zone Manual](#) also contains guidance for when reduced school speed limit zones are generally recommended, when they are conditionally recommended, and when they are generally discouraged. For example, ORS 811.111 specifies the types of school zones (i.e., 7 AM – 5 PM, When Flashing, When Children are Present) that may be used near schools and at school crosswalks in Oregon, and ORS 811.235 establishes the condition of increasing fines in school zones.

The requirements, constraints, and options established and supported by these references, resources, and laws can play important roles when establishing a reduced school speed limit zone.

School Speed Limit Zones in Oregon Law

Section 7B.05 P7 states that “The static School Speed Limit assembly shall consist of a top plaque (S4-3P) with the legend SCHOOL, a Speed Limit (R2-1) sign, and a bottom plaque (S4-1P, S4-2P, S4-4P, or S4-6P) indicating the specific periods of the day and/or days of the week that the special school speed limit is in effect.

ORS 811.111 limits the 7 am – 5 pm school speed zone to “days when school is in session,” but neither the S4-1P plaque (7AM – 5 PM) nor the S4-6P plaque (MON-FRI) conveys the message that the speed zone is only in effect on school days. An option is desired to allow the use of a “SCHOOL DAYS” plaque when S4-1P is used. The Oregon Sign Policy and Guidelines include a plaque (OS4-8) reading “SCHOOL DAYS | 7 AM – 5 PM” that conveys the needed message.

Figure 7B-1 shows the “ALL YEAR” plaque (S4-7P) as only being used with the S1-1 School Warning sign; there is interest in allowing the “ALL YEAR” plaque (S4-7P) to be used as an added top plaque with the School Speed Limit Assembly. That location for the plaque is expected to help draw attention and to improve driver adherence to the reduced school speed limit.

811.111 Violating a speed limit; penalty.

(1) A person commits the offense of violating a speed limit if the person:

[Subsections (a) through (d) not shown.]

(e) Drives a vehicle in a school zone at a speed greater than 20 miles per hour if the school zone is:

(A) A segment of highway described in ORS 801.462 (1)(a) and:

- (i) The school zone has a flashing light used as a traffic control device and operated as provided under ORS 810.243; or
- (ii) If the school zone does not have a flashing light used as a traffic control device, the person drives in the school zone between 7 a.m. and 5 p.m. on a day when school is in session.

(B) A crosswalk described in ORS 801.462 (1)(b) and:

- (i) A flashing light is used as a traffic control device and operated as provided under ORS 810.243; or
- (ii) Children are present, as described in ORS 811.124.

[Sections (2) through (14) not shown.]

[2003 c.819 §4; 2003 c.819 §4a; 2005 c.573 §1; 2005 c.770 §6; 2007 c.367 §4; 2015 c. 139 §2; 2015 c.283 §5; 2015 c.746 §1; 2016 c.1 §1; 2019 c.515 §2; 2023 c.9 §53]

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 7B. SIGNS

Section 7B.05 School Speed Limit Signs and Plaques

Support:

01a The “Speed Zone Manual” published by ODOT provides guidance on establishing reduced school speed limit zones in Oregon. “A Guide to School Area Safety”, also published by ODOT, provides additional guidance and explanations related to applying school speed zones and other safety treatments near schools in Oregon. ORS 811.111 and ORS 811.235 address school speed zones.

Standard:

01 **A School Speed Limit assembly (see Figure 7B-1) or a School Speed Limit When Flashing (S5-1) sign (see Figure 7B-1) shall be used to indicate the speed limit where a reduced school speed limit zone has been established based upon an engineering study or where a reduced school speed limit is specified for such areas by statute. The School Speed Limit assembly or School Speed Limit When Flashing sign shall be placed at or as near as practicable to the point where the reduced school speed limit zone begins (see Figures 7B-2 and 7B-4).**

02 **If a reduced school speed limit zone has been established, a School (S1-1) sign shall be installed in advance (see Table 2C-3 for advance placement guidelines) of the first School Speed Limit sign assembly or S5-1 sign that is encountered in each direction as traffic approaches the reduced school speed limit zone (see Figures 7B-2 and 7B-4).**

03 **Except as provided in Paragraph 4 of this Section, the downstream end of an authorized and posted reduced school speed limit zone shall be identified with an END SCHOOL SPEED LIMIT (S5-3) sign (see Figures 7B-1, 7B-2, and 7B-4).**

Option:

04 **If a reduced school speed limit zone ends at the same point as a designated school zone (see Section 7B.02), an END SCHOOL ZONE (S5-2) sign may be used instead of an END SCHOOL SPEED LIMIT (S5-3) sign. A standard Speed Limit sign showing the speed limit for the section of highway that is downstream from the authorized and posted reduced school speed limit zone may be mounted on the same post above the END SCHOOL SPEED LIMIT (S5-3) sign or the END SCHOOL ZONE (S5-2) sign.**

Guidance:

05 *The beginning point of a reduced school speed limit zone should be at least 200 feet in advance of the school grounds or a school crossing; however, this 200-foot distance should be increased if the reduced school speed limit is 30 mph or higher. The maximum beginning point of a reduced school speed limit zone should not be greater than 500 feet in advance of the school grounds or a school crossing.*

74 **Standard:**

75 06 **The School Speed Limit assembly shall be either a static sign assembly, a blank-out sign, or a**
76 **changeable message sign (see Chapter 2L).**

77 07 **The static School Speed Limit assembly shall consist of a top plaque (S4-3P) with the legend**
78 **SCHOOL, a Speed Limit (R2-1) sign, and a bottom plaque (S4-1P, S4-2P, S4-4P, or S4-6P) indicating**
79 **the specific periods of the day and/or days of the week that the special school speed limit is in effect**
80 **(see Figure 7B-1).**

81 08 **When a School Speed Limit When Flashing (S5-1) sign or a Speed Limit (R2-1) sign with a**
82 **supplemental WHEN FLASHING (S4-4P) plaque is used, a Speed Limit Sign Beacon (see Section**
83 **4S.04) shall be used to identify the periods that the school speed limit is in effect.**

84 09 **Fluorescent yellow-green pixels shall be used when the “SCHOOL” message is displayed on a**
85 **changeable message sign for a school speed limit.**

86 Option:

87 09a The ALL YEAR plaque (S4-7P) may be added to the School Speed Limit Assembly as a top plaque
88 with the SCHOOL (S4-3P) plaque if the school operates on a 12-month schedule.

89 09b A SCHOOL DAYS bottom plaque may be used in combination with the S4-1P bottom plaque indicating
90 specific periods of the day that the special school speed limit is in effect per Oregon law.

91 Support:

92 09c ORS 811.111 defines the different conditions for reduced school speed limit zones in Oregon.

93 Option:

94 10 Changeable message signs may use blank-out messages or other methods in order to display the school
95 speed limit only during the periods it applies.

96 11 A Vehicle Speed Feedback (W13-20aP) plaque that displays the speed of approaching drivers (see
97 Sections 2B.21 and 2C.13), that is part of a School Speed Limit assembly or a School Speed Limit When
98 Flashing (S5-1) sign, may be used in a school speed limit zone.

99 Guidance:

100 12 If used, the Vehicle Speed Feedback (W13-20aP) plaque should only be used during the time period
101 when the school speed limit is in effect.

102 13 A Reduced School Speed Limit Ahead (S4-5 or S4-5a) sign (see Figure 7B-1) should be used to inform
103 road users of a reduced speed zone where the speed limit is being reduced by more than 10 mph, or where
104 engineering judgment indicates that advance notice would be appropriate.

105 **Standard:**

106 14 **If used, the Reduced School Speed Limit Ahead sign shall be followed by a School Speed Limit**
107 **sign or a School Speed Limit assembly.**

108 15 **The speed limit displayed on the Reduced School Speed Limit Ahead sign shall be identical to the**
109 **speed limit displayed on the subsequent School Speed Limit sign or School Speed Limit assembly.**



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 7D.01 – Adult Crossing Guards	Last Revised January 03, 2025	Proposal No. 11702
Supplement Team 7-Schools	Status OTCDC Review – Round 2	Type Carryover
Summary (2-3 sentences) Section 7D.01 states that jurisdictions should have policies and procedures for the qualification, selection, and training of adult crossing guards. This proposes adding a statement to direct readers to the “Oregon Traffic Patrol Manual for Schools,” which the Oregon Department of Education developed for this specific purpose.		
This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.		
The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement: <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Section 7D.01 states that jurisdictions should have policies and procedures for the qualification,
3 selection, and training of adult crossing guards. A statement is needed to direct readers to material that
4 is available for jurisdictions in Oregon.

5 Discussion

6 The Oregon Department of Education publishes the [Oregon Traffic Patrol Handbook for Schools](#) to
7 help school districts organize and operate effective school patrol programs. This is a resource that local
8 traffic engineers and school officials should consult when setting up traffic patrol programs. Including a
9 reference to it in the Oregon Supplements will help promote its use.

10 Proposed Supplement Content

11 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
12 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

13 **CHAPTER 7D. CROSSING SUPERVISION**

14 **Section 7D.01 Adult Crossing Guards**

15 Option:

16 01 Adult crossing guards may be used to provide gaps in traffic at school crossings where an engineering
17 study has shown that adequate gaps need to be created, and where authorized by law.

18 Support:

19 02 Adult crossing guards can also add conspicuity at the crossing where children, who are typically
20 smaller in stature, might not be as visible.

21 03 High standards for selection of adult crossing guards are essential because they are responsible for the
22 safety of and the efficient crossing of the street by schoolchildren within and in the immediate vicinity of
23 school crosswalks.

24 *Guidance:*

25 04 *Jurisdictions should have policies and procedures for the qualifications, selection, and training of adult*
26 *crossing guards.*

27 Support:

28 05 [The “Oregon Traffic Patrol Manual for Schools” published by the Oregon Department of Education](#)
29 [provides information regarding the organization, administration, and operation of school traffic patrol](#)
30 [programs in Oregon.](#)



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 7D.02 – Operating Procedures for Adult Crossing Guards	Last Revised January 03, 2025	Proposal No. 11703
Supplement Team 7-Schools	Status OTCDC Review – Round 2	Type Carryover
Summary (2-3 sentences) Section 7D.02 limits crossing guards to the use of a STOP paddle as the only allowable hand signaling device; there is no allowance for the use of a SCHOOL flag which would be more appropriate at a signal-controlled intersection. This supplement proposes adding an allowance for school crossing guards to use either a SCHOOL flag or a STOP paddle. This supplement adds a statement prohibiting the use of a STOP paddle at a signal-controlled intersection.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Section 7D.02 limits crossing guards to the use of a STOP paddle as the only allowable hand signaling
3 device; there is no allowance for the use of a SCHOOL flag which would be more appropriate at a
4 signal-controlled intersection.

5 Discussion

6 It is more appropriate for school crossing guards to use the SCHOOL flag (rather than a STOP paddle)
7 at signalized intersections due to the potential for driver confusion if a crossing guard unintentionally
8 directs a STOP paddle at vehicular traffic. While school guards are instructed to only enter a signalized
9 crosswalk when the WALK signal is on (and are thereby only stopping turning conflicts in the
10 crosswalk), an unintentional display of a STOP sign to vehicular traffic while that traffic has a green
11 light could be confusing to drivers. Equipping these crossing guards (at signalized intersections) with
12 only a SCHOOL flag will reduce the potential for the driver confusion that could result from an
13 unintentional display of a stop sign to traffic that is faced with a green light. If a driver initially begins

14 to stop when the light is green, students might mistakenly believe that the light is red and they might
15 begin entering the crosswalk without realizing that they are, in fact, crossing against a green light.
16 School zones are safer when the messages from traffic control devices are all consistent without the
17 need for driver interpretation and filtering.

18 ORS 811.265 has an allowance for a driver to follow the directions of a police officer instead of traffic
19 signal indications at a traffic signal, but it does not have such an allowance for school crossing guards.
20 School crossing guards are intended to support the operation of the traffic signal; the ORS does not give
21 them authority to supersede or preempt normal traffic signal operation. This expectation supports the
22 use of a SCHOOL flag rather than a STOP paddle at a traffic signal.

811.265 Driver failure to obey traffic control device; penalty.

- (1) A person commits the offense of driver failure to obey a traffic control device if the person drives a vehicle and the person does any of the following:
 - (a) Fails to obey the directions of any traffic control device.
 - (b) Fails to obey any specific traffic control device described in ORS 811.260 in the manner required by that section.
- (2) A person is not subject to this section if the person is doing any of the following:
 - (a) Following the directions of a police officer.
 - (b) Driving an emergency vehicle or ambulance in accordance with the privileges granted those vehicles under ORS 820.300.
 - (c) Properly proceeding on a red light as authorized under ORS 811.360.
 - (d) Driving in a funeral procession led by a funeral lead vehicle or under the direction of the driver of a funeral escort vehicle.
 - (e) Properly entering an intersection or executing a turn at a stop sign as authorized under ORS 814.414.
 - (f) Properly entering an intersection or executing a turn at a flashing red signal as authorized under ORS 814.416.
- (3) The offense described in this section, driver failure to obey a traffic control device, is a Class B traffic violation.

[1983 c.338 §608; 1991 c.482 §13; 2015 c.147 §3; 2019 c.683 §5]

23 The Oregon Department of Education is identified as having the responsibility to establish operating
24 procedures for school traffic patrols in OAR 581-021-0100. Procedures for using the SCHOOL flag and
25 STOP paddle are described in the Oregon Traffic Patrol Manual for Schools published by the Oregon
26 Department of Education. Specifications including the color, size, and shape of the SCHOOL flag are
27 also given in the publication.

28 Proposed Supplement Content

29 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
30 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

31 CHAPTER 7D. CROSSING SUPERVISION

32 Section 7D.02 Operating Procedures for Adult Crossing Guards

33 **Standard:**

34 01 Law enforcement officers performing school crossing supervision and adult crossing guards shall
35 wear high-visibility retroreflective safety apparel labeled as ANSI 107-2020 standard performance for
36 Class 2, Type R, as described in Section 6C.05.

37 02 Adult crossing guards shall not direct traffic in the usual law enforcement regulatory sense. In the
38 control of traffic, they shall pick opportune times to create a sufficient gap in the traffic flow. At these
39 times, they shall stand in the roadway to indicate that pedestrians are about to use or are using the
40 crosswalk, and that all vehicular traffic must stop.

41 03 Adult crossing guards shall use either a SCHOOL flag or a STOP paddle approved by the Oregon
42 Department of Education. Adult crossing guards shall not use a STOP paddle at a crosswalk
43 controlled by a traffic control signal. ~~The STOP paddle shall be the primary hand-signaling device.~~

44 03a Traffic control devices, systems, and practices approved by the Oregon Department of Education
45 shall be consistent with the design and application of Standards contained in this Manual.

46 Support:

47 03b ORS 811.260 and 811.265 outline proper driver response to a traffic control signal. Changes in
48 Paragraph 03 ensure that adult crossing guards do not conflict with Oregon law.

49 03c The Oregon Department of Education regulates traffic patrol programs for schools and monitors
50 requirements for flagging devices including SCHOOL flags and safety vests per ORS 339.650 through
51 339.665. Specifications including the color, size, and shape of the SCHOOL flag are given in the Oregon
52 Traffic Patrol Manual for Schools as published by the Oregon Department of Education.

53 **Standard:**

54 04 **The STOP paddle shall comply with the provisions for a STOP/SLOW paddle (see Section 6D.02)**
55 **except both sides shall be a STOP face.**

56 05 **The paddle shall be retroreflective or illuminated when used during hours of darkness.**



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 8A.01 – Introduction, 8A.03 – Systems and Practices at Grade Crossings, 8A.05 – Engineering Studies at Grade Crossings	Last Revised January 03, 2025	Proposal No. 11801
Supplement Team 8-Rall	Status FHWA Review – Round 1	Type Carryover
Summary (2-3 sentences) This proposes retaining ODOT Rail Division authority language in Part 8 as authorized in ORS 824.200 through 824.256.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 **Problem**

2 The federal MUTCD does not name the statutory authority in Oregon for regulating traffic control for
3 railroad and light rail transit grade crossings. For example, Part 8 has many instances where it says a
4 particular standard, guidance, or support statement is, “...as determined by a diagnostic team” or
5 “...be determined based on an engineering study conducted by a diagnostic team.” Therefore, the
6 Supplement must clarify the diagnostic team’s role and authority when practicing in Oregon.

7 **Discussion**

8 **Statutory Authority at Grade Crossings in Oregon**

9 Users of the MUTCD Part 8 need to know the statutory authority in Oregon to correctly and efficiently
10 use and implement information contained in Part 8. The proposed language is currently in the 2009
11 Oregon Supplement to the MUTCD.

12 ORS 824.200 through ORS 824.256 vests exclusive authority in the State through the Rail Division of the
13 Oregon Department of Transportation to control and regulate the construction, alteration, and
14 protection of highway-rail and highway-LRT grade crossings (in semi-exclusive alignments). The
15 recommendations/determinations/engineering studies produced by any diagnostic team cannot
16 override this statutory authority.

17 The following statute summary shows the legal requirement for the rail crossing order issued by the rail
18 division to be in accordance with the MUTCD and Oregon Supplement to the MUTCD:

- 19 • OAR 734-020-005, in accordance with ORS 810.200, will state the version of the MUTCD plus the
20 Oregon Supplement to the MUTCD that is adopted as the manual and specifications of uniform
21 standard for traffic control devices for use upon highways within the state of Oregon. Highways
22 is defined in ORS 801.305 as every public way, road, street, thoroughfare and place including
23 bridges, viaducts and other structures within the boundaries of this state, open, used or
24 intended for use of the general public for vehicles or vehicular traffic as a matter of right.
- 25 • ORS 824.220 (Protective devices; rules) states that the Department of Transportation shall adopt
26 rules prescribing specifications for the design and location of protective devices. Protective
27 devices is defined in ORS 824.200(5) as a sign, signal, gate or other device to warn or protect the
28 public, installed at or in advance of a railroad-highway crossing (i.e. essentially a traffic control
29 device).
- 30 • OAR chapter 741 (rail division), in accordance with ORS 824.220, provides additional guidance
31 for protective devices. OAR 741-110-0050 states the requirement that no protective devices shall
32 be installed, removed or substituted for any other device, without prior authorization by Order
33 of the Department. OAR 741-110-0040(1) contains a general statement that standard protective
34 devices shall be located as set forth in part 8 of the MUTCD. Also, throughout chapter 741 the
35 following language is used numerous times where applicable:
 - 36 ○ in accordance with the MUTCD
 - 37 ○ as set forth in the MUTCD
 - 38 ○ see Section XX.XX of the MUTCD
 - 39 ○ shall comply with the MUTCD

40 **Authority Continuity 2009 Supplement to 11th Edition**

41 The 2009 Oregon Supplement included several changes to reiterate when a diagnostic team
42 recommendation, crossing order, and/or approval from the ODOT Rail Division is necessary for each
43 specific statement throughout Part 8.

44 The changes proposed for the 11th Edition Supplement in Sections 8A.01, 8A.03, and 8A.05 cover the
45 high-level Oregon statutory authority requirements and apply to all Part 8 content so there is no need
46 to reiterate these authorities for each specific statement in Part 8. Therefore, the following 2009
47 Supplements that reference a diagnostic team, crossing order, and/or rail division approval are not
48 being moved forward in the Oregon Supplement to the 11th Edition:

- 49 1. 8A.02
- 50 2. 8A.03
- 51 3. 8A.05
- 52 4. 8B.04
- 53 5. 8B.06
- 54 6. 8B.09
- 55 7. 8B.27
- 56 8. 8B.28

DRAFT

57 Proposed Supplement Content

58 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
59 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

60 CHAPTER 8A. GENERAL

61 Section 8A.01 Introduction

62 Support:

63 01 Where the acronym “LRT” is used in Part 8, it refers to “light rail transit.”

64 02 Chapters 8A, 8B, 8C, and 8D describe the traffic control devices that are used at highway-rail and
65 highway-LRT grade crossings. Unless otherwise provided in the text or on a figure or table, the provisions
66 of Part 8 are applicable to both highway-rail and highway-LRT grade crossings. Where the phrase “grade
67 crossing” is used by itself without the prefix “highway-rail” or “highway-LRT,” it refers to both highway-
68 rail and highway-LRT grade crossings.

69 03 Chapter 8E describes the traffic control devices that are used at pathway and sidewalk grade crossings.

70 04 Traffic control for grade crossings includes all signs, signals, markings, other warning devices, and their
71 supports along highways approaching and at grade crossings. The function of this traffic control is to
72 promote safety and provide effective operation of rail and/or LRT and highway traffic at grade crossings.

73 05 For purposes of design, installation, operation, and maintenance of traffic control devices at grade
74 crossings, it is recognized that the crossing of the highway and rail tracks is situated on a right-of-way
75 available for the joint use of both highway traffic and railroad or LRT traffic.

76 06 Grade crossings and the traffic control devices that are associated with them are unique in that in many
77 cases, the highway agency or authority with jurisdiction, the regulatory agency with statutory authority (if
78 applicable), and the railroad company or transit agency are jointly involved in the development of
79 engineering judgment or the performance of an engineering study. This joint process is accomplished
80 through the efforts of a Diagnostic Team made up of the highway agency with jurisdiction, the regulatory
81 agency with statutory authority (if applicable), and the railroad company and/or transit agency (if
82 applicable).

83 07 In Part 8, the combination of traffic control devices selected or installed at a specific grade crossing is
84 referred to as a “traffic control system.”

85 08 The combination of railroad or LRT active traffic control devices used to inform road users at a grade
86 crossing of the approach or presence of rail traffic and the necessary control equipment for the devices are
87 referred to as a “grade crossing warning system.” The “2023 AREMA Communications and Signals
88 Manual” published by the American Railway Engineering and Maintenance-of-Way Association (AREMA)
89 contains further information about grade crossing warning systems.

90 **Standard:**

91 09 **Except at grade crossings of privately-owned roadways, pathways, and sidewalks, the traffic**
92 **control devices, systems, and practices described in this Manual shall be used at all grade crossings**
93 **open to public travel, consistent with Federal, State, and local laws and regulations.**

94 Support:

95 10 23 CFR 655.603 contains information on the applicability of this Manual at private grade crossings.

96 **Standard:**

97 11 **Authority to alter, construct, or eliminate a highway-rail or highway-LRT grade crossing,**
98 **including those traffic control devices in approach to and at the crossing that affect the safety of the**
99 **crossing, shall be obtained from the State through issuance of a Crossing Order by the Rail Division**
100 **of the Oregon Department of Transportation.**

101 **Support:**

102 12 **ORS 824.200 through ORS 824.256 vests exclusive authority in the State through the Rail Division of**
103 **the Oregon Department of Transportation to control and regulate the construction, alteration, and protection**
104 **of highway-rail and highway-LRT grade crossings (in semi-exclusive alignments).**

105 **Section 8A.03 Traffic Control Systems and Practices at Grade Crossings**

106 Support:

107 01 Because of the large number of significant variables to be considered, no single standard system of
108 traffic control devices is universally applicable for all grade crossings.

109 **Standard:**

110 02 **Before any new grade crossing traffic control system is installed or before modifications are made**
111 **to an existing system, approval shall be obtained from the highway agency with jurisdiction, the**
112 **regulatory agency with statutory authority (if applicable), and the railroad company and/or transit**
113 **agency.**

114 03 **The Diagnostic Team members shall make a recommendation, documented in an engineering**
115 **study (see Section 8A.05), on new grade crossing traffic control systems and on proposed changes to**
116 **an existing grade crossing traffic control system. The Diagnostic Team recommendation shall be**
117 **made based on the Diagnostic Team’s site visits, meetings, conference calls, or a combination of some**
118 **or all of these methods.**

119 04 **Except as provided in Paragraph 7 of this Section, operational changes made to a grade crossing**
120 **traffic control system shall be evaluated by a Diagnostic Team.**

121 05 **Among the types of changes at a grade crossing for which a Diagnostic Team shall conduct an**
122 **engineering study are: additions, removals, or modifications of the lanes approaching or traversing**
123 **the grade crossing; addition or removal of tracks; significant changes in the number or speed of**
124 **trains; significant changes in the number or speed of vehicles; addition of vehicle access near the**
125 **grade crossing; additions or modifications to sidewalks; additions or modifications to bicycle lanes,**
126 **especially if a counterflow bicycle lane is added on a one-way street; changes to roadway use,**
127 **including conversion to or from one-way operation or reversible lanes; and the installation of or**
128 **significant operational changes to traffic control signals that might affect the grade crossing.**

129 Option:

130 06 A Diagnostic Team may conduct an engineering study and make recommendations as part of the Quiet
131 Zone establishment process (see Section 8A.11).

132 07 Where determined by the responsible public agency, the railroad company, and/or the transit agency,
133 general maintenance activities or minor operational changes to the grade crossing traffic control system that
134 do not have a negative impact on the overall operation of the traffic control system may be made without a
135 review and determination by a Diagnostic Team.

136 Support:

137 08 Many other details of grade crossing traffic control systems that are not set forth in Part 8 are contained
138 in publications such as the “2023 AREMA Communications and Signals Manual” published by the
139 American Railway Engineering and Maintenance-of-Way Association (AREMA), the Third Edition of
140 “Highway-Rail Crossing Handbook” published by the FHWA and the FRA, and the 2nd Edition of
141 “Preemption of Traffic Signals Near Railroad Crossings” published by the Institute of Transportation
142 Engineers (ITE).

143 **Standard:**

144 09 **Recommendations and Engineering Studies produced by the diagnostic team are not binding and**
145 **do not constitute final approval of the statutory authority.**

146 **Support:**

147 10 **ORS 824.200 through ORS 824.256 vests exclusive authority in the State through the Rail Division of**
148 **the Oregon Department of Transportation via the issuance of a Crossing Order to control and regulate the**
149 **construction, alteration, and protection of highway-rail and highway-LRT grade crossings (in semi-**
150 **exclusive alignments).**

151 **Section 8A.05 Engineering Studies at Grade Crossings**

152 **Standard:**

153 01 **The appropriate traffic control system to be used at a grade crossing shall be determined based**
154 **on an engineering study conducted by a Diagnostic Team involving the highway agency with**
155 **jurisdiction, the regulatory agency with statutory authority (if applicable), and the railroad company**
156 **and/or transit agency (as applicable).**

157 ~~Option:~~

158 02 **The regulatory agency with statutory authority (if applicable) ~~may~~ shall approve the grade**
159 **crossing traffic control system.**

160 *Guidance:*

161 03 *Among the factors that should be considered in the determination by a Diagnostic Team of which traffic*
162 *control devices would be appropriate to install at a grade crossing are road geometrics, stopping sight*
163 *distance, clearing sight distance, the proximity of nearby roadway intersections (including the traffic*
164 *control devices at the intersections), adjacent driveways, traffic volume across the grade crossing, extent of*
165 *queuing upstream or downstream from the grade crossing, train volume, pedestrian and bicycle volumes,*
166 *operation of passenger trains, presence of nearby passenger station stops, maximum allowable train*
167 *speeds, variable train speeds, accelerating and decelerating trains, multiple tracks, high-speed train*
168 *operation, number of school buses or hazardous material haul vehicles, and the crash history at or near the*
169 *location.*

170 *Option:*

171 04 *The engineering study may include the Highway-Rail Intersection (HRI) components of the National*
172 *Intelligent Transportation Systems (ITS) architecture, which is a USDOT accepted method for linking the*
173 *highway, vehicles, and traffic management systems with rail operations and wayside equipment.*

174 *Support:*

175 05 *More detail on Highway-Rail Intersection components is available from the USDOT's Federal Railroad*
176 *Administration, 1200 New Jersey Avenue, SE, Washington, DC 20590, or www.fra.dot.gov.*



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 8B.29 – Private Crossing Sign (Proposed New Section)	Last Revised January 03, 2025	Proposal No. 11803
Supplement Team 8-Rall	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) This proposes adding a new section to cover private crossing sign information per OAR 741-115-0060.		
This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005. The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement: <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 **Problem**

2 It is necessary to provide information about the private crossing signs in the Oregon Supplement so
3 that it is easily accessible to all users.

4 **Discussion**

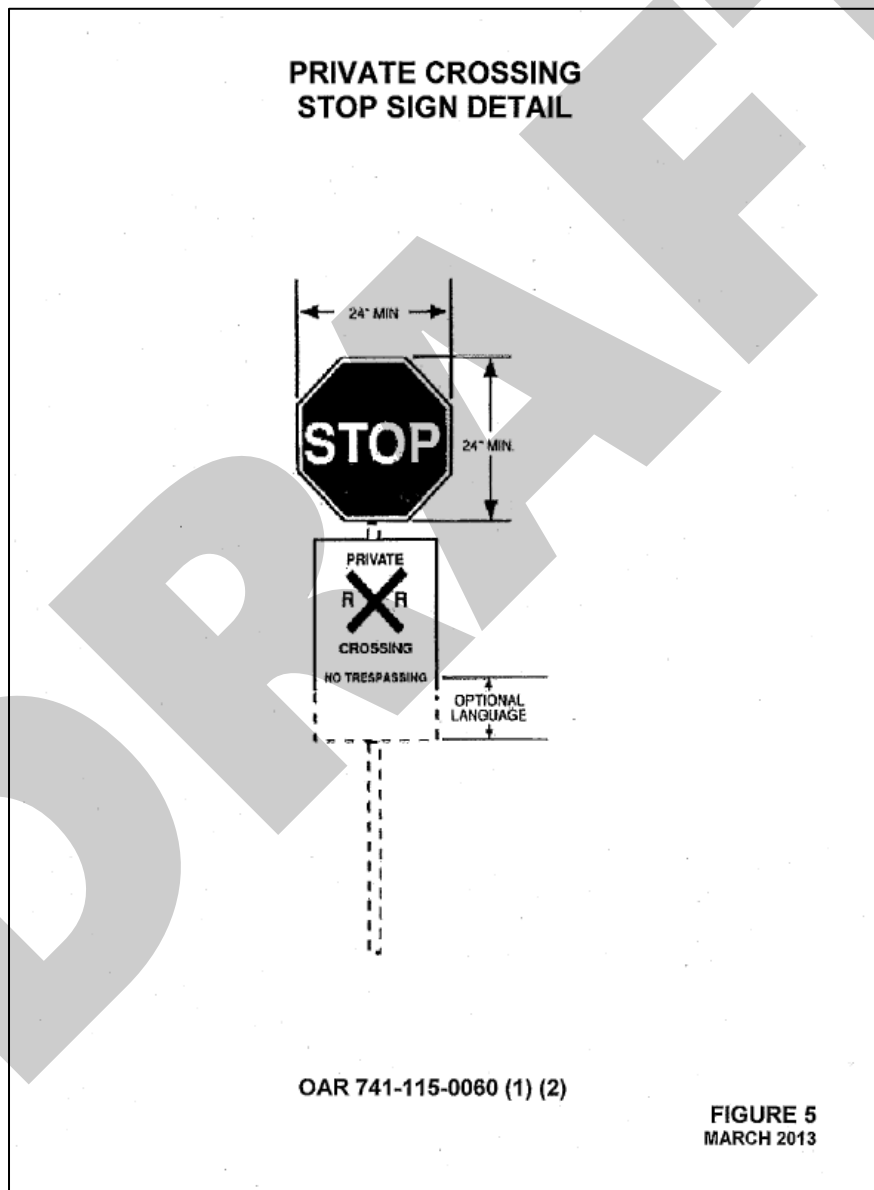
5 OAR 741-115-0060 provides specific private crossing sign information in its Figure 5 that is a good fit
6 for the Oregon supplement. The proposed language matches current practice for providing this signing
7 at grade crossings. OAR 741-115-0060 has been in place for many years (created in 1983, with updates
8 occurring 1996, 2003, 2009, and 2013).

9 As per the federal railroad administration (FRA), a private rail crossing is intended only for use by the
10 owner or by the owner’s licensees and invites. It is not intended for the public to use and the roadway
11 portion of the crossing is not owned or maintained by a public highway authority. A [2019 FRA report
12 to congress on private highway-rail grade crossings: safety data and engineering practices](#) states the
13 following:

- 14 • “In light of potential safety benefits from warning devices that road users readily comprehend,
15 FRA recommends the use of standard warning devices conforming to MUTCD at private
16 crossings with significant roadway traffic, *where states or railroads have not established*
17 *standard warning devices.*”
- 18 • “Except for private crossings in quiet zones, FRA regulations do not address the selection of
19 warning devices for private crossings. Some state public utilities commissions (PUC) with
20 jurisdiction over railroads, or similar organizations with legislated involvement in private
21 crossings, *have established standard practices for private crossings, such as the examples in*
22 *Appendix C.*” As per appendix C, California, Washington, and Oregon were the only states used
23 as an example for established practices. The standard signing for private crossings as
24 established by OAR 741-115-0060 very closely matches that of our neighboring states (including
25 the use of NO TRESPASSING on the sign).
- 26 Oregon’s long-established history for signing of private grade crossings is in agreement with the recent
27 recommendations from the Federal Rail Administration’s report to congress.

OAR 741-115-0060 – Stop Signs at Private Crossings

- (1) Unless otherwise ordered by the Department under ORS 824.224, the railroad shall cause to be installed one vehicle stop sign (24-inch minimum) on each side of any private or farm crossing at grade that is not equipped with automatic protective devices.
- (2) The railroad shall also cause to be installed an auxiliary sign identifying the crossing as a private crossing by stating the words "PRIVATE CROSSING" in letters at least two inches high. The color of the sign shall be black letters on a white background (see Figure 5). Optional information such as the words "NO TRESPASSING," the name of the railroad from which permission must be secured for use of the crossing and permit number may be included on the auxiliary sign.



Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 8B. SIGNS

Section 8B.29 Private Crossing Sign

Standard:

01 Private crossings, including farm crossings, that are not equipped with flashing light signals or automatic gates shall install a STOP (R1-1) sign with private crossing sign (see Figure 8B-8(OR)) on each side of the crossing as shown in Figure 8B-9(OR).

Support:

02 The statutory authority regulates private crossing sign requirements according to OAR 741-110-0060.

Figure 8B-8(OR). Private Crossing Sign

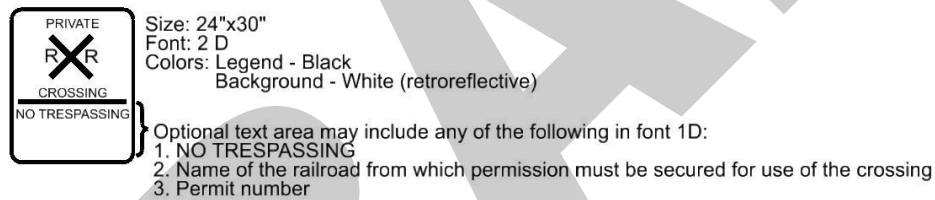
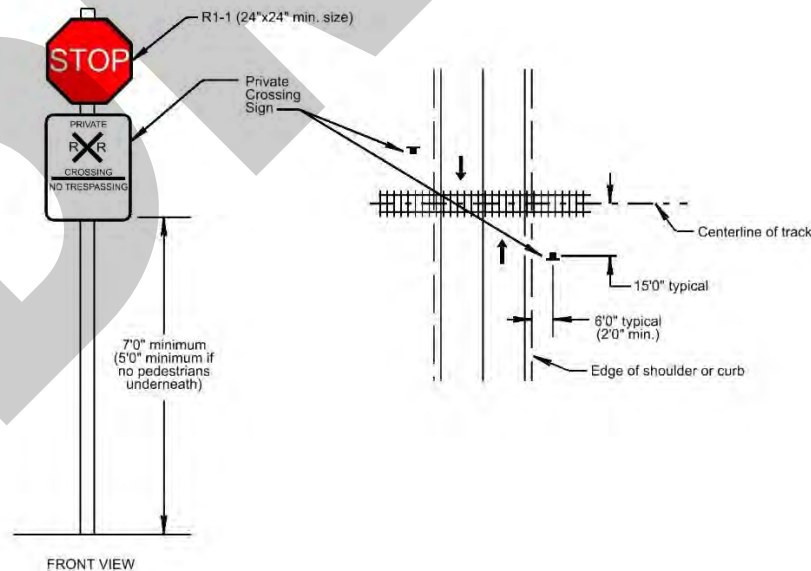


Figure 8B-9(OR). Private Crossing Sign Placement





OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 8C.02 – Grade Crossing Pavement Markings	Last Revised January 03, 2025	Proposal No. 11804
Supplement Team 8-Rall	Status FHWA Review – Round 1	Type Carryover

Summary (2-3 sentences)

This proposes changing rail grade crossing pavement marking standards per OAR 741-110-0060(5).

This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.

The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD ([23 CFR 655.603\(b\)\(1\)](#)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:

- Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.
- Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.
- Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”
- Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.

1 Problem

2 The Oregon Supplement should give more prescriptive information about rail grade crossing pavement
3 warning markings so it is easily accessible to all users.

4 Discussion

5 OAR 741-110-0060(5) provides prescriptive information for rail grade crossing pavement markings.
6 This OAR was created in 1983 with revisions occurring in 1996, 2003, and 2013. It has been successfully
7 used for many years and is more restrictive than the MUTCD guidance. The safety benefit is greater
8 uniformity at grade crossings regardless of highway approach speed. This pavement marking, in
9 conjunction with the W10-1 sign, is a very good device to get the driver’s attention. The proposed
10 language is currently in the 2009 Oregon Supplement to the MUTCD.

OAR 741-110-0060 – Required Installation of Specified Protective Devices

Unless otherwise ordered by the Department, the following protective devices shall be installed at the grade crossings described below.

- (1) One railroad STOP sign shall be installed, where physical circumstances permit, on each track approach to each crossing equipped with Flashing-light signals, Cantilevered Flashing-light signals, Pedestrian Flashing-light signals, and automatic gates when the minimum signal activation requirement of OAR 741 110-0070(1) cannot be met.
- (2) Two Number of Tracks (R15-2P) plaques shall be installed at each grade crossing consisting of two or more tracks.
- (3) Stop Clearance Lines. One stop clearance line shall be installed on each paved roadway approach lane at each grade crossing.
- (4) Grade Crossing Advance Warning Signs. Appropriate grade crossing advance warning signs shall be installed on each roadway approach to each grade crossing.
- (5) Grade Crossing Pavement Markings. Grade crossing pavement markings shall be installed on each paved vehicle approach lane to each grade crossing.
- (6) Guardrail or Curb. Guardrail or curb, as appropriate, shall be installed at each crossing equipped with active protective devices.

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 8C. MARKINGS

Section 8C.02 Grade Crossing Pavement Markings

Standard:

01 **On paved roadways, grade crossing pavement markings shall consist of an X, the letters RR, a no-passing zone marking (on two-lane, two-way highways with center line markings in compliance with Section 3B.01), and certain transverse lines as shown with detailed dimensions in Figures 8C-1 and 8C-2.**

02 **Except as provided in Paragraphs ~~3 and 4~~ of this Section, grade crossing pavement markings shall be placed in each approach lane on all paved approaches to highway-rail grade crossings ~~where signals or automatic gates are located, and at all other grade crossings where the posted or statutory highway speed is 40 mph or higher.~~**

03 **Grade crossing pavement markings shall ~~not~~ be required at highway-rail grade crossings unless where the posted or statutory highway speed is less than 40 mph if the Diagnostic Team determines that other installed devices provide suitable warning and control.**

28 04 ~~Grade crossing pavement markings shall not be required at highway-rail grade crossings in~~
29 ~~urban areas if the Diagnostic Team determines that other installed devices provide suitable warning~~
30 ~~and control.~~

31 05 **Grade crossing pavement markings shall be placed in each approach lane on all paved**
32 **approaches to highway-LRT grade crossings where a Crossbuck sign is placed at the grade crossing.**

33 06 **If grade crossing pavement markings are used on a multi-lane approach to a grade crossing,**
34 **identical markings shall be placed in each approach lane that crosses the tracks.**

35 07 **All grade crossing pavement markings shall be retroreflective white. All other markings shall be**
36 **in accordance with Part 3.**

37 *Guidance:*

38 08 *Where grade crossing pavement markings are used, a portion of the X symbol should be directly*
39 *opposite the Grade Crossing Advance Warning sign.*

40 *Option:*

41 09 *Where determined by the Diagnostic Team, supplemental pavement marking symbol(s) may be placed*
42 *between the Grade Crossing Advance Warning sign and the grade crossing.*

43 *Guidance:*

44 10 *If supplemental pavement marking symbol(s) are placed between the Grade Crossing Advance Warning*
45 *sign and the grade crossing, the downstream transverse line should be at least 50 feet upstream from the*
46 *stop or yield line at the grade crossing.*



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 8C.03 – Stop and Yield Lines	Last Revised January 03, 2025	Proposal No. 11805
Supplement Team 8-Rail	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) This proposes to: 1) Omit the rail stop line when a nearby crosswalk can serve the same purpose, 2) Clarify use of a 24-inch-wide rail stop line, and 3) Require a stop line at every paved roadway approach.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 OAR 741-110-0060(3) requires a rail stop line for each paved roadway approach lane. This part of the
3 proposed language the supplement is currently in the 2009 Oregon Supplement to the MUTCD.

4 If the rail crossing is near a signalized intersection or a marked crosswalk, then the rail stop line in
5 conjunction with a marked crosswalk (potentially with a crosswalk stop line), or an intersection stop
6 line results in clutter and road users confused about where they need to stop. Less driver confusion
7 typically results in safer operations.

8 It’s also not clear how wide rail stop lines need to be. Figure 8C-1 is the only location that shows the rail
9 stop line as 24 inches. Section 8C.03 only references section 3B.19 for information on the stop line. There
10 is no text in Section 8C.03 or in Section 3B.19 that says the rail stop line shall be 24 inches wide. Relying
11 only on Figure 8C-1 for this important information could result in installation errors.

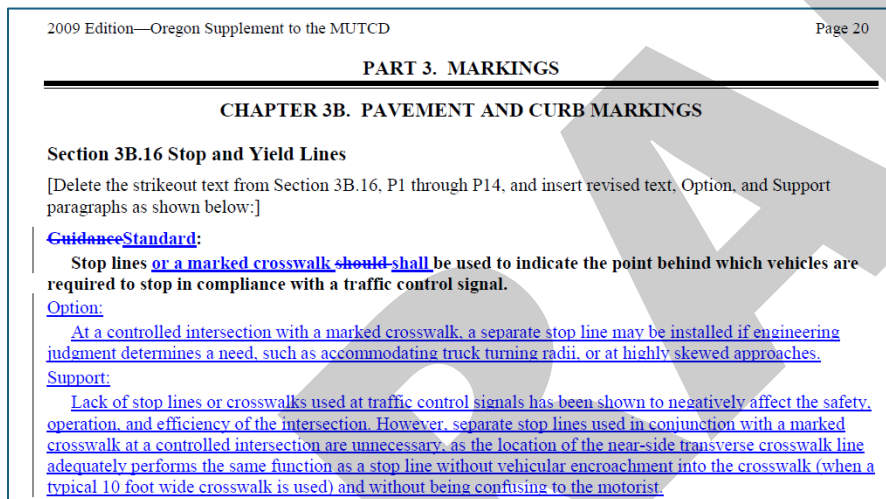
12 Discussion

13 Omitting Extra Stop Lines near a Marked Crosswalk

14 Certain grade crossing locations have a marked crosswalk near an automatic gate arm (typically at
15 signalized, rail interconnected intersections). Example at [unsignalized intersection in Newberg](#) and
16 example at [signalized intersection in Hillsboro](#).

17 The Oregon Supplement to the 2009 MUTCD allows either a stop line or a marked crosswalk to show
18 the point behind which vehicles are required to stop in compliance with a traffic control signal.
19 Proposal No. 11302 proposes to continue this practice under the MUTCD 11th Edition. This Oregon
20 standard practice and the desire to provide clear direction of a single stopping location is the reason for
21 the proposed language.

22 Figure 1: Oregon Supplement to the 2009 MUTCD, Section 3B.16



23

24 OAR 741-110-0060(3) requires a rail stop line for each paved roadway approach lane. This means the
25 Oregon Supplement should upgrade the guideline in 8C.03 Paragraphs 01 and 02 to a standard. Note:
26 passive grade crossing may either have a STOP or YIELD sign. The MUTCD section 3B.19 paragraphs
27 01 and paragraphs 03 and 8C.03 paragraphs 02 allow the use of a stop line in conjunction with a YIELD
28 sign for a passive grade crossing (this specific application is the only exception in the MUTCD). Using a
29 stop line for all rail crossings (even those with YIELD signs) has been Oregon’s practice, is per the
30 MUTCD, and is preferred for uniformity at all rail crossings.

OAR 741-110-0060 – Required Installation of Specified Protective Devices

Unless otherwise ordered by the Department, the following protective devices shall be installed at the grade crossings described below.

- (1) One railroad STOP sign shall be installed, where physical circumstances permit, on each track approach to each crossing equipped with Flashing-light signals, Cantilevered Flashing-light signals, Pedestrian Flashing-light signals, and automatic gates when the minimum signal activation requirement of OAR 741 110-0070(1) cannot be met.
- (2) Two Number of Tracks (R15-2P) plaques shall be installed at each grade crossing consisting of two or more tracks.
- (3) Stop Clearance Lines. One stop clearance line shall be installed on each paved roadway approach lane at each grade crossing.
- (4) Grade Crossing Advance Warning Signs. Appropriate grade crossing advance warning signs shall be installed on each roadway approach to each grade crossing.
- (5) Grade Crossing Pavement Markings. Grade crossing pavement markings shall be installed on each paved vehicle approach lane to each grade crossing.
- (6) Guardrail or Curb. Guardrail or curb, as appropriate, shall be installed at each crossing equipped with active protective devices.

31 **Wide Stop Line Clarification**

32 Providing information on the 24-inch rail stop line requirement in the text of Section 8C.03 is an
33 important redundancy to include.

34 **Proposed Supplement Content**

35 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
36 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

37 **CHAPTER 8C. MARKINGS**

38 **Section 8C.03 Stop and Yield Lines**

39 ~~Guidance:~~ Standard:

40 01 Except as provided in Paragraph 02a of this section, on ~~On~~ paved roadway approaches to passive
41 grade crossings where a STOP sign is installed in conjunction with the Crossbuck sign, a **24-inch-wide**
42 stop line ~~should~~ **shall** be installed to indicate the point behind which motor vehicles are required to
43 stop or as near to that point as practicable.

44 **Option:**

45 02 **Except as provided in Paragraph 02a of this section, on ~~On~~ paved roadway approaches to passive**
46 **grade crossings where a YIELD sign is installed in conjunction with the Crossbuck sign, a ~~yield line~~**
47 **(see Section 3B.19) or a 24-inch wide stop line may ~~may~~ shall be installed to indicate the point behind which**
48 **motor vehicles are required to yield or stop or as near to that point as practicable.**

49 **Option:**

50 02a **The stop line may be omitted if a marked crosswalk (transverse style only, see Figure 3C-1), stop line**
51 **for a marked crosswalk, or stop line for a signalized approach is present and can serve the function of**
52 **indicating where motor vehicles are required to stop for pedestrians/compliance with a traffic signal and the**
53 **rail crossing.**

54 **Support:**

55 02b **Providing a single stop line location when a rail crossing is located very near to a crosswalk or**
56 **signalized approach reduces pavement marking clutter and confusion to the driver.**

57 **Guidance:**

58 03 ***If a ~~yield line (see Figure 3B-16) or~~ stop line is used at a passive grade crossing, it should be a***
59 ***transverse line at a right angle to the traveled way and should be placed no closer than 15 feet in advance***
60 ***of the nearest rail.***

61 **Standard:**

62 04 **Except as provided in Paragraph 02a of this section, on ~~On~~ paved roadways at grade crossings**
63 **that are equipped with active control devices such as flashing-light signals, automatic gates, or traffic**
64 **control signals, a 24-inch-wide stop line (see Section 3B.19) shall be installed to indicate the point**
65 **behind which motor vehicles are or might be required to stop.**

66 **Guidance:**

67 05 ***If a stop line is used at an active grade crossing where road users are controlled by flashing-light***
68 ***signals, it should be a transverse line at a right angle to the traveled way and should be placed***
69 ***approximately 8 feet in advance of the flashing-light signals or automatic gate (if present), whichever is***
70 ***farther from the track(s), but no closer than 15 feet in advance of the nearest rail (see Figure 8C-1).***

71 06 ***If a stop line is used at an active grade crossing where road users are controlled by a traffic control***
72 ***signal, it should be a transverse line at a right angle to the traveled way and should be placed no closer***
73 ***than 15 feet in advance of the nearest rail.***

74 **Standard:**

75 07 **If a stop line is used at an active grade crossing where road users are controlled by a traffic**
76 **control signal, it shall be placed such that the lateral and longitudinal positions of the signal faces for**
77 **the approach comply with the provisions of Sections 4D.07 and 4D.08.**



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 8D.02 – Flashing-Light Signals	Last Revised January 03, 2025	Proposal No. 11806
Supplement Team 8-Rall	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) This proposes to: 1) add a standard for flashing light signal systems per OAR 741-110-0030(3)(e), and 2) upgrade an option to a standard for rail audible warning devices per OAR 741-110-0030(3)(a).		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 The Oregon Supplement should provide more prescriptive information about the flashing light signals
3 and rail audible warning devices so it is easily accessible to all users.

4 Discussion

5 OAR 741-110-0030(3)(a) and (e) provides prescriptive information for rail audible warning devices and
6 flashing light signals that is a good fit for the Oregon supplement. The proposed language matches
7 current practice.

8 The rail audible warning device, in conjunction with the rail flashing light assembly, is a very good
9 device to get the driver’s and pedestrian’s attention. It has been used successfully for many years and
10 should not be an option.

11 The intent behind having at least one red flashing light visible from any point in the safe stopping
12 distance is to allow the necessary flexibility for placement at roadway/intersection geometries that are
13 less than ideal or have a short-term temporary obstruction (such as a utility pole) as they approach the
14 rail crossing, while still maintaining the minimum necessary visibility to the rail flashing red devices. A
15 driver seeing a single flashing red indication knows that means stop and that is the safe and proper
16 response to an activated rail device. As the driver approaches the rail crossing or passes the short-term
17 temporary obstruction, the other red flashing light indications showing the full wig-wag pattern will
18 usually become visible. At the other extreme, we have seen excessive concern over a short-term
19 temporary obstruction that partially blocked just one of the red flashing lights from a roadway
20 approach with a total of 10 red flashing lights (six of which were located overhead on a cantilever, four
21 of which were located specific to pedestrians).

DRAFT

OAR 741-110-0030 – Standard Protective Devices

- (1) The devices listed in the MUTCD and the devices listed in Sections (2), (3), (4), (5), (6), and (7) of this rule are “standard protective devices.”
- (2) Passive Devices:
 - (a) Railroad STOP Sign Figure 1 is a fixed rectangular sign that shall bear the word “STOP” in white reflective letters on red reflective material.
 - (b) Stop Clearance Line is a stop line as defined in Section 1A.13 of the MUTCD, which is 24 inches wide.
 - (c) “Illumination” (Figure 4) is a system of luminaires arranged in a unique pattern to provide direct lighting on the side of railroad equipment occupying a grade crossing during hours of darkness.
- (3) Active Devices at Grade Crossings:
 - (a) Flashing-Light Signal is as set forth in Section 8C.02 of the MUTCD, which has an audible warning device. For additional specifications for Flashing-light signals, refer to subsections (e) and (f) of this section.
 - (b) Cantilevered Flashing-Light Signal is as set forth in Section 8C.02 of the MUTCD, which has an audible warning device. For additional specifications on cantilevered Flashing-light signals, refer to subsections (e) and (f) of this section.
 - (c) Pedestrian Flashing-Light Signal is as set forth in Section 8D.06 of the MUTCD. For additional specifications on Pedestrian Flashing-light signals, refer to subsections (e) and (f) of this section.
 - (d) Automatic Gate is as set forth in Section 8C.04 of the MUTCD.
 - (e) Light units on Flashing-light signals, Cantilevered Flashing-light signals, and Pedestrian Flashing-light signals shall be aligned so that insofar as it is practical to do so, at least one full 12-inch diameter red light shall be visible when viewed from any point on the roadway within the safe stopping distance.
 - (f) Unless otherwise specified, 12-inch diameter roundels (lenses) on Flashing-light signals, Cantilevered Flashing-light signals, and Pedestrian Flashing-light signals, if incandescent bulbs are used, shall be as follows:
 - (A) Front light units: roundel rated with a 30-degree horizontal and 15-degree downward spread.
 - (B) Back light units: roundel rated with a 70-degree horizontal spread.
 - (C) Cantilevered front and back light units: roundel rated with a 20-degree horizontal and 32-degree downward spread.
- (4) Auxiliary Devices. The Department may authorize the installation of auxiliary signs and signals at a crossing. Such devices shall be installed so as not to obscure other crossing signs or signals at the crossing.
- (5) Advance Warning Devices:
 - (a) Train-Activated Advance Warning Device (Figure 3) is a signal that shall alternately flash two yellow lights along the highway in advance of a crossing, to provide warning of an approaching train.
 - (b) Skewed Angle Bicycle Warning sign is the skewed crossing (W10-12) sign in Section 8B.25 of the MUTCD. If used at pathway-rail grade crossings, the sign size depicted in Table 9B-1 of the MUTCD for a shared-use path shall be used.
- (6) Guardrail is as depicted in Oregon Standard Drawing No. RD445.
- (7) Curb is a standard curb as depicted in Oregon Standard Drawing No. RD700.

22 Proposed Supplement Content

23 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
24 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

25 CHAPTER 8D. FLASHING-LIGHT SIGNALS, AUTOMATIC GATES, AND TRAFFIC 26 CONTROL SIGNALS

27 Section 8D.02 Flashing-Light Signals

28 Support:

29 01 Section 8D.04 contains additional information regarding flashing-light signals at highway-LRT grade
30 crossings in semi-exclusive and mixed-use alignments.

31 **Standard:**

32 02 **If used, the flashing-light signal assembly (shown in Figure 8D-1) on the side of the highway shall**
33 **include a standard Crossbuck (R15-1) sign, and where there is more than one track, a supplemental**
34 **Number of Tracks (R15-2P) plaque, all of which indicate to motorists, bicyclists, and pedestrians the**
35 **location of a grade crossing.**

36 *Guidance:*

37 03 *The bottom of the Number of Tracks (R15-2P) plaque (when used) should be located as low as*
38 *practicable above the flashing-light backgrounds. The Crossbuck (R15-1) sign should be located just above*
39 *the Number of Tracks (R15-2P) plaque or, if no plaque is present, the bottom of the Crossbuck sign should*
40 *be located as low as practicable above the flashing-light backgrounds.*

41 Support:

42 04 Additional information regarding sizes and clearances of components used on flashing-light signals can
43 be found in Part 3 of the “2023 AREMA Communications and Signals Manual” published by the American
44 Railway Engineering and Maintenance-of-Way Association (AREMA).

45 ~~Option:~~ Standard:

46 05 **At highway-rail grade crossings, bells or other audible warning devices ~~may~~ shall be included in**
47 **the assembly and ~~may be~~ operated in conjunction with the flashing-light signals to provide additional**
48 **warning for pedestrians, bicyclists, and/or other non-motorized road users.**

49 **Standard:**

50 06 **When indicating the approach or presence of rail traffic, the flashing-light signal shall display**
51 **toward approaching highway traffic two red lights mounted in a horizontal line flashing alternately.**

52 07 **If used, flashing-light signals shall be placed to the right-hand side of approaching highway traffic**
53 **on all highway approaches to a grade crossing. They shall be located laterally with respect to the**
54 **highway in compliance with Figure 8D-1 except where such location would adversely affect signal**
55 **visibility.**

56 08 **If used at a grade crossing with highway traffic in both directions, back-to-back flashing-light**
57 **signals shall be placed on each side of the tracks. On multi-lane one-way streets and divided**
58 **highways, flashing-light signals shall be placed on the approach side of the grade crossing on both**
59 **sides of the roadway or shall be placed above the highway.**

60 09 **Each red signal unit in the flashing-light signal shall flash alternately. The number of flashes per**
61 **minute for each lamp shall be 35 minimum and 65 maximum. Each lamp shall be illuminated for**
62 **approximately the same length of time. The total time of illumination of each pair of lamps shall be**
63 **the entire operating time.**

64 09a At least one red signal unit of the entire flashing light signal system used shall be visible to
65 approaching traffic at all times when viewed from any point on the roadway within the safe stopping
66 distance. Eliminate visual obstructions, adjust the aim of the red signal units, and/or add
67 supplemental red signal units as necessary.

68 10 **Flashing-light units shall use either 8-inch or 12-inch nominal diameter lenses.**

69 *Guidance:*

70 11 *In choosing between the 8-inch or 12-inch nominal diameter lenses for use in grade crossing flashing-*
71 *light signals, consideration should be given to the principles stated in Section 4E.02.*

72 12 *If flashing-light signals are used, at least one pair of flashing lights should be provided for each*
73 *approach lane of the roadway.*

74 13 *The center-to-center distance between the two red lights in a flashing-light unit should be*
75 *approximately 30 inches.*

76 14 *The mounting height of the flashing-light units, measured from the center of the flashing-light unit*
77 *housing to the elevation of the crown of the roadway, should be between 8 feet and 9 feet.*

78 15 *The top of the support pole foundation should be no more than 4 inches above the surface of the ground*
79 *and should be at the same elevation as the crown of the roadway.*

80 **Standard:**

81 16 **Grade crossing flashing-light signals shall operate at a low voltage using storage batteries either**
82 **as a primary or stand-by source of electrical energy. Provision shall be made to provide a source of**
83 **energy for charging batteries.**

84 *Option:*

85 17 *Additional flashing-light signals may be mounted on the same supporting post and directed toward*
86 *vehicular traffic approaching the grade crossing from other than the principal highway route, such as where*
87 *there are approaching routes on highways closely adjacent to and parallel to the track(s).*

88 *Guidance:*

89 18 *Where the storage distance for vehicles approaching a grade crossing is less than a design vehicle*
90 *length, the Diagnostic Team should consider providing additional flashing-light signals aligned toward the*
91 *movement turning toward the grade crossing.*

92 19 *The Diagnostic Team should consider the use of additional flashing-light signals to provide*
93 *supplemental warning to pedestrians, especially on one-way streets and divided highways.*

94 **Standard:**

95 20 **References to lenses in this Section shall not be used to limit flashing-light signal optical units to**
96 **incandescent lamps within optical assemblies that include lenses.**

97 Support:

98 21 Research has resulted in flashing-light signal optical units that are not lenses, such as, but not limited to,
99 light-emitting diode (LED) flashing-light signal modules.

100 Option:

101 22 If a Diagnostic Team determines that it is appropriate, the flashing-light signals may be installed on
102 overhead structures or cantilevered supports as shown in Figure 8D-1 where needed for additional
103 emphasis, or for better visibility to approaching traffic, particularly on multi-lane approaches or highways
104 with profile restrictions.

105 23 If it is determined by a Diagnostic Team that one flashing-light signal on the cantilever arm is not
106 sufficiently visible to road users, one or more additional flashing-light signals may be mounted on the
107 supporting post and/or on the cantilever arm.

108 **Standard:**

109 24 **Breakaway or frangible bases shall not be used on the supporting posts for overhead structures or**
110 **cantilevered arms that support overhead flashing-light signals.**



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 8D.15 – Use of LRT Signals for Control of LRT Vehicles at Highway-LRT Grade Crossings	Last Revised January 03, 2025	Proposal No. 11807
Supplement Team 18-Rall	Status OTCDC Review – Round 2	Type Carryover
Summary (2-3 sentences) This proposes to add LRT/BRT signals for existing legacy installations.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 **Problem**

2 Several Oregon transit agencies have transit signals that were developed prior to their inclusion in the
3 MUTCD. The Oregon Supplement should provide information for agencies with existing legacy
4 LRT/BRT system signal indications.

5 **Discussion**

6 When existing legacy LRT/BRT indications need replacement, replacement according to Figure 8D-3
7 should be considered when feasible. While national uniformity is important, in this case it has minimal
8 benefit as these signals apply only to trained professional drivers that have been trained specifically by
9 their LRT/BRT agency and only may operate within their LTR/BRT agency boundaries. The legacy
10 indications are also able to show different messages that are not possible to convey with the indications
11 shown in the Figure 8D-3 in the 11th Edition of the MUTCD.

12 The cost to make these changes at the end of service life is significant given the current budget issues of
13 public agencies. The benefit cost ratio is too low to justify making a change to existing assets that are
14 performing successfully. The proposed language is currently in the Oregon Supplement to the 2009
15 MUTCD.

16 Agencies with no existing legacy LTR/BRT indications should use the Figure 8D-3, as per 8D.15p05.

17 **Proposed Supplement Content**

18 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
19 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

20 **CHAPTER 8D. FLASHING-LIGHT SIGNALS, AUTOMATIC GATES, 21 AND TRAFFIC CONTROL SIGNALS**

22 **Section 8D.15 Use of LRT Signals for Control of LRT Vehicles at Highway-LRT Grade Crossings**

23 Option:

24 01 LRT signal indications may be used at grade crossings and at intersections in mixed-use alignments in
25 conjunction with standard traffic control signals where special LRT signal phases are used to accommodate
26 turning LRT vehicles or where additional LRT clearance time is desirable.

27 02 LRT signal indications may be used at intersections where special signal phases are used for bus
28 movements.

29 **Standard:**

30 03 **If the LRT crossing control is separate from the intersection control, the two shall be
31 interconnected. The LRT signal phase shall not be terminated until after the LRT vehicle has cleared
32 the crossing or intersection.**

33 04 **If a separate set of standard traffic control signal indications (red, yellow, and green circular and
34 arrow indications) is used to control LRT movements, the indications shall be positioned so they are
35 not visible to motorists, pedestrians, and bicyclists (see Section 4D.06).**

36 *Guidance:*

37 05 *If a signal face used to control LRT movements cannot be positioned where the indications are not
38 visible to road users, the LRT signal indications shown in Figure 8D-3 should be used.*

39 Option:

40 05a LRT/BRT signal indications shown in Figures 8D-3(OR) through 8D-7(OR) may only be used by
41 Agencies already operating these existing legacy LRT/BRT signal indications.

42 Support:

43 05b Figures 8D-3(OR) through 8D-7(OR) illustrate TriMet standards for LRT traffic control that were
44 developed prior to their inclusion in the MUTCD, follow national LRT standards, and are used extensively
45 throughout the Portland Metropolitan area. The white flashing triangle used per the 2009 MUTCD Figure
46 8C-3 also remains an acceptable symbol to use for existing legacy systems. However, replacement of
47 existing legacy signal indications according to figure 8D-C should be considered when feasible.

48 **Standard:**

49 06 **If special LRT signal indications such as those shown in Figure 8D-3 are used, the color of the**
50 **signal indications shall be white.**

51 Option:

52 07 *If used, individual LRT signal sections may be displayed to form clustered signal faces or multiple LRT*
53 *signal indications may be displayed in an individual housing.*

54 Guidance:

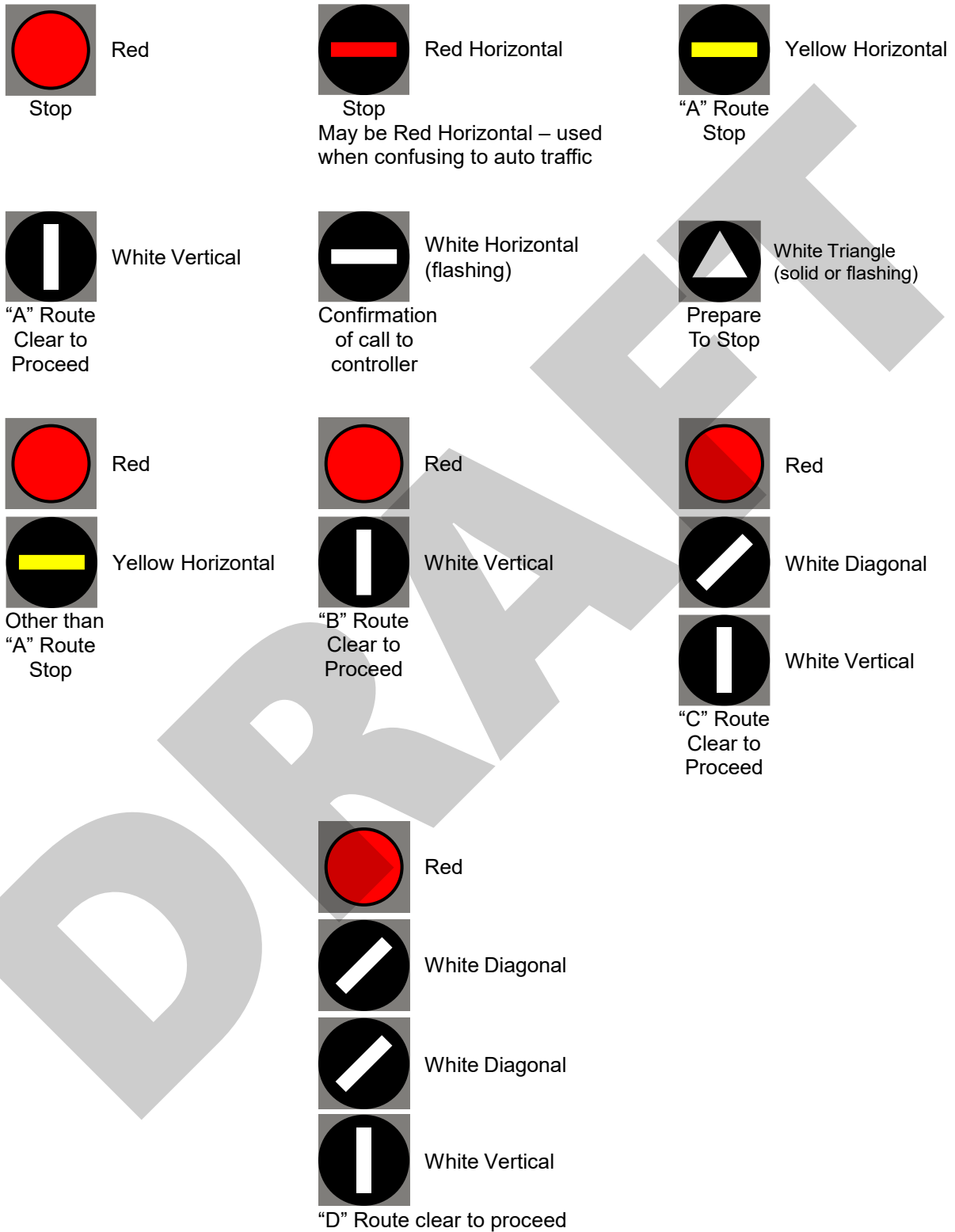
55 08 *LRT signal faces should be located at least 3 feet from the nearest highway traffic signal face for the*
56 *same approach measured either horizontally perpendicular to the approach between the centers of the*
57 *signal faces or vertically from the center of the lowest signal indication of the top signal face to the center*
58 *of the highest signal indication of the bottom signal face.*

59 Support:

60 09 Section 4F.18 contains information about the use of the LRT signal indications shown in Figure 8D-3
61 for the control of exclusive bus movements at “queue jumper lanes” and for the control of exclusive bus
62 rapid transit movements on mixed-use alignments.

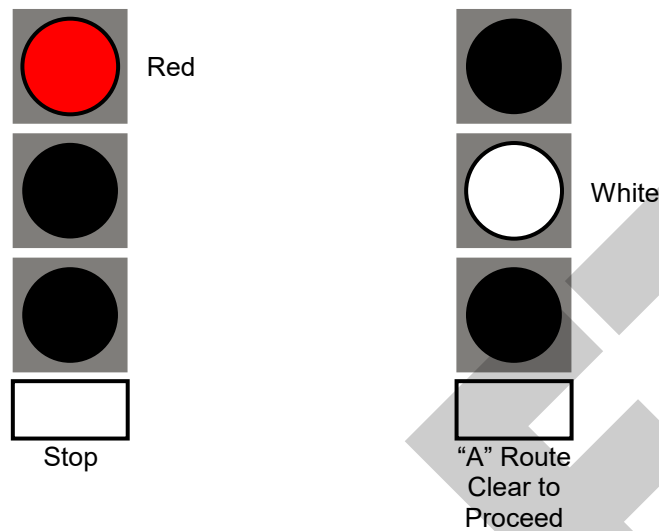
63

Figure 8D-3(OR). Legacy Light Rail Transit and BRT Signal Indications



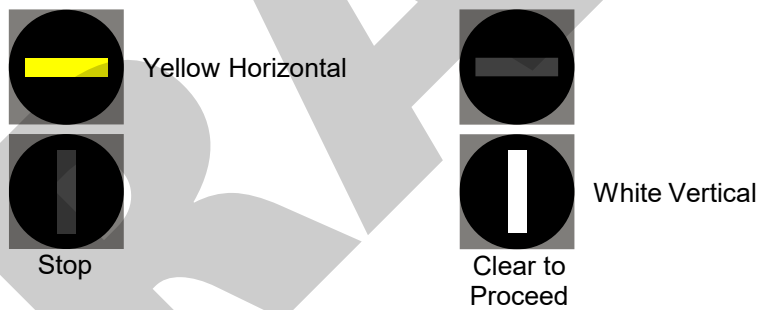
64

Figure 8D-4(OR). Legacy Signals M176A, M176B, M176C



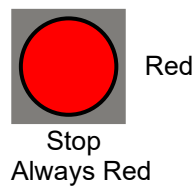
65

Figure 8D-5(OR). Legacy Preempt Signals



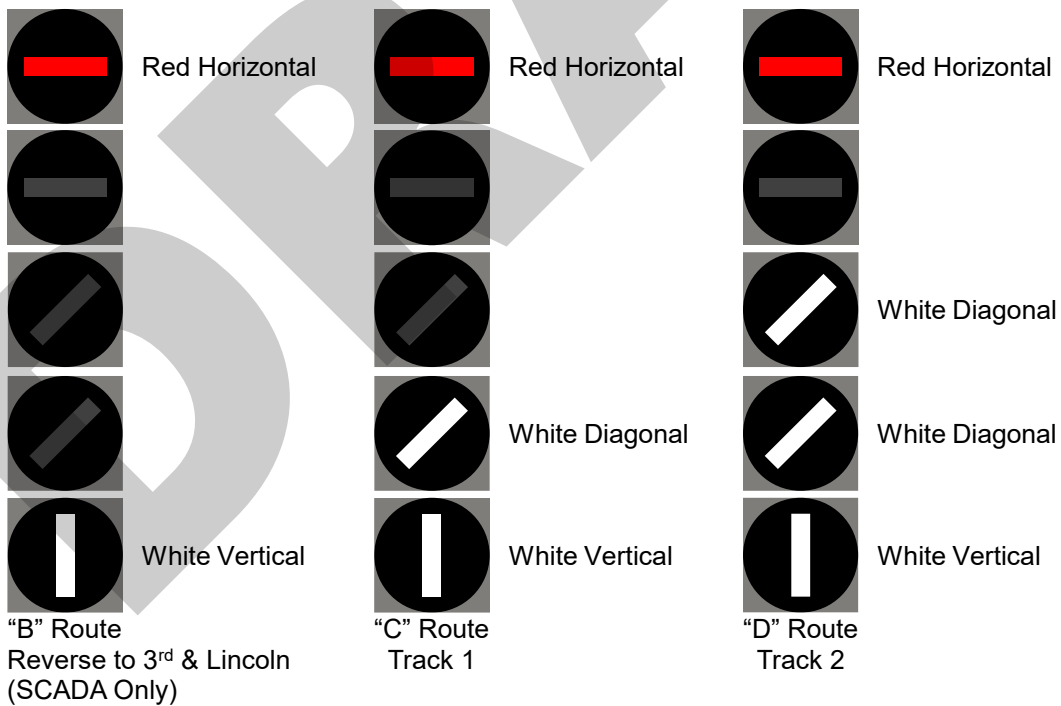
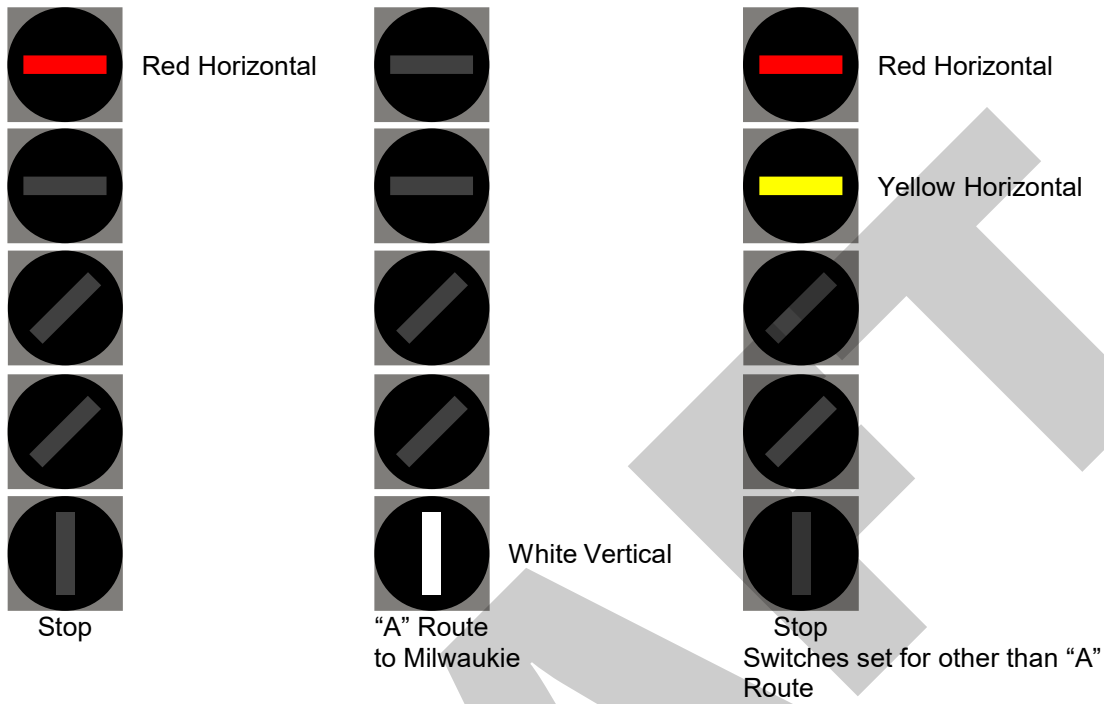
66

Figure 8D-6(OR). Legacy Dwarf Signal M168



67

Figure 8D-7(OR). Legacy Signal M164



68



**OREGON TRAFFIC CONTROL DEVICES COMMITTEE
OREGON SUPPLEMENT TO THE MUTCD 11th EDITION
SUPPLEMENT PROPOSAL**

MUTCD 11th Ed. Section(s) Affected 8E.03 – Pathway and Sidewalk Signs and Markings & 8E.07 – Active Traffic Control Systems	Last Revised January 03, 2025	Proposal No. 11808
Supplement Team 8-Rall	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) This proposes modifications to use pedestrian-scaled signs and flashing red lights that are intended only to be viewed by sidewalk users at grade crossings.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none"> • Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern. • Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study. • Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.” • Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon. 		

1 **Problem**

2 Railroad owners tend to discourage or try to deny use of smaller scale signs and flashing red lights
3 intended for pedestrians only, citing maintenance stocking concerns. The Oregon Supplement should
4 provide more prescriptive information about grade crossing signs and flashing red lights that only
5 sidewalk user’s view.

6 **Discussion**

7 Smaller scale signs and flashing red lights are more visible and easier for pedestrian to read and react
8 to than the larger standard size signs for vehicles traveling at speed. The smaller scale results in an
9 overall lower device height that is closer to the pedestrian eye level. Therefore, using the proper scale
10 for pedestrian devices is expected to improve pedestrian compliance and safety. In addition, the misuse
11 of vehicle sized signs for pedestrian paths near vehicle lanes could result in confusing/conflicting sign
12 messages to the driver which can lead to disrespect of these signs. See the picture below illustrating this
13 issue.

14 **Figure 1: Example Vehicle-Size Signs for Pedestrians at a Grade Crossing**



The yield sign is intended only for pedestrians on the sidewalk, but given the scale of the sign and placement, a driver could easily think this sign is for them. The two crossbuck sign messages conflict, leaving the driver unsure of the correct response. Using smaller scale pedestrian signs in this situation would convey a clearer message to each specific user.

15

16 Proposed Supplement Content

17 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
18 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

19 **CHAPTER 8E. PATHWAY AND SIDEWALK GRADE CROSSINGS**

20 **Section 8E.03 Pathway and Sidewalk Grade Crossing Signs and Markings**

21 **Standard:**

22 01 **Pathway and sidewalk grade crossing signs shall be standard in shape, legend, and color.**

23 02 **The ~~minimum~~ sizes of sidewalk grade crossing signs that are intended to be viewed only by**
24 **sidewalk users and of pathway grade crossing signs shall be the exact size as shown in the shared-use**
25 **path column in Table 9A-1 (Delete “minimum” in the Table 9A-1 title when applying this standard).**

26 *Guidance:*

27 03 *No portion of a traffic control device or its support should protrude into the pathway or sidewalk grade*
28 *crossing. Sidewalk and pathway grade crossing traffic control devices should be located such that all*
29 *physical features of the device, including the support hardware, conform to clearance requirements*
30 *provided by the railroad company and/or transit agency, and the regulatory agency with statutory authority*
31 *(if applicable).*

32 04 *The minimum mounting height for post-mounted signs adjacent to pathways and sidewalks should be 4*
33 *feet, measured vertically from the bottom of the sign to the elevation of the near edge of the pathway or*
34 *sidewalk surface (see Figure 9A-1).*

35 05 *If overhead traffic control devices are placed above pathways, the clearance from the bottom of the*
36 *device to the pathway surface directly under the sign or device should be at least 8 feet.*

37 06 *If overhead traffic control devices are placed above pathways that are used by equestrians, the*
38 *clearance from the bottom of the device to the pathway surface directly under the sign or device should be*
39 *at least 10 feet.*

40 **Standard:**

41 07 **If overhead traffic control devices are placed above sidewalks, the clearance from the bottom of**
42 **the device to the sidewalk surface directly under the sign or device shall be at least 7 feet.**

43 *Guidance:*

44 08 *Traffic control devices mounted adjacent to pathways at a height of less than 8 feet measured vertically*
45 *from the bottom of the device to the elevation of the near edge of the pathway surface should have a*
46 *minimum lateral offset of 2 feet from the near edge of the device to the near edge of the pathway (see Figure*
47 *9A-1).*

48 09 *If pathway users include those who travel faster than pedestrians, such as bicyclists or skaters, warning*
49 *signs should be installed in advance of the pathway grade crossing (see Figure 8E-3).*

50 **Option:**

51 10 **The Skewed Crossing (W10-12) sign (see Section 8B.22) may be used at a skewed pathway or sidewalk**
52 **grade crossing to warn pathway or sidewalk users that the tracks are not perpendicular to the pathway or**
53 **sidewalk.**

54 11 **The LOOK (R15-8) sign (see Figure 8B-1) may be used at a pathway or sidewalk grade crossing to**
55 **inform pathway or sidewalk users to look in both directions prior to crossing the track(s).**

56 *Guidance:*

57 12 *If a LOOK (R15-8) sign is used at a pathway or sidewalk grade crossing, it should be mounted on a*
58 *separate post that is farther from the pathway or sidewalk than the Crossbuck sign or Crossbuck Assembly.*

59 **Section 8E.07 Active Traffic Control Systems**

60 **Standard:**

61 01 **Except as provided in Paragraph 5 of this Section, at pathway-LRT and sidewalk-LRT grade**
62 **crossings where LRT operating speeds on a semi-exclusive alignment exceed 25 mph, active traffic**
63 **control systems shall be used.**

64 02 **Except as provided in Paragraph 5 of this Section, at pathway-LRT and sidewalk-LRT grade**
65 **crossings where LRT operating speeds on a semi-exclusive alignment exceed 40 mph, active traffic**
66 **control systems, including automatic gates, shall be used.**

67 03 **If used at a pathway or sidewalk grade crossing, an active traffic control system (see Section**
68 **8D.01) shall include flashing-light signals with a maximum diameter of 8 inches (see Figure 8E-7) on**
69 **each approach to the crossing.**

70 *Guidance:*

71 04 *If used at a pathway or sidewalk grade crossing, an active traffic control system (see Section 8D.01)*
72 *should include an audible device such as a bell that is operated in conjunction with the flashing-light*
73 *signals.*

74 **Option:**

75 05 **Flashing-light signals, bells, and other audible warning devices may be omitted at pathway or sidewalk**
76 **grade crossings that are located within 25 feet of an active warning device at a grade crossing that is**
77 **equipped with those devices.**

78 06 **Additional pairs of flashing-light signals, bells, or other audible warning devices may be installed on**
79 **the active traffic control devices at a grade crossing for pathway or sidewalk users approaching the grade**
80 **crossing from the back side of those devices.**

81 *Guidance:*

82 07 *Where railroad or LRT tracks in a semi-exclusive alignment are parallel and immediately adjacent to a*
83 *roadway and if adequate space exists, a pedestrian refuge area or island should be provided between the*
84 *tracks and the roadway to permit pedestrians to stand clear of the tracks while waiting to cross the roadway*
85 *and to stand clear of the roadway while waiting to cross the tracks. If a pedestrian refuge area or island is*
86 *provided at a signalized crossing of the roadway, additional pedestrian features (see Chapter 4I), such as*
87 *signal heads, signing, and detectors, should be installed in the refuge area or on the island.*



**OREGON TRAFFIC CONTROL DEVICES COMMITTEE
OREGON SUPPLEMENT TO THE MUTCD 11th EDITION
SUPPLEMENT PROPOSAL**

MUTCD 11th Ed. Section(s) Affected 8B.04 – Crossbuck Assemblies with YIELD or STOP Signs at Passive Grade Crossings	Last Revised January 03, 2025	Proposal No. 11809
Supplement Team 8-Rall	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) This proposes correcting a suspected error/oversight in the 11th Edition of the MUTCD to ensure proper application of a standard.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none"> • Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern. • Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study. • Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.” • Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon. 		

1 **Problem**

2 Figure 8B-2 in the 11th Edition is not clear on whether a reflective strip is required or optional
3 (regardless of the color used).

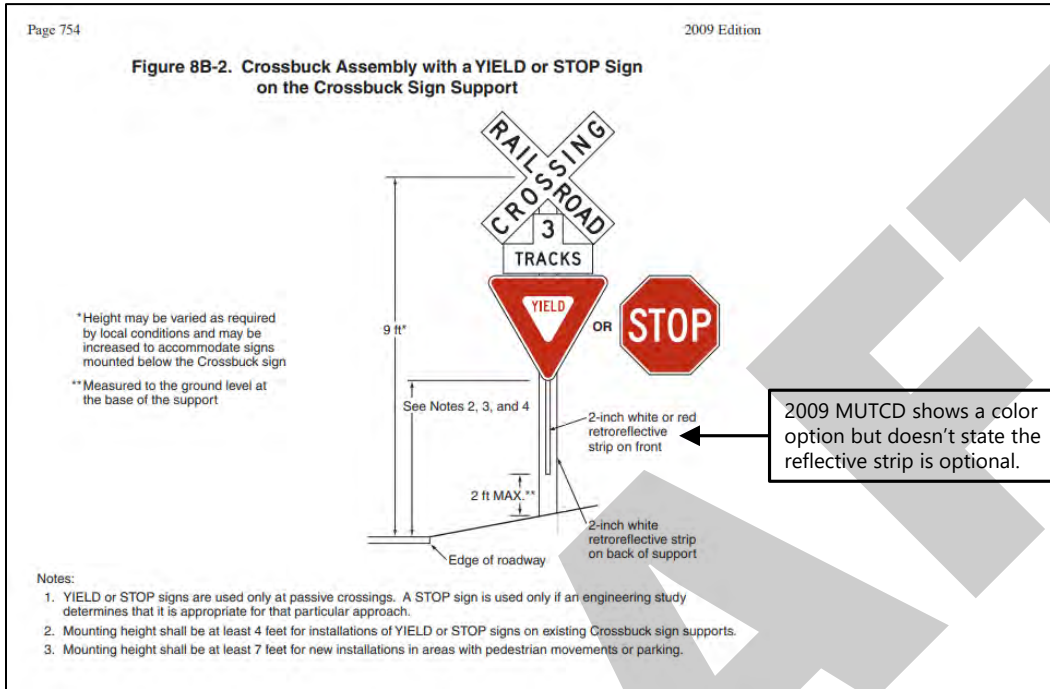
4 **Discussion**

5 Oregon believes the intent of Section 8B.04 Paragraph 19 is to only offer a choice on the color of
6 reflective strip used (red or white) and NOT a choice for omitting the reflective strip altogether.
7 Uniformity and enhanced conspicuity of the sign support for crossbuck signs at ALL passive grade
8 crossings has been an important feature based on a review of past MUTCD history:

- 9
- 2009 MUTCD Section 8B.04 Paragraph 17 is a standard had the same language as the 11th Edition
10 Section 8B.04 Paragraph 19. However, the corresponding 2009 MUTCD Figure 8B-2 clearly
11 showed the requirement of a red or white reflective strip on the front.
 - The [federal register](#) for the 11th Edition does not mention any intentional changes or reasons for
12 adding the “optional” to Figure 8B-2.
 - The [federal register](#) for the Millennium Edition added the requirement for installation of a
13 white reflective strip for ALL crossbuck sign supports at passive grade crossings.
14
15

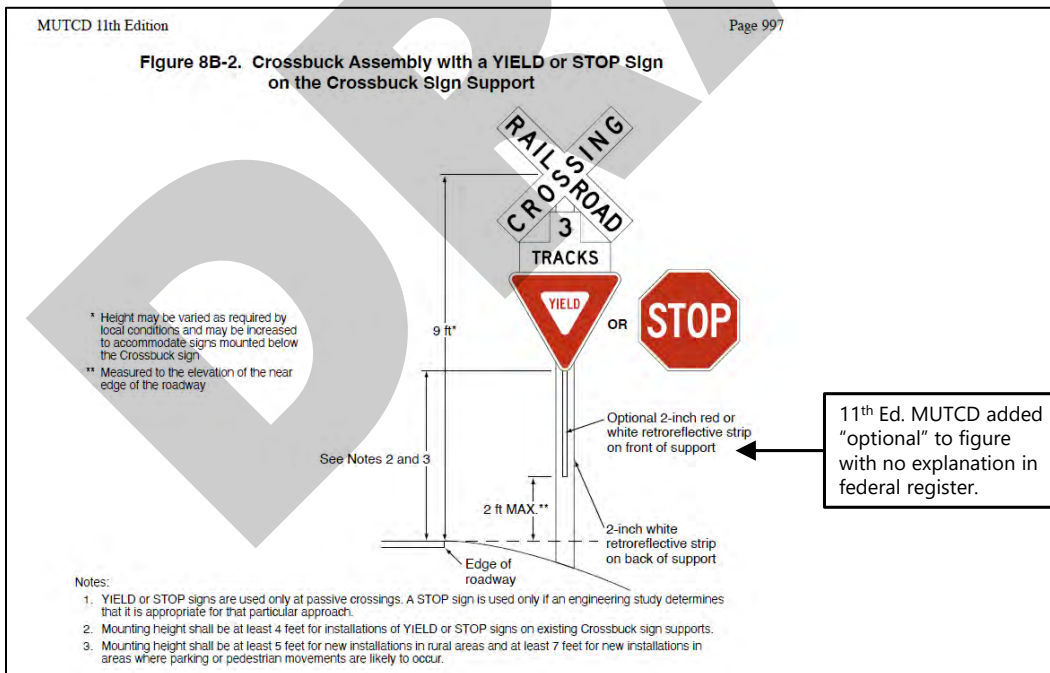
16 Requiring the reflective strip for all crossbuck sign supports promotes uniformity and enhances
17 conspicuity of the traffic control device which is expected to result in improved compliance and safety.

18 **Figure 1: MUTCD 2009 Edition, Figure 8B-2**



19

20 **Figure 2: MUTCD 11th Edition, Figure 8B-2**



21

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 8B. SIGNS

Section 8B.04 Crossbuck Assemblies with YIELD or STOP Signs at Passive Grade Crossings

[No changes proposed in Paragraphs 01 through 16.]

Standard:

17 A vertical strip of retroreflective white material, not less than 2 inches in width, shall be used on each Crossbuck support at passive grade crossings for the full length of the back of the support from the Crossbuck sign or Number of Tracks plaque to within 2 feet above the near edge of the roadway, except as provided in Paragraph 18 of this Section. A white retroreflective strip wrapped around a round support for the full length of the support from the Crossbuck Sign or Number of Tracks plaque to within 2 feet above the near edge of the roadway shall satisfy this requirement as long as the round support has an outside diameter of at least 2 inches.

Option:

18 The vertical strip of retroreflective material may be omitted from the back sides of Crossbuck sign supports installed on one-way streets and at pathway or sidewalk grade crossings (see Section 8E.05).

Standard:

19 If a YIELD or STOP sign is installed on the same support as the Crossbuck sign, a vertical strip of red (see Section 2A.11) or white retroreflective material that is at least 2 inches wide ~~may~~ shall be used on the front of the support from the YIELD or STOP sign to within 2 feet above the near edge of the roadway.

Standard:

20 If a Crossbuck sign support at a passive grade crossing does not include a YIELD or STOP sign (either because the YIELD or STOP sign is placed on a separate support or because a YIELD or STOP sign is not present on the approach), a vertical strip of retroreflective white material, not less than 2 inches in width, shall be used for the full length of the front of the support from the Crossbuck sign or Number of Tracks plaque to within 2 feet above the near edge of the roadway. A white retroreflective strip wrapped around a round support for the full length of the support from the Crossbuck Sign or Number of Tracks plaque to within 2 feet above the near edge of the roadway shall satisfy this requirement as long as the round support has an outside diameter of at least 2 inches.

21 At all grade crossings where YIELD or STOP signs are installed, Yield Ahead (W3-2) or Stop Ahead (W3-1) signs shall also be installed if the criteria for their installation in Section 2C.35 is met.

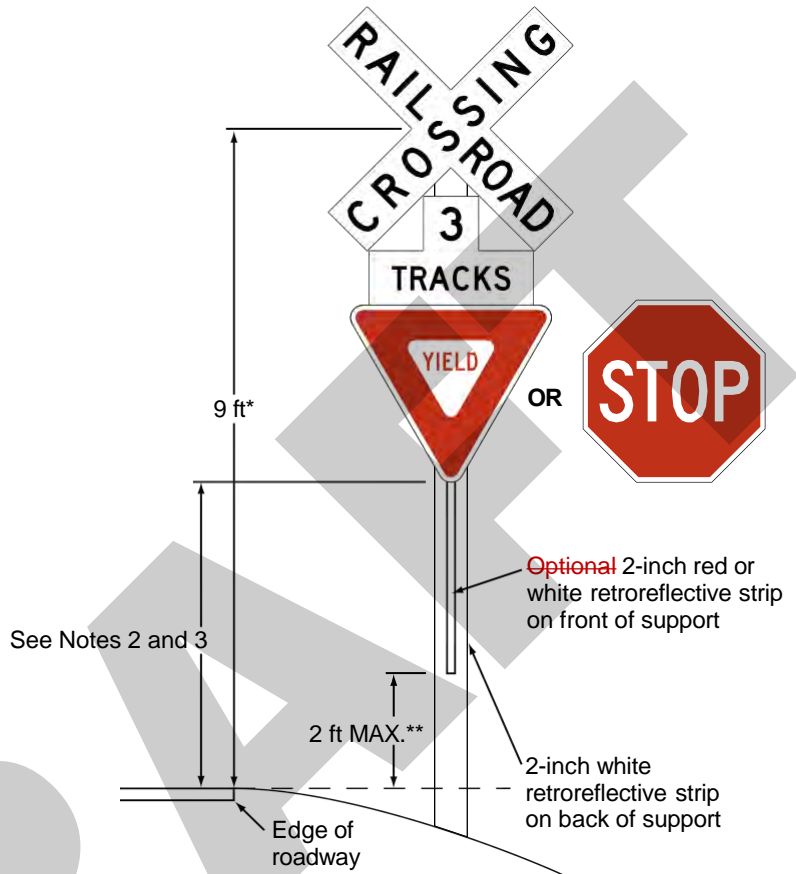
Support:

22 Section 8C.03 contains provisions regarding the use of stop lines or yield lines at grade crossings.

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Figure 8B-2. Crossbuck Assembly with a YIELD or STOP Sign on the Crossbuck Sign Support

- * Height may be varied as required by local conditions and may be increased to accommodate signs mounted below the Crossbuck sign
- ** Measured to the elevation of the near edge of the roadway



Notes:

1. YIELD or STOP signs are used only at passive crossings. A STOP sign is used only if an engineering study determines that it is appropriate for that particular approach.
2. Mounting height shall be at least 4 feet for installations of YIELD or STOP signs on existing Crossbuck sign supports.
3. Mounting height shall be at least 5 feet for new installations in rural areas and at least 7 feet for new installations in areas where parking or pedestrian movements are likely to occur.

59



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 8B.06 – Grade Crossing Advance Warning Signs, 8C.02 – Grade Crossing Pavement Markings 8C.03 – Stop and Yield Lines	Last Revised January 03, 2025	Proposal No. 11810
Supplement Team 8-Rall	Status FHWA Review – Round 1	Type Modification
Summary (2-3 sentences) Placement of Yield Ahead (W3-2) or Stop Ahead (W3-1) in conjunction with a grade crossing advance warning sign (W10-1) – replacing Figure 8C-1 with Figure 8C-1(OR). This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005. The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement: <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 It is necessary to retain the placement of the STOP AHEAD (W3-1) or YIELD AHEAD (W3-2) signs as
3 shown in Figure 8B-06(OR) and stated in OAR 741-110-0040(5) as this sign placement conflicts with the
4 MUTCD figure 8C-1.

OAR 741-110-0040 Location of Protective Devices

[Sections (1) thru (4) not shown.]

(5) STOP AHEAD (W3-1 or W3-1a) signs, YIELD AHEAD (W3-2 or W3-2a) signs and train-activated advance warning signals shall be located not less than 100 feet in advance of the advance warning sign. See Figure 3.

[Sections (6) thru (9) not shown.]

5 Discussion

6 Figure 8B-06(OR) in the 2009 Oregon Supplement to the MUTCD has been used in Oregon for 25+
 7 years. Comparing MUTCD 11th Edition Figure 8C-1 to Figure 8B-06(OR) showed four differences,
 8 highlighted in yellow in Table 1. This supplement proposal only addresses Design Standard 4 and 4a,
 9 but the complete comparison shown in Table 1 and following commentary on each design standard is
 10 presented to document the decision making process for the proposed 8C-1(OR) figure.

11 **Table 1: Differences between 2009 Figure 8B-6(OR) and 11th Ed. Figure 8C-1**

Design Standard	Figure 8B-6(OR) (2009 Supplement)	Figure 8C-1 (11 th Edition)	Difference?	Retain Figure 8B-6(OR) standard?
1. Stop line placement	12' min. from nearest rail or 1' in advance of gate	15' min from nearest rail or approximately 8' in advance of gate	Yes	No – OAR will be changed
2. W10-1 sign placement from stop line	Based on safe stopping distances (SSD) from AASHTO	Refers to MUTCD table 2C-3 which now uses the same AASHTO SSD distance (for the potential stop condition)	No	N/A
3. RxR pavement marking symbol placement	24" white bar at the top of the pavement marking symbol should be directly opposite the W10-1 sign	Any portion of the pavement marking symbol should be directly opposite the W10-1 sign	Yes	No
4. W3-1 or W3-2 sign placement	Placed 100' min. in advance of the W10-1 sign	Refers to MUTCD table 2C-3 for the potential stop condition (AASHTO SSD from the stop line). The W10-1 sign would then be placed in advance of the W3-1 or W3-2 sign (note 6 of Table 2C-6 recommends 100' min sign spacing)	Yes	Yes – see proposed supplement content
4a. Centerline no-pass striping	Centerline no-pass striping is required for the approach to a grade crossing, but MUTCD does not give explicit information on where the no-pass striping should start. OAR chapter 741 is also silent on this.	Centerline no-pass striping is required for the approach to a grade crossing, but it does not give explicit information on where the no-pass striping should start. OAR chapter 741 is also silent on this. The standard ODOT practice will now be included in the proposed supplement (see the commentary on design standard 4 and 4a below)	N/A	N/A – see proposed supplement content
5. Dynamic envelope distance from tracks	6'	Refers to MUTCD figure 8C-3: In accordance with the railroad company or transit agency requirements	Yes	No

12 **Design Standard 1 – Stop Line Placement**

13 No documentation was found for the basis of the stop line placement shown in Figure 8B-06(OR).
14 Several staff recall the reasoning may have been an attempt to increase the sight distance along the
15 tracks for a driver stopped at the stop line looking for an approaching train, especially when vegetation
16 is close to the road or not maintained. However, the MUTCD stop line placement has been in effect for
17 a long time and used successfully in other states. In addition, the MUTCD stop line placement gives
18 drivers a better view of the railroad flashing lights. Therefore, we found no compelling reasons to
19 continue using stop line placement as shown in Figure 8B-06(OR) for future installations.

20 **Design Standard 2 – W10-1 Sign Placement**

21 No difference.

22 **Design Standard 3 – RxR Pavement Marking Placement**

23 The MUTCD provides more flexibility in the placement of the RxR pavement marking symbol than
24 Figure 8B-06(OR) which was deemed acceptable for future installations.

25 **Design Standard 4 and 4a – W3-1 or W3-2 Sign Placement and Centerline No-Pass 26 Striping**

27 Again, no documentation was found for the placement of the W3-1 or W3-2 signs as shown in Figure
28 8B-06(OR). There are approximately 805 existing assets that would require swapping the W3-1 or W3-2
29 sign with the W10-1 sign. This then requires moving the existing railroad pavement marking symbol to
30 the new W10-1 sign location and extending the centerline no-pass striping to the new location of the
31 W10-1 sign.

32 Note the MUTCD states in Section 3B.03 Paragraph 02 that no passing zone marking shall be used on
33 approaches to grade crossings (see Section 8C.02), but nowhere in the remainder of the MUTCD,
34 Section 8C.02 included, does the MUTCD specify where the no-pass striping should start for an
35 approach to a grade crossing. OAR Chapter 741 also does not include a specific OAR for the placement
36 of the centerline no-pass striping.

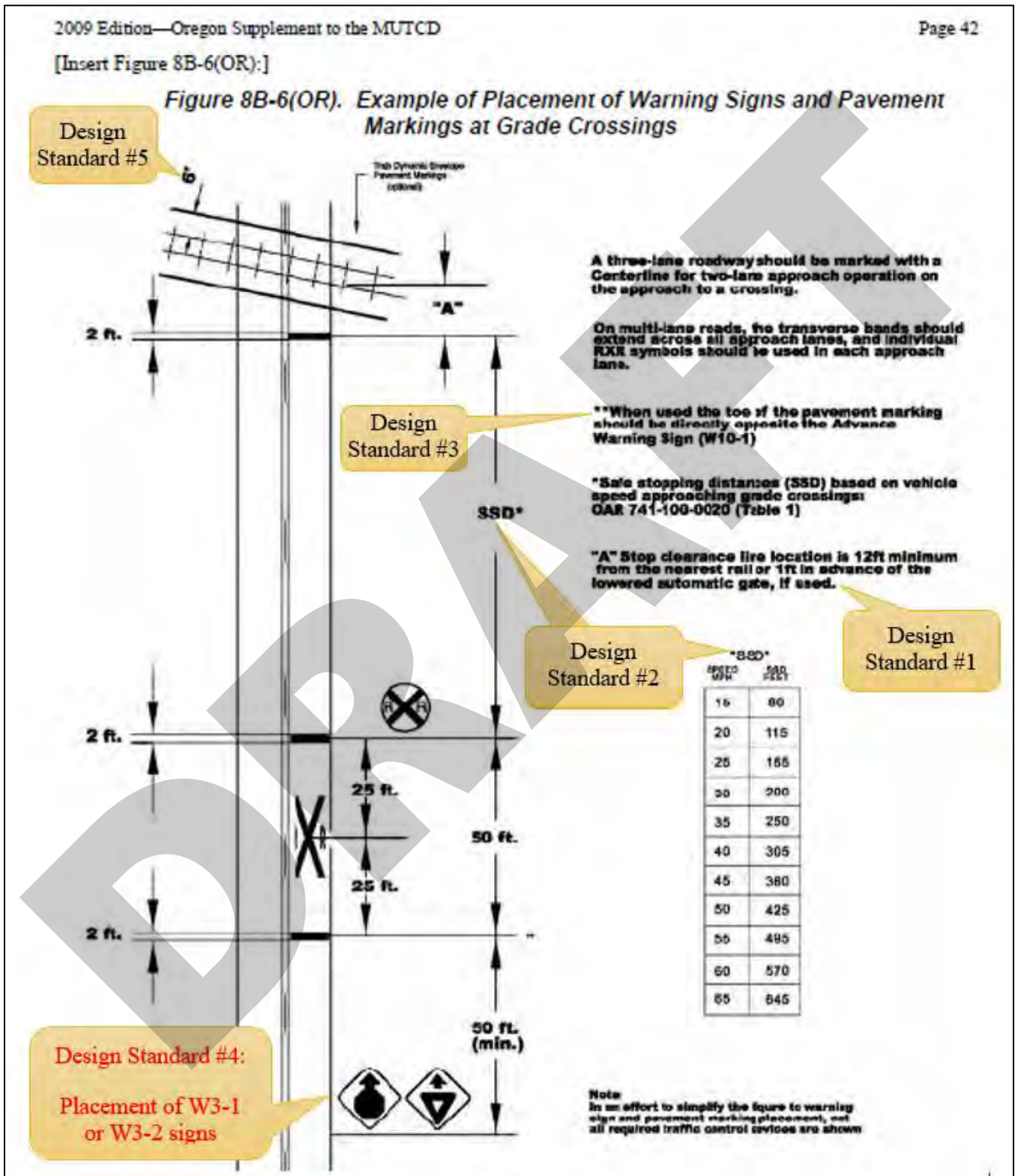
37 However, ODOT has a standard for the no-pass striping for an approach to a grade crossing in the
38 [ODOT Traffic Line Manual](#) Figure 510-B that requires the no-pass centerline striping extend 10 feet
39 beyond the RxR pavement marking placement, which coincides with the W10-1 sign placement. This
40 ODOT standard practice ensures that all advance warning pavement markings and signs associated
41 with the rail crossing are located together to provide a strong, cohesive message to the driver. As such,
42 this no-pass striping standard is now included on the proposed Figure 8C-1(OR) and should result in
43 increased uniformity and improved compliance and safety.

44 The work described in the previous paragraphs to swap sign locations and extend the no-passing
45 centerline striping is estimated to be approximately \$4,500 per asset, for a total of \$3.6 million to
46 address all assets. While national uniformity is important, in this case it has minimal benefit as there is
47 no data to show swapping the sign location results in an improvement and drivers would likely not
48 notice or remember a difference in the order of these signs. The cost to make these changes at the end of
49 service life is significant given the current budget issues of public agencies. The benefit cost ratio is too
50 low to justify making a change to existing assets that are performing successfully.

51 **Design Standard 5 – Dynamic Envelope Distance**

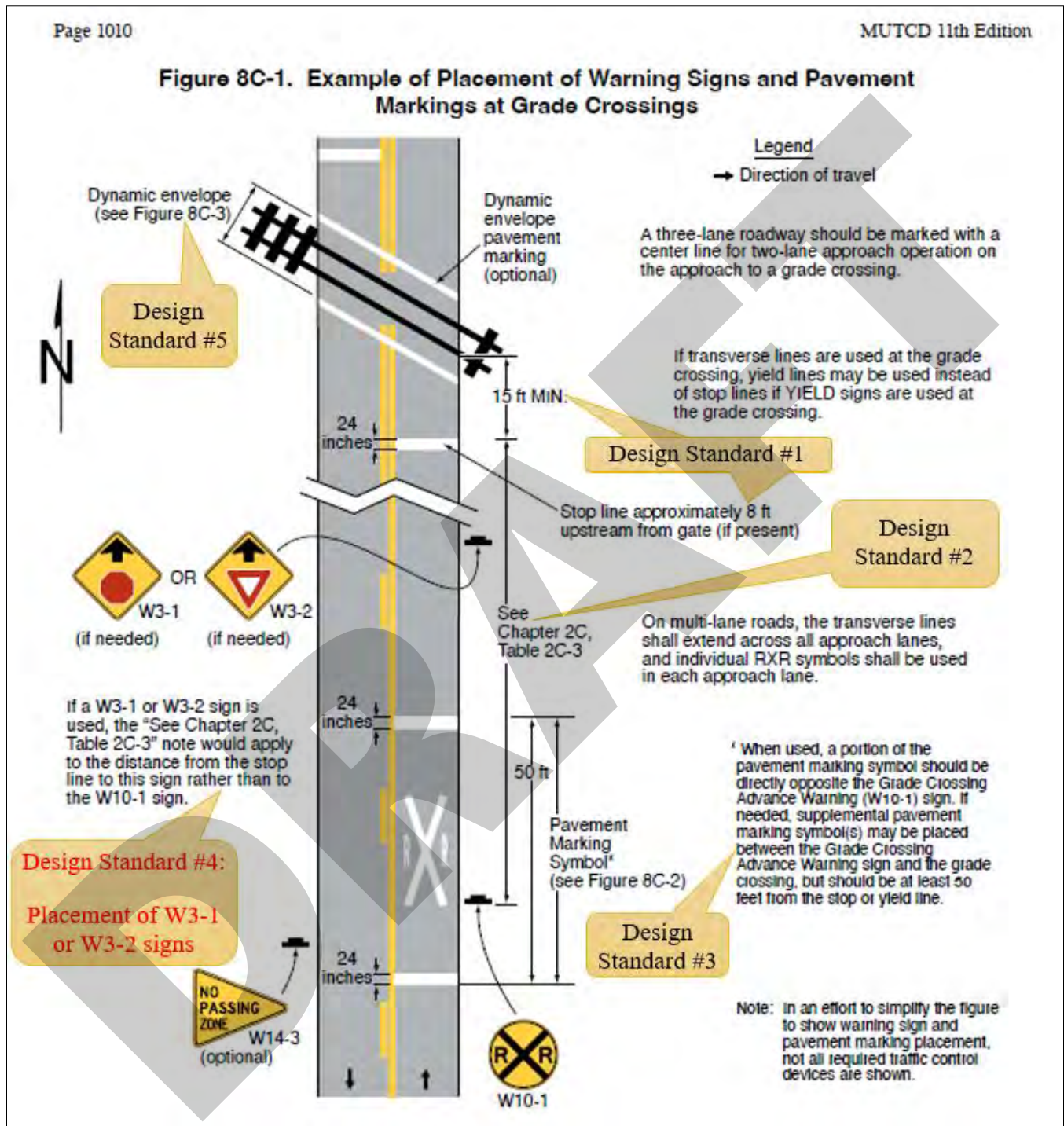
52 The dynamic envelope marking 6 feet from the tracks appears to be a typical distance used (e.g., 2009
53 MUTCD Figure 8B-8 states this value). The 11th Edition MUTCD Figure 8C-3 now provides more
54 accurate and flexible guidance which was deemed acceptable for future installations.

55 **Figure 1: Notes on 2009 Oregon Supplement Figure 8B-6(OR)**



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57 **Figure 2: Notes on 11th Edition Figure 8C-1**



58

59 Proposed Supplement Content

60 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
61 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

62 CHAPTER 8B. SIGNS

63 Section 8B.06 Grade Crossing Advance Warning Signs (W10-1 through W10-4)

64 Standard:

- 65 01 A Grade Crossing Advance Warning (W10-1) sign (see Figure 8B-4) shall be used on each
66 highway in advance of every grade crossing, except in the following circumstances:
- 67 A. On an approach to a grade crossing from an intersection with a parallel highway if the
68 distance from the nearest rail of the tracks to the edge of the parallel roadway is less than 100
69 feet and W10-2, W10-3, or W10-4 signs are used on the approaches of the parallel highway
70 (see Paragraph 5 of this Section);
 - 71 B. On low-volume, low-speed highways crossing minor spurs or other tracks that are
72 infrequently used and road users are directed by an authorized person on the ground to not
73 enter the crossing at all times that approaching rail traffic is about to occupy the crossing;
 - 74 C. In business or commercial areas where active grade crossing traffic control systems are in
75 use;
 - 76 D. Where physical conditions do not permit even a partially effective display of the sign; or
 - 77 E. At highway-LRT grade crossings where Crossbuck signs are not used (see Section 8B.03).

78 02 The placement of the Grade Crossing Advance Warning sign shall be in accordance with Section
79 2C.04 and Table 2C-3.

80 03 If a YIELD or STOP sign is present at a passive grade crossing, a Yield Ahead (W3-2) or Stop
81 Ahead (W3-1) Advance Warning sign shall also be installed if the criteria for their installation given
82 in Section 2C.35 is met. If a Yield Ahead or Stop Ahead sign is installed on the approach to the
83 crossing, the W10-1 sign shall be installed ~~upstream~~ downstream from the Yield Ahead or Stop Ahead
84 sign. The Yield Ahead or Stop Ahead sign shall be located in accordance with ~~Table 2C-3~~ Figure 8C-
85 1(OR). The minimum distance between the signs shall be in accordance with Section 2C.04 and Table
86 2C-3.

87 Option:

88 04 On divided highways and one-way streets, an additional W10-1 sign may be installed on the left-hand
89 side of the roadway.

90 Standard:

91 05 If the distance between the tracks and a parallel highway, from the nearest rail of the tracks to
92 the edge of the parallel roadway, is less than 100 feet, a W10-2, W10-3, or W10-4 sign (see Figure 8B-
93 4) shall be installed on each approach of the parallel highway to warn road users making a turn that
94 they will encounter a grade crossing soon after making a turn, and a W10-1 sign for the approach to
95 the tracks shall not be required to be between the tracks and the parallel highway.

96 06 **If the W10-2, W10-3, or W10-4 sign is used, sign placement in accordance with the guidelines for**
97 **Intersection Warning signs in Table 2C-3 using the speed of through traffic shall be measured from**
98 **the highway intersection.**

99 *Guidance:*

100 07 *If the distance between the tracks and the parallel highway, from the nearest rail of the tracks to the*
101 *edge of the parallel roadway, is 100 feet or more, a W10-1 sign should be installed in advance of the grade*
102 *crossing, and the W10-2, W10-3, or W10-4 sign should not be used on the parallel highway.*

103 CHAPTER 8C. MARKINGS

104 Section 8C.02 Grade Crossing Pavement Markings

105 **Standard:**

106 01 **On paved roadways, grade crossing pavement markings shall consist of an X, the letters RR, a**
107 **no-passing zone marking (on two-lane, two-way highways with center line markings in compliance**
108 **with Section 3B.01), and certain transverse lines as shown with detailed dimensions in Figures ~~8C-1~~**
109 **8C-1(OR) and 8C-2.**

110 02 **Except as provided in Paragraphs 3 and 4 of this Section, grade crossing pavement markings**
111 **shall be placed in each approach lane on all paved approaches to highway-rail grade crossings where**
112 **signals or automatic gates are located, and at all other grade crossings where the posted or statutory**
113 **highway speed is 40 mph or higher.**

114 03 **Grade crossing pavement markings shall not be required at highway-rail grade crossings where**
115 **the posted or statutory highway speed is less than 40 mph if the Diagnostic Team determines that**
116 **other installed devices provide suitable warning and control.**

117 04 **Grade crossing pavement markings shall not be required at highway-rail grade crossings in**
118 **urban areas if the Diagnostic Team determines that other installed devices provide suitable warning**
119 **and control.**

120 05 **Grade crossing pavement markings shall be placed in each approach lane on all paved**
121 **approaches to highway-LRT grade crossings where a Crossbuck sign is placed at the grade crossing.**

122 06 **If grade crossing pavement markings are used on a multi-lane approach to a grade crossing,**
123 **identical markings shall be placed in each approach lane that crosses the tracks.**

124 07 **All grade crossing pavement markings shall be retroreflective white. All other markings shall be**
125 **in accordance with Part 3.**

126 *Guidance:*

127 08 *Where grade crossing pavement markings are used, a portion of the X symbol should be directly*
128 *opposite the Grade Crossing Advance Warning sign.*

129 *Option:*

130 09 **Where determined by the Diagnostic Team, supplemental pavement marking symbol(s) may be placed**
131 **between the Grade Crossing Advance Warning sign and the grade crossing.**

132 *Guidance:*

133 10 *If supplemental pavement marking symbol(s) are placed between the Grade Crossing Advance Warning*
134 *sign and the grade crossing, the downstream transverse line should be at least 50 feet upstream from the*
135 *stop or yield line at the grade crossing.*

136 **Section 8C.03 Stop and Yield Lines**

137 *Guidance:*

138 01 *On paved roadway approaches to passive grade crossings where a STOP sign is installed in*
139 *conjunction with the Crossbuck sign, a stop line should be installed to indicate the point behind which*
140 *motor vehicles are required to stop or as near to that point as practicable.*

141 *Option:*

142 02 *On paved roadway approaches to passive grade crossings where a YIELD sign is installed in*
143 *conjunction with the Crossbuck sign, a yield line (see Section 3B.19) or a stop line may be installed to*
144 *indicate the point behind which motor vehicles are required to yield or stop or as near to that point as*
145 *practicable.*

146 *Guidance:*

147 03 *If a yield line (see Figure 3B-16) or stop line is used at a passive grade crossing, it should be a*
148 *transverse line at a right angle to the traveled way and should be placed no closer than 15 feet in advance*
149 *of the nearest rail.*

150 **Standard:**

151 04 **On paved roadways at grade crossings that are equipped with active control devices such as**
152 **flashing-light signals, automatic gates, or traffic control signals, a stop line (see Section 3B.19) shall be**
153 **installed to indicate the point behind which motor vehicles are or might be required to stop.**

154 *Guidance:*

155 05 *If a stop line is used at an active grade crossing where road users are controlled by flashing-light*
156 *signals, it should be a transverse line at a right angle to the traveled way and should be placed*
157 *approximately 8 feet in advance of the flashing-light signals or automatic gate (if present), whichever is*
158 *farther from the track(s), but no closer than 15 feet in advance of the nearest rail (see ~~Figure 8C-1~~*
159 *[Figure 8C-1\(OR\)](#)).*

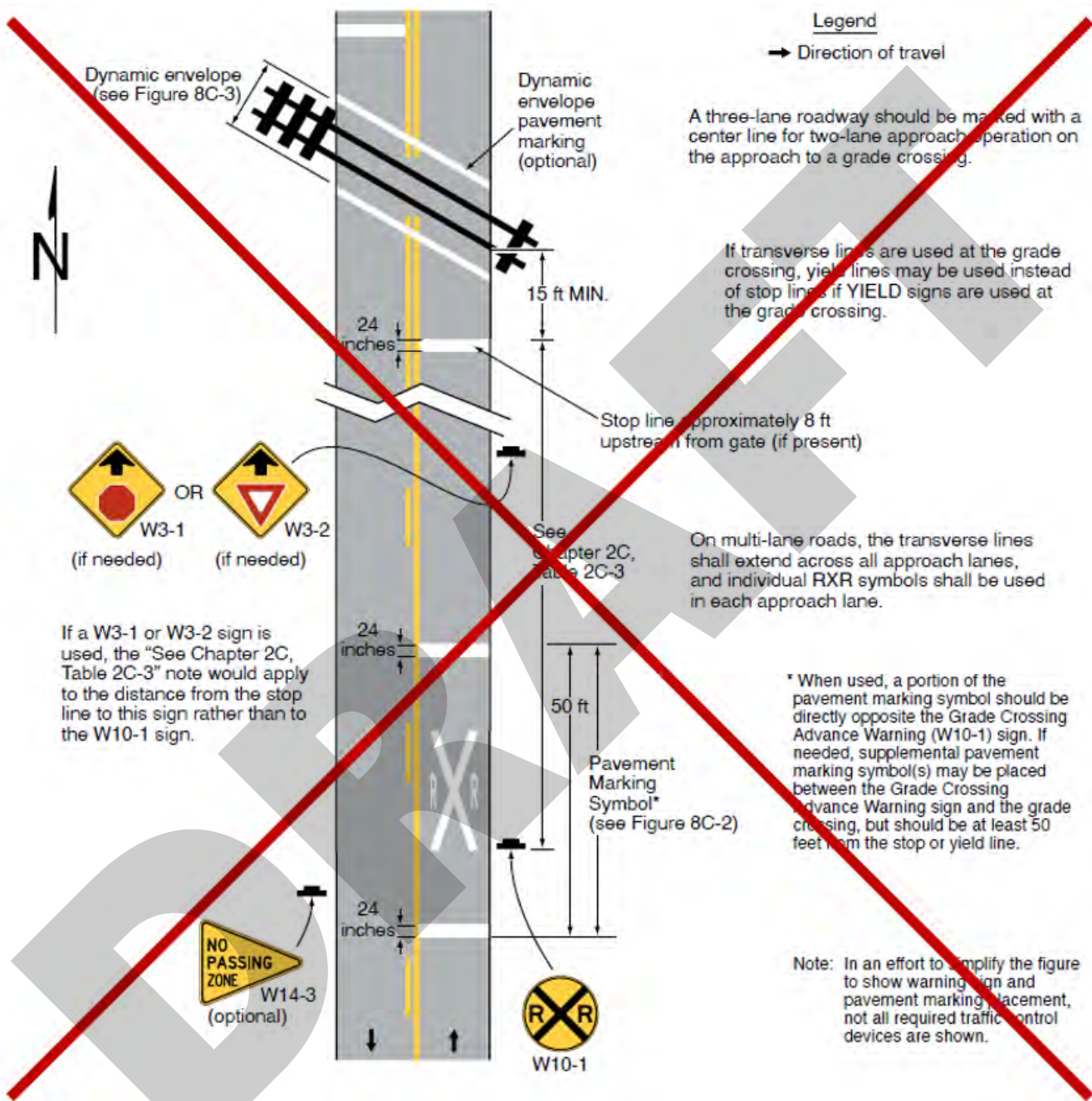
160 06 *If a stop line is used at an active grade crossing where road users are controlled by a traffic control*
161 *signal, it should be a transverse line at a right angle to the traveled way and should be placed no closer*
162 *than 15 feet in advance of the nearest rail.*

163 **Standard:**

164 07 **If a stop line is used at an active grade crossing where road users are controlled by a traffic**
165 **control signal, it shall be placed such that the lateral and longitudinal positions of the signal faces for**
166 **the approach comply with the provisions of Sections 4D.07 and 4D.08.**

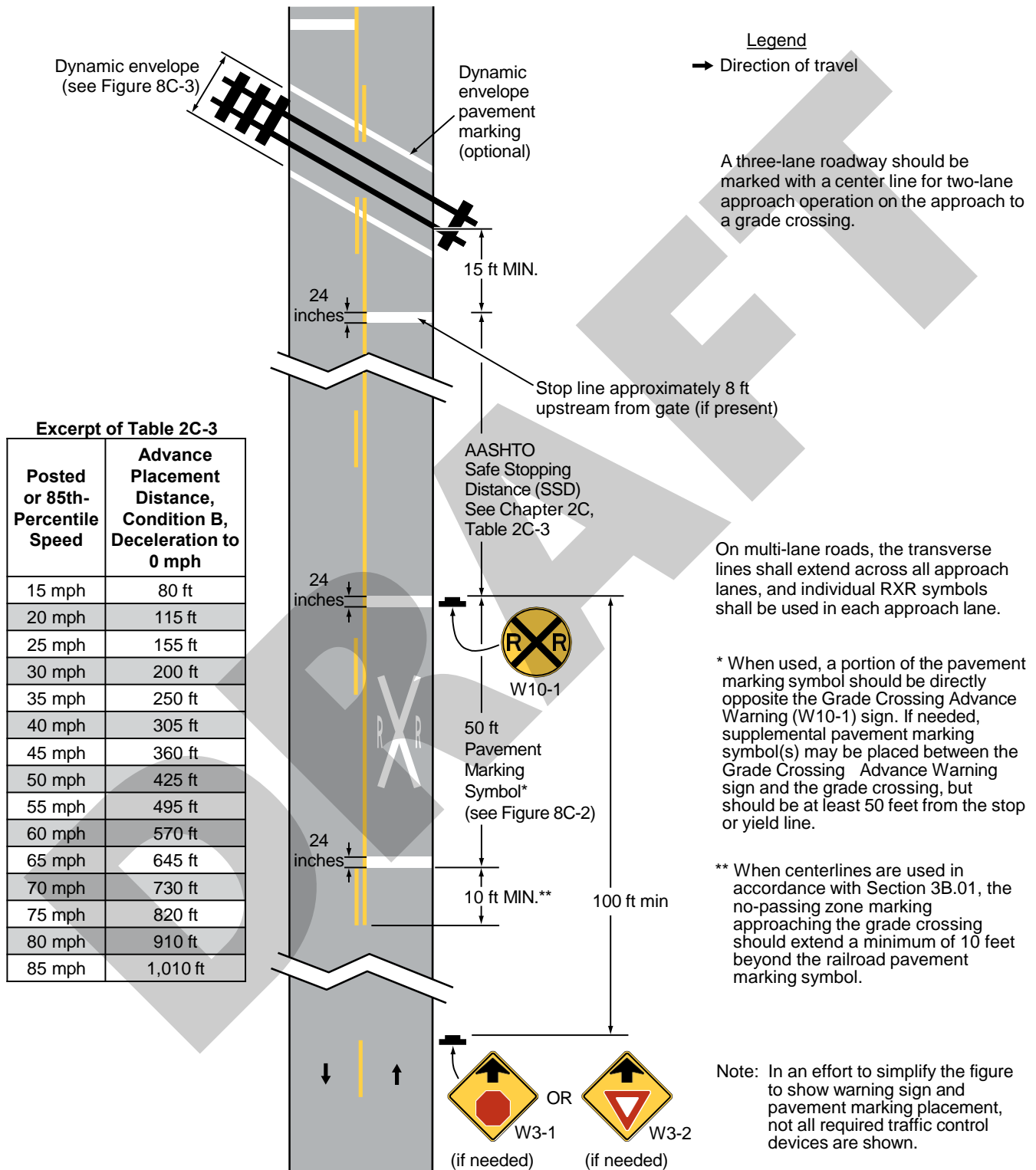
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Figure 8C-1. Examples of Placement of Warning Signs and Pavement Markings at Grade Crossings



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Figure 8C-1(OR). Example of Placement of Warning Signs and Pavement Markings at Grade Crossings



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OREGON TRAFFIC CONTROL DEVICES COMMITTEE
OREGON SUPPLEMENT TO THE MUTCD 11th EDITION
SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 9B.01 – STOP and YIELD Signs	Last Revised January 03, 2025	Proposal No. 11901
Supplement Team 9-Bicycles	Status FHWA Review – Round 1	Type New + Carryover
<p>Summary (2-3 sentences)</p> <p>Bicyclists do not always have to stop for a stop sign at an intersection in Oregon. There are also cases where bicycle-specific stop and yield signs will be visible to road users, even if the stop or yield condition doesn't apply to drivers. This proposes to address locations where bicyclists can continue without stopping for a stop sign under ORS 814.414 and carryover provisions for bicycle-specific stop and yield signs (OBR1-1 and OBR1-2) from the 2009 Oregon Supplement.</p> <p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none"> • Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern. • Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study. • Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD "shall" to a "should" or a "should" to a "may." • Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD "should" condition a "shall" condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon. 		

1 **Problem**

- 2 Section 9B.01 Paragraph 01 requires STOP (R1-1) signs on bicycle facilities where bicyclists must stop.
- 3 However, bicyclists do not always have to stop for a STOP sign at an intersection in Oregon.
- 4 Where users of a shared-use path or separated bikeway must stop or yield, but not roadway users,
- 5 Section 9B.01 Paragraph 05 recommends shielding or placing the STOP or YIELD sign, so it is not
- 6 readily visible to roadway users. Shielding or finding an alternate location is not always a practical
- 7 solution given the alignment of some paths or separated bikeways in Oregon.

8 Discussion

9 Stop as Yield

10 The standard in MUTCD 9B.01 Paragraph 01 requires a STOP sign at locations on bicycle facilities
11 where bicyclists must stop. However, bicyclists do not always have to stop for a STOP sign at an
12 intersection in Oregon – they can treat the STOP sign as a YIELD sign at intersections under ORS
13 814.414. This creates a conflict between Oregon statute and the MUTCD: if Paragraph 01 requires STOP
14 signs where bicyclists are required to stop, but bicyclists are not required to stop under ORS 814.414,
15 then can a STOP sign even be used?

16 ORS 814.414 applies to a person operating a bicycle who is approaching an intersection where traffic is
17 controlled by a STOP sign. This means a STOP sign must be present at an intersection for the statute to
18 apply. It also means additional signing is not needed to allow bicyclists to treat the STOP sign as a
19 YIELD sign. It also means it does not apply to railroad grade crossings nor intersections controlled by
20 traffic signals.

21 This proposes to resolve this conflict between the MUTCD and Oregon statute by clarifying that a
22 STOP sign shall be installed where bicyclists must stop, even where bicyclists are allowed to treat the
23 STOP sign as a YIELD sign under ORS 814.414. This clarifies for practitioners that a stop sign still
24 applies and that no additional signing is needed.

ORS 814.414 Improper entry into intersection controlled by stop sign; penalty.

- (1) A person operating a bicycle who is approaching an intersection where traffic is controlled by a stop sign may, without violating ORS 811.265, do any of the following without stopping if the person slows the bicycle to a safe speed:
 - (a) Proceed through the intersection.
 - (b) Make a right or left turn into a two-way street.
 - (c) Make a right or left turn into a one-way street in the direction of traffic upon the one-way street.
- (2) A person commits the offense of improper entry into an intersection where traffic is controlled by a stop sign if the person does any of the following while proceeding as described in subsection (1) of this section:
 - (a) Fails to yield the right of way to traffic lawfully within the intersection or approaching so close as to constitute an immediate hazard;
 - (b) Disobeys the directions of a police officer or flagger, as defined in ORS 811.230;
 - (c) Fails to exercise care to avoid an accident; or
 - (d) Fails to yield the right of way to a pedestrian in an intersection or crosswalk under ORS 811.028.
- (3) The offense described in this section, improper entry into an intersection where traffic is controlled by a stop sign, is a Class D traffic violation.

25 **Bicycle Stop and Yield Signs (OBR1-1 and OBR1-2)**

26 This also proposes to keep bicycle-specific stop and yield signs in the Oregon Supplement (OBR1-1 and
27 OBR1-2). The 2009 Oregon Supplement included these signs; this proposes to carryover the signs and
28 related language to the 11th Edition Oregon Supplement with no changes.

29 9B.01 Paragraph 05 recommends placing or shielding stop or yield signs for separated bikeways so they
30 are not readily visible to roadway users. However, there are situations where a road authority cannot
31 place one of these signs as recommended, such as the example below in Milwaukie, Oregon. If a STOP
32 sign were used in the example, it would be visible to road users and may cause confusion on who the
33 stop condition applies to. The OBR1-1 sign clarifies who the sign applies to, thereby improving user
34 understanding, safety, and operations at the intersection.

35 **Figure 1: Example of OBR1-1 Installation**



37 **Proposed Supplement Content**

38 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
39 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

40 **CHAPTER 9B. REGULATORY SIGNS**

41 **Section 9B.01 STOP and YIELD Signs (R1-1 and R1-2)**

42 **Standard:**

43 01 **STOP (R1-1) signs (see Figure 9B-1) shall be installed on bicycle facilities at points where bicyclists**
44 **are required to stop or yield to conflicting traffic per ORS 814.414.**

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Support:

01A ORS 814.414 describes conditions when a bicyclist can proceed through, or make turns at, an intersection without stopping for a stop sign. This does not apply to signalized intersections or railroad grade crossings.

Standard:

02 **YIELD (R1-2) signs (see Figure 9B-1) shall be installed on bicycle facilities at points where bicyclists have an adequate view of conflicting traffic as they approach the sign, and where bicyclists are required to yield the right-of-way to that conflicting traffic.**

03 **A STOP sign or a YIELD sign shall not be installed in conjunction with a bicycle signal face (see Chapter 4H).**

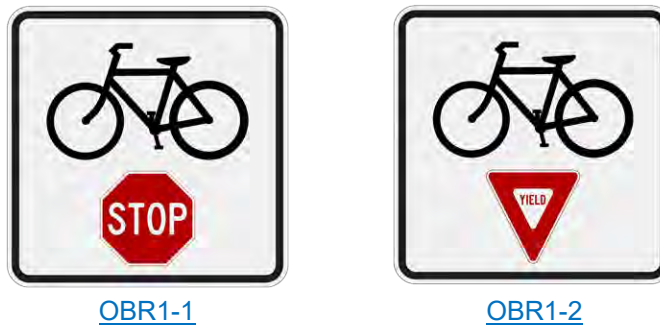
Option:

04 Larger signs may be used on shared-use paths and separated bikeways for added emphasis.

Guidance:

05 *Where conditions require shared-use path users or bicyclists on separated bikeways, but not roadway users, to stop or yield, the STOP or YIELD sign should be placed or shielded so that it is not readily visible to roadway users or a BICYCLE STOP (OBR1-1) or BICYCLE YIELD (OBR1-2) sign should be used.*

Figure 9B-1(OR) Regulatory Signs and Plaques for Bicycle Facilities



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06 *When the placement of STOP or YIELD signs is being considered, the priority at a shared-use path/roadway intersection should be assigned with consideration of the following:*

- A. *Relative speeds of shared-use path and roadway users,*
- B. *Relative volumes of shared-use path and roadway traffic, and*
- C. *Relative importance of shared-use path and roadway.*

07 *Speed should not be the sole factor used to determine priority, as it is sometimes appropriate to give priority to a high-volume shared-use path that crosses a low-volume street, or to a regional shared-use path that crosses a minor collector street.*

08 *When priority is assigned (see Sections 2B.06 and 2B.08), the least-restrictive control that is appropriate should be placed on the lower-priority approaches. STOP signs should not be used where YIELD signs would provide adequate control.*



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 9B.15 – Bicycle Passing Clearance Sign	Last Revised January 03, 2025	Proposal No. 11903
Supplement Team 9-Bicycles	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) Section 9B.15 allows use of the Bicycle Passing Clearance Sign (R4-19) where a law defines a specific clearance. Oregon’s passing clearance law describes a “safe distance” instead of a specific numeric clearance. To clarify applicability of this section in Oregon, this proposes to add an optional Oregon-specific bicycle passing clearance sign.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Section 9B.15 allows use of the Bicycle Passing Clearance Sign (R4-19) “in jurisdictions that have
3 defined in law or ordinance a specific clearance to be provided by motor vehicles when they pass
4 bicycles.” Oregon’s passing clearance law does not give a specific clearance.

5 Figure 1: Sign R4-19



6

7 Discussion

8 ORS 811.065 defines bicycle passing clearance under certain conditions. The statute does not give a
9 specific numerical distance, rather a description of a “safe distance.”

10 To clarify applicability of this section in Oregon, this proposes to allow optional use of sign R4-19
11 modified for Oregon’s statute and give supporting information on Oregon’s bicycle passing statute.

811.065 Unsafe passing of person operating bicycle; penalty.

- (1) A driver of a motor vehicle commits the offense of unsafe passing of a person operating a bicycle if the driver violates any of the following requirements:
 - (a) The driver of a motor vehicle may only pass a person operating a bicycle by driving to the left of the bicycle at a safe distance and returning to the lane of travel once the motor vehicle is safely clear of the overtaken bicycle. For the purposes of this paragraph, a “safe distance” means a distance that is sufficient to prevent contact with the person operating the bicycle if the person were to fall into the driver’s lane of traffic. This paragraph does not apply to a driver operating a motor vehicle:
 - (A) In a lane that is separate from and adjacent to a designated bicycle lane;
 - (B) At a speed not greater than 35 miles per hour; or
 - (C) When the driver is passing a person operating a bicycle on the person’s right side and the person operating the bicycle is turning left.
 - (b) The driver of a motor vehicle may drive to the left of the center of a roadway to pass a person operating a bicycle proceeding in the same direction only if the roadway to the left of the center is unobstructed for a sufficient distance to permit the driver to pass the person operating the bicycle safely and avoid interference with oncoming traffic. This paragraph does not authorize driving on the left side of the center of a roadway when prohibited under ORS 811.295, 811.300 or 811.310 to 811.325.
 - (c) The driver of a motor vehicle that passes a person operating a bicycle shall return to an authorized lane of traffic as soon as practicable.
- (2) Passing a person operating a bicycle in a no passing zone in violation of ORS 811.420 constitutes prima facie evidence of commission of the offense described in this section, unsafe passing of a person operating a bicycle, if the passing results in injury to or the death of the person operating the bicycle.
- (3) The offense described in this section, unsafe passing of a person operating a bicycle, is a Class B traffic violation. [2007 c.794 §2]

12 Proposed Supplement Content

13 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
14 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

15 CHAPTER 9B. REGULATORY SIGNS

16 **Section 9B.15 Bicycle Passing Clearance Sign (R4-19)**

17 Option:

18 01 The Bicycle Passing Clearance (R4-19) sign (see Figure 9B-1) may be used in jurisdictions that have
19 defined in law or ordinance a specific clearance to be provided by motor vehicles when they pass bicycles.

20 02 The specific clearance displayed on the Bicycle Passing Clearance (R4-19) sign may be adjusted to
21 reflect the applicable law or ordinance.

22 Standard:

23 03 **The Bicycle Passing Clearance (R4-19) sign shall not be used in jurisdictions that do not have a
24 specific passing clearance to be provided by motor vehicles passing bicycles, as defined in law or
25 ordinance.**

26 *Guidance:*

27 04 *The Bicycle Passing Clearance (R4-19) sign should not be used on roadways with bicycle lanes or with
28 shoulders usable for bicycle travel.*

29 Option:

30 05 The Oregon Bicycle Passing Clearance (OR4-19) sign (see Figure 9B-1(OR)) may be used to remind
31 drivers to give extra space when they pass bicycles per ORS 811.065.

32 Support:

33 06 Oregon does not have a specific passing clearance that drivers must provide when passing people on
34 bicycles that can be displayed on Sign R4-19. Instead, ORS 811.065 describes this as “a distance that is
35 sufficient to prevent contact with the person operating the bicycle if the person were to fall into the driver’s
36 lane of traffic.” The passing clearance requirements in ORS 811.065 do not apply where the motor vehicle
37 lane is adjacent to a designated bicycle lane, where the driver is traveling at 35 miles per hour or less, or
38 where a person on a bicycle is turning left and the driver passes on the right.

39

[Figure 9B-1\(OR\)](#)



40

41

[OBR4-19](#)



OREGON TRAFFIC CONTROL DEVICES COMMITTEE
OREGON SUPPLEMENT TO THE MUTCD 11th EDITION
SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 4A.05 – Meaning of Bicycle Signal Indications, 4H.03 – Bicycle Signal Signs, 9B.22 – Bicycle Signal Signs.	Last Revised January 03, 2025	Proposal No. 11904
Supplement Team 9-Bicycles	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) FHWA changed the meaning of bicycle signal indications to only allow movements on green that a regulatory sign, installed next to the bicycle signal, specifies. However, ORS 811.260(3) allows bicyclists facing a green bicycle signal to continue straight through or turn right or left unless a sign prohibits a movement, consistent with the meaning of circular vehicle signal indications. This proposes to align the meaning of bicycle signal indications with the Oregon Vehicle Code and allow the option of the bicycle signal sign from Interim Approval 16 where through, right, or left are allowed on a green bicycle signal.		
This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.		
The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement: <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 4A.05 Paragraph 01 says bicyclists facing a steady green bicycle signal indication are permitted to enter
3 the intersection only to make movements indicated on bicycle signal signs installed next to the bicycle
4 signal (R10-40 and R10-41 series, required in 4H.03 and 9B.22 with bicycle signals). However, ORS
5 811.260(3) allows bicyclists facing a green bicycle signal to continue straight through or turn right or
6 left unless a sign prohibits either turn – the same as a motor vehicle driver facing a circular green
7 indication.

8 Discussion

9 2009 MUTCD Interim Approval 16 – Bicycle Signals

10 Under the 2009 MUTCD, the interim approval for bicycle signals (IA-16) described the meaning of
11 bicycle signal indications in Condition 2 as having the same meaning of circular signal indications for
12 motor vehicles, except the bicycle signal only applied to bicyclists.

2. Meaning of Bicycle Signal Indications:

Steady and flashing RED BICYCLE, YELLOW BICYCLE, and GREEN BICYCLE signal indications shall have the same meanings as described in Paragraph 3 of Section 4D.04 for steady and flashing CIRCULAR RED, CIRCULAR YELLOW, and CIRCULAR GREEN signal indications for motor vehicles, respectively, except that the bicycle signal indications shall only be applicable to bicyclists.

13 Condition 7 in IA-16 required a bicycle signal sign (R10-10b) be installed immediately adjacent to every
14 bicycle signal to inform drivers that the signal is intended only for bicyclists. The sign did not include
15 any elements regulating allowable movements on a green bicycle signal.

7. Regulatory Signing:

A Bicycle SIGNAL (R10-10b) sign (see Attachment IA-16-3) shall be installed immediately adjacent to every bicycle signal face that is intended to control only bicyclists, including signal faces that are comprised of all bicycle symbol signal indications, all arrow signal indications, and every combination thereof. The purpose of the sign is to inform any motor vehicle drivers who can also see the signal face that these signal indications are intended only for bicyclists.

Traffic signal designs are to minimize other signing and rely on the fact that bicycles are legally considered vehicles and their responsibility to comply with traffic control devices and yield to other vehicles and pedestrians is part of the bicycling task.

16 Figure 1: Bicycle Signal Sign R10-10b in IA-16

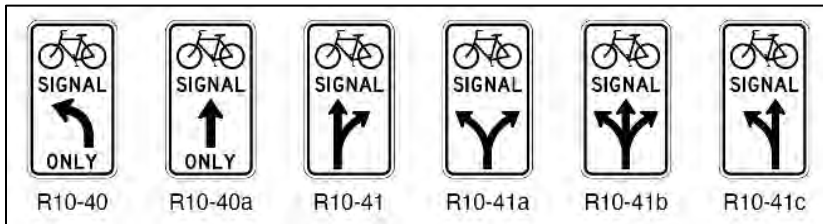


17

18 **MUTCD 11th Edition**

19 FHWA added bicycle signals to the 11th Edition of the MUTCD and added provisions about allowable
20 movements to the meaning of the green bicycle signal indication. FHWA also added a new bicycle
21 signal sign series (R10-40 and R10-41) in the 11th Edition to inform road users that the signal is for
22 bicycles and show the movements allowed on a green bicycle signal.

23 **Figure 2: R10-40 and R10-41 Series Signs in MUTCD 11th Edition**



25 **Oregon Vehicle Code**

26 The Oregon Vehicle Code is consistent with IA-16’s meaning of a green bicycle signal and is less
27 restrictive than 11th Edition MUTCD meaning – if there is no sign regulating movements, bicyclists can
28 continue without restrictions on movements.

29 ORS 811.260(3) describes proper responses to green bicycle signals in Oregon. It allows bicyclists to
30 continue straight, turn right, or turn left unless a sign prohibits a movement – the same meaning as a
31 circular green signal indication, just for a specific mode.

811.260 Appropriate driver responses to traffic control devices.

Except as provided in ORS 811.265 (2), a driver is in violation of ORS 811.265 if the driver makes a response to traffic control devices that is not permitted under the following:

- (1) Green signal. A driver facing a green light may proceed straight through or turn right or left unless a sign at that place prohibits either turn. A driver shall yield the right of way to other vehicles within the intersection at the time the green light is shown.
- ...
- (3) Green bicycle signal. A bicyclist facing a green bicycle signal may proceed straight through or turn right or left unless a sign at that place prohibits either turn. The bicyclist shall yield the right of way to other vehicles within the intersection at the time the green bicycle signal is shown.

32 ORS 811.265 also requires drivers to obey the directions of any traffic control device. This extends to
33 people operating bicycles, too – ORS 814.400 extends the same rights and duties of drivers to bicyclists
34 concerning operating on highways and vehicle equipment.

811.265 Driver failure to obey traffic control device; penalty.

- (1) A person commits the offense of driver failure to obey a traffic control device if the person drives a vehicle and the person does any of the following:
 - (a) Fails to obey the directions of any traffic control device.
 - (b) Fails to obey any specific traffic control device described in ORS 811.260 in the manner required by that section.
- (2) A person is not subject to this section if the person is doing any of the following:
 - (a) Following the directions of a police officer.
 - (b) Driving an emergency vehicle or ambulance in accordance with the privileges granted those vehicles under ORS 820.300.
 - (c) Properly proceeding on a red light as authorized under ORS 811.360.
 - (d) Driving in a funeral procession led by a funeral lead vehicle or under the direction of the driver of a funeral escort vehicle.
 - (e) Properly entering an intersection or executing a turn at a stop sign as authorized under ORS 814.414.
 - (f) Properly entering an intersection or executing a turn at a flashing red signal as authorized under ORS 814.416.
- (3) The offense described in this section, driver failure to obey a traffic control device, is a Class B traffic violation. [1983 c.338 §608; 1991 c.482 §13; 2015 c.147 §3; 2019 c.683 §5]

35

814.400 Application of vehicle laws to bicycles.

- (1) Every person riding a bicycle upon a public way is subject to the provisions applicable to and has the same rights and duties as the driver of any other vehicle concerning operating on highways, vehicle equipment and abandoned vehicles, except:
 - (a) Those provisions which by their very nature can have no application.
 - (b) When otherwise specifically provided under the vehicle code.
- (2) Subject to the provisions of subsection (1) of this section:
 - (a) A bicycle is a vehicle for purposes of the vehicle code; and
 - (b) When the term "vehicle" is used the term shall be deemed to be applicable to bicycles.
- (3) The provisions of the vehicle code relating to the operation of bicycles do not relieve a bicyclist or motorist from the duty to exercise due care. [1983 c.338 §697; 1985 c.16 §335]

36 There are scenarios where bicyclists can enter the intersection with no restrictions on movements and a
37 sign does not need to grant permission for that movement, a sign would not clarify allowable
38 movements, or more than three arrowheads would need to be added to the sign to show all allowable
39 movements. Examples include:

- 40 • One leg of a signalized intersection only carries bicycles (Figure 3).
- 41 • Bicycles cross diagonally or turn onto the intersecting street (Figure 4 and Figure 5).

42 There are also cases where other traffic control devices or the roadway design restricts movements
43 without the need for an added sign showing the allowable movements. Examples include:

- 44 • Arrow markings show allowable movements (Figure 6).
- 45 • Arrow markings, green markings, and/or curbs show allowable movements (Figure 7 and
46 Figure 8).

47 If the meaning of a green bicycle indication and a circular green indication are equivalent in the Oregon
48 Vehicle Code (with one applying to bikes), then the meaning of the two indications should be
49 equivalent in the MUTCD.

50 As stated in 4H.03 and 9B.22, one of the purposes of the Bicycle Signal signs are to inform road users
51 that the signal indications in the bicycle signal face are intended only for bicyclists. In cases where
52 arrows are not needed on the bike signal sign, the bicycle signal sign used in IA-16 (R10-10b) can
53 inform road users that the bicycle signal is intended only for bicyclists without needing to regulate
54 movements.

55 **Figure 3: One Leg of Signalized Intersection Exclusively for Bicycles**



56

57 **Figure 4: Bicycles Cross Diagonally or Make Turns on Green Bicycle Signal**

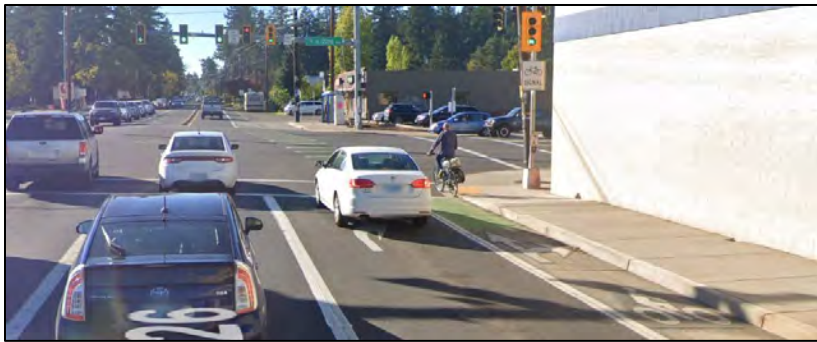


58

59 **Figure 5: Bicycles Cross Diagonally or Make Turns on Green Bicycle Signal**



60
61 **Figure 6: Bicycle Signal Controlling Painted Bicycle Lane, Markings Showing Allowable**
62 **Movements**



63
64 **Figure 7: Bicycle Signals Controlling Separated Bicycle Lanes, Markings and Geometry Showing**
65 **Allowable Movements**



66
67 **Figure 8: Bicycle Signal Controlling Separated Bicycle Lanes, Markings and Geometry Showing**
68 **Allowable Movements**



69

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 4A. GENERAL

Section 4A.05 Meanings of Bicycle Symbol Signal Indications

Standard:

01 The following meanings shall be given to bicycle symbol signal indications for bicyclists:

A. Bicyclists facing a steady GREEN BICYCLE signal indication are permitted to enter the intersection ~~only to make the movement indicated to proceed straight through or turn right or left except as such movement is modified~~ by the lane-use arrow(s) displayed on the Bicycle Signal sign (see Section 9B.22) that is located immediately adjacent to the signal face, turn prohibition signs, lane markings, roadway design, or other traffic control devices. Bicyclists proceeding into the intersection during the display of the steady GREEN BICYCLE signal indication shall yield the right-of-way to:

1. Pedestrians lawfully within an associated crosswalk, and
2. Other vehicles lawfully within the intersection.

B. Bicyclists facing a steady YELLOW BICYCLE signal indication are thereby warned that the related green movement is being terminated and that a steady RED BICYCLE signal indication will be displayed immediately thereafter when bicyclists shall not enter the intersection. The rules set forth concerning bicycle operation under the movement being terminated shall continue to apply while the steady YELLOW BICYCLE signal indication is displayed.

C. Bicyclists facing a steady RED BICYCLE signal indication shall not enter the intersection to make the movement indicated by the lane-use arrow(s) displayed on the Bicycle Signal sign (see Section 9B.22) that is located immediately adjacent to the signal face and, unless entering the intersection to make another movement permitted by another bicycle symbol signal indication, shall stop at a clearly marked stop line; but if there is no stop line, before entering the crosswalk on the near side of the intersection; or if there is no crosswalk, then before entering the intersection; and shall remain stopped until a GREEN BICYCLE signal indication permitting the movement indicated by such RED BICYCLE signal indication is displayed.

Except when a traffic control device is in place prohibiting a turn on red, bicyclists facing a steady RED BICYCLE signal indication are permitted to enter the intersection to turn right if there are no approach lanes for motor vehicle traffic to their right. The right to proceed with the turn shall be subject to the rules applicable after making a stop at a STOP sign.

D. A flashing GREEN BICYCLE signal indication has no meaning and shall not be used.

- 107 **E. A flashing YELLOW BICYCLE signal indication has no meaning and shall not be used.**
- 108 **F. Bicyclists facing a flashing RED BICYCLE signal indication shall stop at a clearly marked**
109 **stop line; but if there is no stop line, before entering the crosswalk on the near side of the**
110 **intersection; or if there is no crosswalk, at the point nearest the intersecting roadway where**
111 **the bicyclist has a view of approaching traffic on the intersecting roadway before entering the**
112 **intersection. The right to proceed in the direction indicated by the lane-use arrow(s) displayed**
113 **on the Bicycle Signal sign (see Section 9B.22) that is located immediately adjacent to the**
114 **signal face shall be subject to the rules applicable after making a stop at a STOP sign.**

115 Support:

116 02 On a GREEN BICYCLE signal indication, ORS 811.260(3) allows bicyclists to proceed straight
117 through or turn right or left, unless a sign prohibits a movement. ORS 811.265 and ORS 814.400 require
118 bicyclists to obey the directions of any applicable traffic control device.

119 **CHAPTER 4H. BICYCLE SIGNALS**

120 **Section 4H.03 Bicycle Signal Signs**

121 Support:

122 01 The primary purposes of the Bicycle Signal (R10-40, R10-40a, R10-41, R10-41a, R10-41b) sign (see
123 Section 9B.22) are to inform road users that the signal indications in the bicycle signal face are intended
124 only for bicyclists, and to inform bicyclists which specific bicyclist movements are controlled by the
125 bicycle signal face.

126 **Standard:**

127 02 **Except as provided in Paragraph 3 and Paragraph 4 of this Section, a Bicycle Signal (R10-40,**
128 **R10-40a, R10-41, R10-41a, or R10-41b) sign shall be installed immediately adjacent to (including**
129 **above or below) every bicycle signal face. The Bicycle Signal sign shall have a minimum size of 24**
130 **inches x 36 inches if it is placed next to an overhead-mounted bicycle signal face and shall have a**
131 **minimum size of 12 inches x 21 inches if it is placed next to a post-mounted bicycle signal face.**

132 Option:

133 03 The Bicycle Signal sign may be omitted adjacent to a supplemental near-side bicycle signal face
134 containing 4-inch indications.

135 04 The Bicycle Signal (OBR10-42) sign may be installed instead of a Bicycle Signal (R10-40, R10-40a,
136 R10-41, R10-41a, or R10-41b) sign where bicyclists can proceed through the intersection in any direction
137 on a GREEN BICYCLE signal indication, or where turn prohibition signs, lane markings, roadway design,
138 or other traffic control devices inform bicyclists which specific movements are allowed on a GREEN
139 BICYCLE signal indication.

140 Support:

141 05 On a GREEN BICYCLE signal indication, ORS 811.260(3) allows bicyclists to proceed straight
142 through or turn right or left, unless a sign prohibits a movement. ORS 811.265 and ORS 814.400 require
143 bicyclists to obey the directions of any applicable traffic control device.

144 **CHAPTER 9B. REGULATORY SIGNS**

145 **Section 9B.22 Bicycle Signal Signs (R10-40, R10-40a, R10-41, R10-41a, R10-41b, and R10-41c)**

146 **Support:**

147 01 The purposes of the Bicycle Signal signs (see Figure 9B-1) are to inform road users that the signal
148 indications in the bicycle signal face are intended only for bicyclists, and to inform bicyclists which specific
149 bicycle movements are controlled by the bicycle signal face.

150 02 Section 4H.03 contains information on signs that are used in conjunction with bicycle signal faces.

151 **Standard:**

152 03 **Except as provided in Paragraph 4, the ~~The~~ Bicycle Signal – Mandatory Movement (R10-40 or
153 R10-40a) sign or the Bicycle Signal – Optional Movement (R10-41, R10-41a, R10-41b, or R10-41c)
154 sign shall require bicycles to turn, shall permit turns where such turns would otherwise not be
155 allowed, shall require a bicycle to stay in the same lane and proceed straight through an intersection,
156 or shall indicate allowed movements when a GREEN BICYCLE signal indication is displayed on a
157 bicycle signal face.**

158 **Option:**

159 04 The Bicycle Signal (OBR10-42) sign may be installed instead of a Bicycle Signal (R10-40, R10-40a,
160 R10-41, R10-41a, or R10-41b) sign where bicyclists can proceed through the intersection in any direction
161 on a GREEN BICYCLE signal indication, or where turn prohibition signs, lane markings, roadway design,
162 or other traffic control devices inform bicyclists which specific movements are allowed on a GREEN
163 BICYCLE signal indication.

164 **Support:**

165 05 On a GREEN BICYCLE signal indication, ORS 811.260(3) allows bicyclists to proceed straight
166 through or turn right or left, unless a sign prohibits a movement. ORS 811.265 and ORS 814.400 require
167 bicyclists to obey the directions of any applicable traffic control device.

168 **Figure 9B-1(OR). Regulatory Signs and Plaques for Bicycle Facilities**



169 OBR10-42
170



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 9D.01 – Bicycle Destination Signs	Last Revised January 03, 2025	Proposal No. 11905
Supplement Team 9-Bicycles	Status OTCDC Review – Round 2	Type Carryover
Summary (2-3 sentences) FHWA added guidance in Section 9D.01 that travel times should not be used on bicycle destination signs, without supporting evidence that travel times affect safety. Oregon developed its own bicycle destination sign prior to its introduction in the MUTCD and Oregon’s road authorities have used it extensively. This proposes to make adding travel times optional and retain OBD1-1c, OBD1-2c, and OBD1-3c in the Oregon Supplement to keep Oregon’s bicycle wayfinding system consistent.		
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1 **Problem**

2 FHWA added guidance in Section 9D.01 that travel times should not be used on bicycle destination
3 signs. FHWA made this change without supporting evidence that travel times on these signs affect
4 safety. Oregon developed its own bicycle destination sign prior to its introduction in the MUTCD and
5 Oregon’s road authorities have used it extensively. Removing Oregon’s bicycle destination sign would
6 create inconsistency in the state’s existing bicycle wayfinding system.

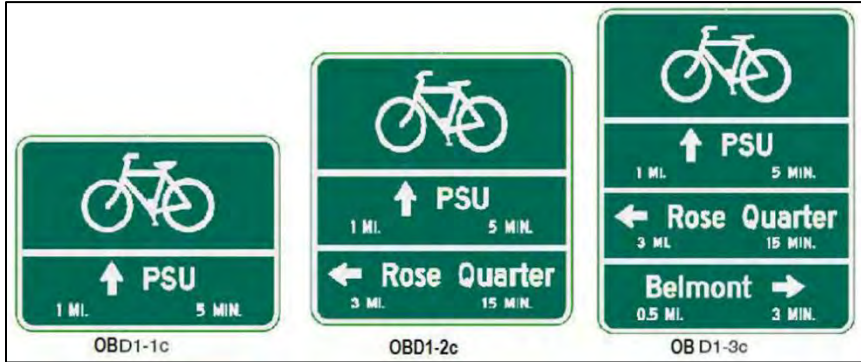
7 **Discussion**

8 **2009 Oregon Supplement to the MUTCD**

9 Before bicycle destination and distance signs appeared in the MUTCD, Oregon agencies developed
10 design details for these types of signs. The latest iterations currently appear in Figure 9B-4(OR) in the
11 Oregon Supplement to the 2009 MUTCD (Figure 1) and road authorities use them extensively in the
12 state.

13 These signs include distance and travel times. Some agencies use a speed of 10 mph to calculate travel
14 time but there is no official guidance on how to do this in the Supplement.

15 **Figure 1: Bicycle Destination Signs in the Oregon Supplement to the 2009 MUTCD**



16

17 **MUTCD 11th Edition**

18 FHWA added provisions in the 11th Edition Section 9D.01 that allow for modifications to the MUTCD
19 Bicycle Destination Signs to be like Oregon’s versions (OBD1-1c, OBD1-2c, OBD1-3c). Specifically,
20 Section 9D.01 Paragraph 14 allows an oversized bicycle symbol as the top line of a Bicycle Destination
21 sign instead of individual bicycle symbols for each of the destination/distance lines.

22 FHWA also added guidance in Paragraph 19 that travel times should not be used on Bicycle
23 Destination signs, explaining in Paragraph 20 that travel times can vary for bicyclists based on a variety
24 of factors including individual speed, bicycle type, and type of facility. While useful to advertise that
25 bicycle travel is faster than some may think, FHWA’s explanation is true, especially with the rise of e-
26 bikes and other electric micromobility devices since the 2009 MUTCD.

27 Figure 2 shows an example of what a bicycle destination sign could look like under the 11th Edition
28 (this is from FHWA’s [Official Interpretation 9\(09\)-20\(I\)](#)). Figure 3 shows a version of Oregon’s bicycle
29 destination signs that would be consistent with the 11th Edition MUTCD.

30 **Figure 2: Example Sign from FHWA Official Interpretation 9(09)-20(I)**



31

32 Keep Oregon’s Bicycle Destination Signs


33 Oregon’s road authorities have been extensively using the bicycle destination sign from the 2009
34 Oregon Supplement to the MUTCD. This has brought consistency for bicycle wayfinding throughout
35 the state. Examples shown below in Table 1. The bicycle destination signs in the 2009 Oregon
36 Supplement should continue to be available to Oregon’s road authorities because changing to a new
37 design would make Oregon’s existing bicycle wayfinding system inconsistent during the sign’s long
38 service life.

39 To keep Oregon’s existing bicycle wayfinding sign, the new guidance that travel times should not be
40 used on bicycle destination signs should be made optional in the Supplement. Travel times add context
41 for people on bicycles who are unfamiliar with bicycle travel. This can help them decide whether they
42 can reach a destination by bicycle. Adding travel time does not affect safety. No studies have examined
43 the safety effects of showing travel time to bicycle destination signs to support the new guideline in the
44 MUTCD. The signs are scaled for non-motorized traffic and add contextual information for navigation.

45 The NACTO Urban Bikeway Design Guide ([Bike Route Wayfinding Signing and Marking System](#))
46 recommends adding travel times to these signs, saying this may help minimize the tendency to
47 overestimate the time it takes to travel by bicycle. FHWA recognizes and supports use of the NACTO
48 Urban Bikeway Design Guide as a resource for complete streets design
49 (<https://www.fhwa.dot.gov/design/altstandards/index.cfm>).



50 While mobile mapping apps like Google Maps also provide distance and travel time by bicycle, not all
51 road users have access to a mobile device, and providing travel time on the sign can help keep
52 bicyclists’ attention on the street instead of their mobile device.

53 The Oregon Supplement should leave the method to calculate travel time to engineering judgement
54 and inform that judgement by referencing research on bicycle travel behavior. As the MUTCD’s new
55 support paragraph 20 says, travel times can vary based on a variety of factors. The NACTO Urban
56 Bikeway Design Guide recommends using a 10-mph bicycle speed for travel time calculations, a speed
57 supported by a 2008 study of bicycle travel time and route choice by Portland State University
58 ([OTREC-RR-08-03](#)). This speed can change based on a route’s grade, among several other factors, so
59 this design detail should be left to engineering judgement. The Portland State University research can
60 also be a resource for other aspects of these signs, such as route choice, trip purpose, and trip distance.

Oregon Location	Example	Link
Brookings		17300 Oregon Coast Hwy - Google Maps

Oregon Location	Example	Link
Corvallis		1540 NW 11th St - Google Maps
Eugene		20 E 13th Ave - Google Maps
Gilchrist		The Dalles-California Hwy - Google Maps
Joseph		62873 Wallowa Lake Hwy - Google Maps

Oregon Location	Example	Link
Milwaukie		9515 SE 17th Ave - Google Maps
Monmouth		380 OR-99W - Google Maps
Portland		2997 S Moody Ave - Google Maps
Rickreall		S Pacific Hwy W - Google Maps

Oregon Location	Example	Link
Roseburg		382 W Harvard Ave - Google Maps
Salem		799 Court St NE - Google Maps

61

Proposed Supplement Content

This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with blue underline. This shows the entire section where the change is proposed unless noted otherwise.

CHAPTER 9D. GUIDE AND SERVICE SIGNS

Section 9D.01 Bicycle Destination Signs (D1-1b, D1-1c, D1-2b, D1-2c, D1-3b, D1-3c, D2-1a, D2-2a, and D2-3a)

Support:

01 The purpose of Bicycle Destination (D1-1b, D1-1c, D1-2b, D1-2c, D1-3b, ~~and~~ D1-3c, OBD1-1c, OBD1-2c, and OBD1-3c) signs (see Figure 9D-1 and Figure 9D-1(OR)) and Bicycle Distance (D2-1a, D2-2a, and D2-3a) signs (see Figure 9D-1) is to provide guidance to bicyclists traveling along a bikeway network directing them to typical bicycle destinations or points of interest. The smaller size of Bicycle Destination and Distance signs can deemphasize the messages to motorists, especially when the direction(s) or destination(s) displayed provides access to routes or pathways where the use of motor vehicles is prohibited or discouraged. Examples include, but are not limited to:

- A. Bicycles can go in a direction counter to conventional traffic,
- B. Access to a separated bikeway or shared-use path from a street,
- C. Access to a bicycle route,
- D. Bicycles are directed to another roadway or bikeway that facilitates a parallel or alternative route to the same destination, or
- E. Access to a sidewalk that provides connectivity between bicycle facilities.

02 Section 2D.36 contains information on Destination signs used for when the destinations listed would apply to both motorists and bicyclists.

03 Section 2D.43 contains information on Distance signs used for when the destinations listed would apply to both motorists and bicyclists.

Standard:

04 **Because of their smaller size, Bicycle Destination and Distance signs shall not be used as a substitute for vehicular destination signs when the message is also intended to be applicable to motorists.**

Option:

05 Bicycle Destination and Distance (D1-1b, D1-1c, D1-2b, D1-2c, D1-3b, D1-3c, D2-1a, D2-2a, ~~and~~ D2-3a, OBD1-1c, OBD1-2c, and OBD1-3c) signs may be installed to provide direction, destination, and distance information as needed for bicycle travel. If several destinations are to be shown at a single location, they may be placed on a single sign with an arrow (and the distance, if desired) for each name. If more than one destination lies in the same direction, a single arrow may be used for the destinations.

06 Destination (D1-1 and D1-1a) signs (see Section 2D.36) and Street Name (D3-1) signs (see Section 2D.45) may be installed instead of or in addition to Bicycle Destination signs as needed if the Destination or Street Name sign applies to motorists and bicyclists.

99 07 Distance (D2-1 through D2-3) signs (see Section 2D.43) may be installed instead of, or in addition to,
100 Bicycle Distance (D2-1a through D2-3a) signs, as needed, if the destination and distance information
101 applies to motorists and bicyclists.

102 *Guidance:*

103 08 *Adequate separation should be made between any destination or group of destinations in one direction*
104 *and those in other directions by suitable design of the arrow, spacing of lines of legend, heavy lines entirely*
105 *across the sign, or separate signs.*

106 09 *Where a Bicycle Destination sign with distance information is located less than ½ mile from the*
107 *destination, the distance displayed should be to the nearest ¼ mile. Where the distance to be displayed on a*
108 *Bicycle Destination sign is less than ¼ mile, the distance should be displayed in feet, rather than miles, to*
109 *the nearest 50 feet.*

110 *Option:*

111 10 Distances may be displayed in fractions of a mile to the nearest 1/10 mile to communicate distance
112 information on Bicycle Destination signs where the distance to a destination is desired to be more precise
113 than ¼-mile increments.

114 *Support:*

115 11 Section 2A.08 contains provisions on the display of fractions on guide signs.

116 **Standard:**

117 12 **An arrow pointing to the right, if used, shall be at the extreme right-hand side of the sign. An**
118 **arrow pointing left or up, if used, shall be at the extreme left-hand side of the sign. The distance**
119 **numerals, if used, shall be placed to the right of the destination names.**

120 13 **Except as provided in Paragraph 14 of this Section, a bicycle symbol shall be placed next to each**
121 **destination or group of destinations.**

122 *Option:*

123 14 An oversized bicycle symbol may be displayed as the top line of a Bicycle Destination sign instead of
124 individual bicycle symbols for each of the destination/distance lines.

125 **Standard:**

126 15 **If an arrow is at the extreme left, the bicycle symbol shall be placed to the right of the respective**
127 **arrow.**

128 *Guidance:*

129 16 *Where the arrow is at the extreme right, the bicycle symbol should be to the left of the destination*
130 *legend.*

131 17 *Unless a sloping arrow will convey a clearer indication of the direction to be followed, the directional*
132 *arrows should be either horizontal or vertical.*

133 18 *If several individual name signs are assembled into a group, all of the signs in the assembly should*
134 *have the same horizontal width.*

135 Option:
136 19 Travel times *should not* may be used on Bicycle Destination signs based on engineering judgement.

137 Support:

138 20 Travel times can vary greatly for bicyclists based on a variety of factors including individual speed,
139 bicycle type, and type of facility. Research on bicycle travel time, trip purpose, and route choice is available
140 from Portland State University at <http://dx.doi.org/10.15760/trec.151>.

141 21 State and local agencies in Oregon developed design details for Bicycle Destination signs prior to their
142 introduction in the MUTCD. Figure 9D-1(OR) shows examples of these signs.

143 **Figure 9D-1(OR). Guide Signs for Bicycle Facilities**



144
145 OBD1-1c



OBD1-2c



OBD1-3c



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 9E.01 – Bicycle Lanes 9E.07 – Separated Bicycle Lanes	Last Revised January 03, 2025	Proposal No. 11907
Supplement Team 9-Bicycles	Status OTCDC Review – Round 2	Type Carryover
Summary (2-3 sentences) Agencies in Oregon have consistently marked bicycle lanes with 8-inch-wide longitudinal white lines and bicyclist symbol markings with an arrow. The 11th Edition MUTCD requires 4-inch-wide longitudinal white lines for bicycle lanes, no longer uses the bicyclist symbol marking, and says the arrow marking is optional. This proposes a supplement to continue using 8-inch-wide lines and the helmeted bicyclist symbol with arrow to mark bicycle lanes in Oregon.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 Agencies in Oregon have historically marked bicycle lanes with 8-inch-wide longitudinal white lines
3 when used to separate motor vehicle lanes from bicycle lanes traveling in the same direction. Agencies
4 have also marked bicycle lanes with the bicyclist symbol markings with a directional arrow, not the
5 word marking “BIKE LANE.” The 11th Edition MUTCD uses 4-inch-wide longitudinal white lines for
6 bicycle lanes and allows use of the word marking “BIKE LANE.”

7 Discussion

8 This proposes to mark bicycle lanes with a wide line (standard), one symbol (helmeted bicyclist,
9 standard), and arrow marking (guidance). This may improve safety by enhancing uniformity, visibility,
10 and recognition of bicycle lanes in Oregon and reducing field crew exposure to traffic to install bicycle
11 lane markings.

12 Longitudinal Bicycle Lane Markings

13 This proposes to continue using an 8-inch-wide line for bicycle lanes in Oregon for added emphasis to
14 discourage drivers from crossing the bicycle lane line. This may improve safety by increasing visibility
15 of the line and increasing the minimum width of buffers, where a buffer is used.

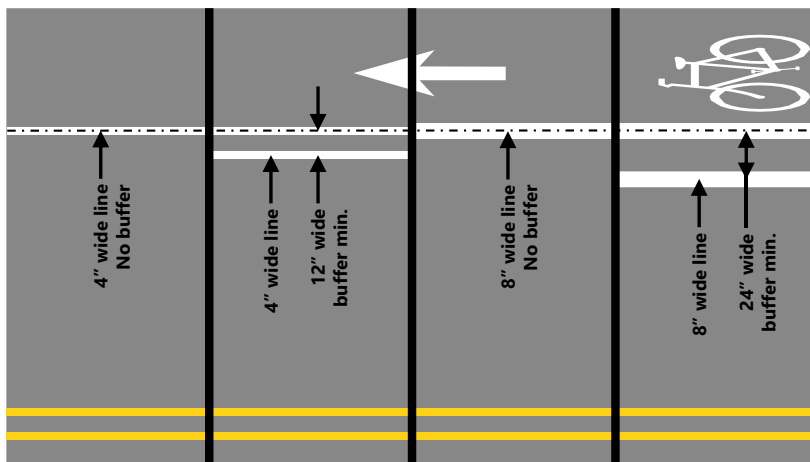
16 Prior to adopting the 2009 MUTCD, OAR 734-020-0055 specified 8-inch-wide longitudinal white lines.
17 That provision moved to the Oregon Supplement to the 2009 MUTCD, and OAR 734-020-0055 was
18 repealed, when the Oregon Transportation Commission adopted the 2009 MUTCD with supplements
19 ([HWD 14-2011](#)).

OAR 734-020-0055 Bicycle Lane Definition (repealed)

A bicycle lane as defined by ORS 801.155(6) shall be separated from the adjacent roadway by a single, solid eight-inch-wide white stripe.

20 FHWA added new guidance in Section 9E.06 Paragraph 08 that buffer spaces should be at least 3 times
21 the width of the longitudinal line used to mark the buffer space. A 4-inch-wide line would mean
22 buffers, when used, should be at least 12 inches wide – the same layout as Oregon’s standard double
23 yellow (no passing) line. Maintaining an 8-inch-wide line will mean buffers, when used, should be at
24 least 24 inches wide.

25 **Figure 1: Line and Buffer Widths**



26
27 The Oregon Supplement to the 2009 MUTCD added a provision for marking counterflow bicycle lanes
28 with a yellow double line. Section 9E.08 in the national MUTCD covers counterflow bicycle lanes now,
29 so the Oregon Supplement no longer needs to address counterflow bicycle lanes.

30 Bicycle Lane Word Markings

31 This proposes to only allow one symbol for bicycle lanes by removing the BIKE LANE word legend as
32 an option. This may improve safety by increasing uniformity and road user understanding – using a
33 standard symbol instead of English words.

34 The 11th Edition of the MUTCD allows two types of bicycle lane markings as shown in Figure 9E-1 –
35 bicycle symbol or BIKE LANE work markings. Starting with the 2009 Edition, the Oregon Supplement
36 to the MUTCD only allowed symbol markings for statewide consistency. Today, Oregon’s bicycle lanes
37 are uniformly marked with the helmeted bicyclist symbol, not the BIKE LANE word legend.

38 **Bicycle Lane Symbol Markings**

39 Oregon’s road authorities uniformly mark bicycle lanes with the helmeted bicyclist symbol. However,
40 FHWA removed this symbol marking in the 11th Edition. FHWA’s Summary of Dispositions for the
41 11th Edition explained this change under NPA Item No. 623.

42 **Figure 2: FHWA Summary of Disposition No. 623**

43 FHWA proposes a revision to Figure 9E-1 to include
44 a single symbol for bicycle symbol pavement
45 markings to enable a single symbol used for bicycle
46 signs and pavement markings thereby enhancing
47 uniformity and recognition of bicycle symbols.

44 While a single symbol across signs and markings may enhance uniformity and recognition of bicycle
45 symbols, retaining the helmeted bicyclist symbol in Oregon supports uniformity, recognition, and
46 safety of field crews. This proposes to make the helmeted bicyclist symbol the standard marking for
47 bicycle lanes in Oregon.

- 48 1. The helmeted bicyclist symbol is uniformly used to mark bicycle lanes in Oregon. This
49 uniformity supports recognition of bicycle facilities. There has been no observable problem in
50 Oregon with road users recognizing the helmeted bicyclist symbol’s meaning. The MUTCD has
51 included the helmeted bicyclist symbol since at least the 1978 Edition.
- 52 2. Bicycle lanes would not be uniformly marked for many years while Oregon transitions to the
53 bicycle symbol. Road authorities would maintain existing helmeted bicyclist symbols until the
54 symbols completely wore away or the road was repaved. This lack of uniformity does not
55 support FHWA’s reason for removing the helmeted bicyclist symbol in the 11th Edition.
- 56 3. The helmeted bicyclist symbol is faster to install because its components do not need to be
57 precisely aligned with each other and they are less prone to breaking because of their wider
58 thickness (see Figure 3). This improves safety for field crews and road users by reducing
59 exposure to traffic and temporary traffic control conditions.

60 ODOT pavement marking crews estimate it takes them about 30 seconds to lay out the
61 helmeted bicyclist symbol and about 90 seconds to lay out the bicycle symbol. Given the bicycle
62 lane marking is one of the most common markings on Oregon streets, one minute difference
63 adds up to a significant difference in exposure to traffic.

64 **Figure 3: Pre-formed Thermoplastic Bicycle Components (Various Manufacturers)**



68 **Bicycle Lane Arrow Markings**

69 This proposes to upgrade an option to guidance to use an arrow marking for a bicycle lane. This may
70 improve safety by improving understanding for all road users of which direction people on bicycles are
71 supposed to ride and reducing the likelihood of a crash caused by wrong-way riding as described in
72 the Oregon Bicycling Manual.

73 This continues a practice from the 2009 Oregon Supplement to the MUTCD, which clarified that the
74 bicycle lane symbol and arrow markings should be placed together to show travel direction in the
75 bicycle lane.

76 **Figure 4: Excerpt from Oregon Supplement to the 2009 MUTCD, Markings for Bicycle Lanes** 77 **Section 9C.04**

Guidance:

*If used, bicycle lane ~~word~~, symbol, and ~~or~~ arrow markings (see Figure 9C-3) should be placed at the
beginning of a bicycle lane and at periodic intervals along the bicycle lane based on engineering judgment.*

79 **Figure 5: Excerpt from Oregon Bicycling Manual**

Ride with Traffic

Ride in a straight line in the same direction as the traffic next to you. People driving look for possible conflicts with traffic when they enter a road, turn, or change lanes. If you are riding in the same direction as traffic, people driving will more likely see and yield to you.

When riding in a bicycle lane, you should ride in the same direction as the arrow painted on the pavement in the bicycle lane.

Most bicycle lanes are marked as one-way in the same direction as the closest traffic lane. The rare exceptions are:

- some one-way streets where a “contraflow” bicycle lane is specifically designed and marked to allow people on bicycles to ride in the opposite direction from cars, and
- where a specially designed and marked two-way bicycle lane is provided on one side of the street.

Riding in the road against traffic is against the law. Some people ride against traffic because they think that looking at on-coming traffic will help prevent crashes or being hit from behind. However, people bicycling are rarely hit from behind and wrong-way riding actually puts you at higher risk for a crash. Riding against traffic makes it difficult to see signs and traffic signals that could be critical for making decisions or avoiding conflicts. You also risk a head-on collision with people riding or driving in the right direction who may not have time or space to safely move around you.

80

81 Proposed Supplement Content

82 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
83 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

84 CHAPTER 9E. MARKINGS

85 Section 9E.01 Bicycle Lanes

86 Support:

87 01 Pavement markings designate that portion of the roadway for preferential use by bicyclists. Markings
88 inform all road users of the restricted nature of the bicycle lane.

89 **Standard:**

90 02 **Longitudinal pavement markings and bicycle lane symbol ~~or word~~ markings (see**
91 **Figure 9E-1(OR)) shall be used to define bicycle lanes. An 8-inch-wide longitudinal white line shall be**
92 **used to separate motor vehicle lanes from bicycle lanes traveling in the same direction.**

93 *Guidance:*

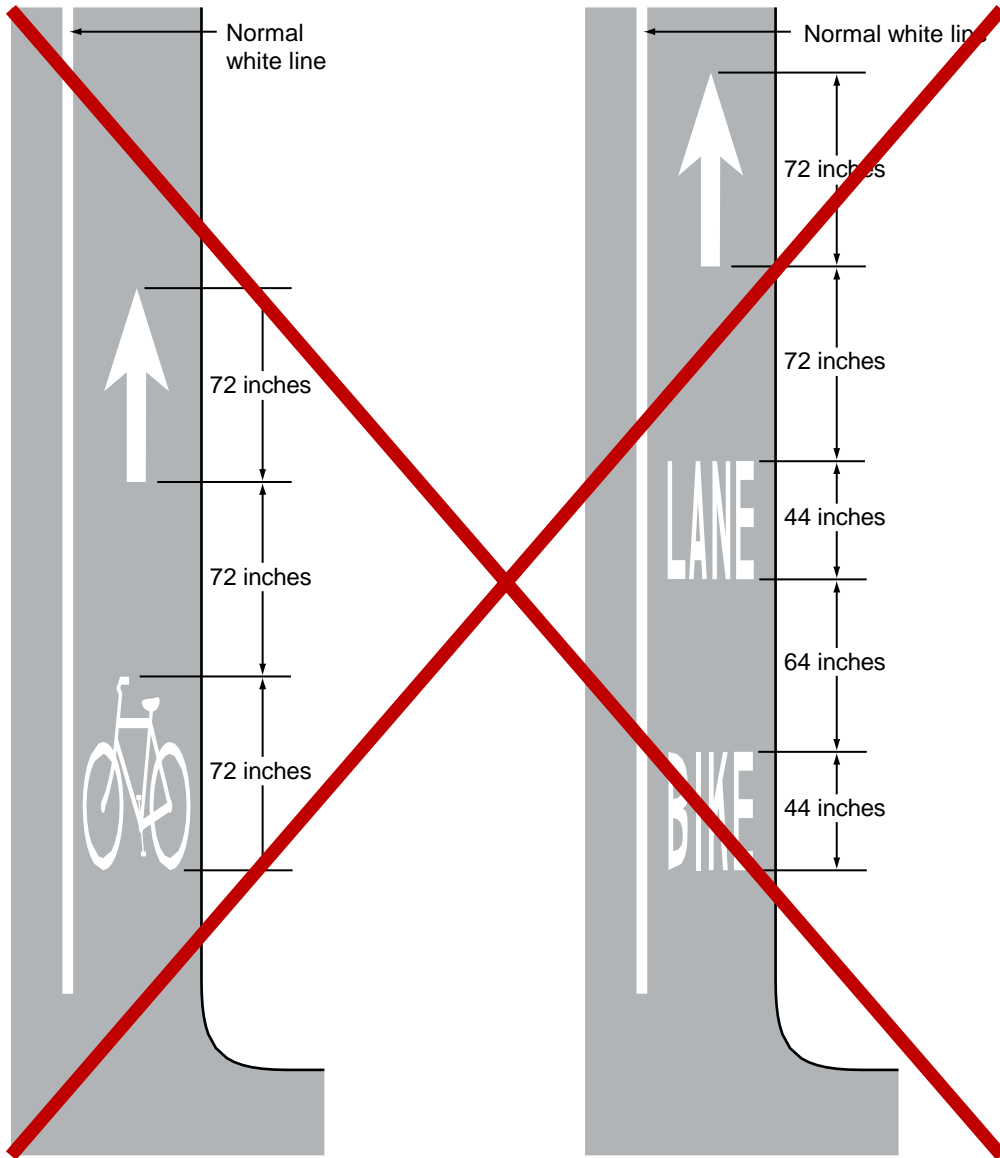
94 03 *The first symbol ~~or word~~ marking in a bicycle lane should be placed at the beginning of the bicycle lane*
95 *and downstream symbol ~~or word~~ markings should be placed after major intersections. Additional symbol ~~or~~*
96 *~~word~~ markings should be placed at periodic intervals along the bicycle lane based on engineering*
97 *judgment.*

98 **Option:**

99 04 *An arrow marking (see Figure 9E-1(OR)) ~~may~~ should be used in conjunction with the bicycle lane*
100 *symbol ~~or word~~ marking, placed downstream from the symbol ~~or word~~ marking.*

101

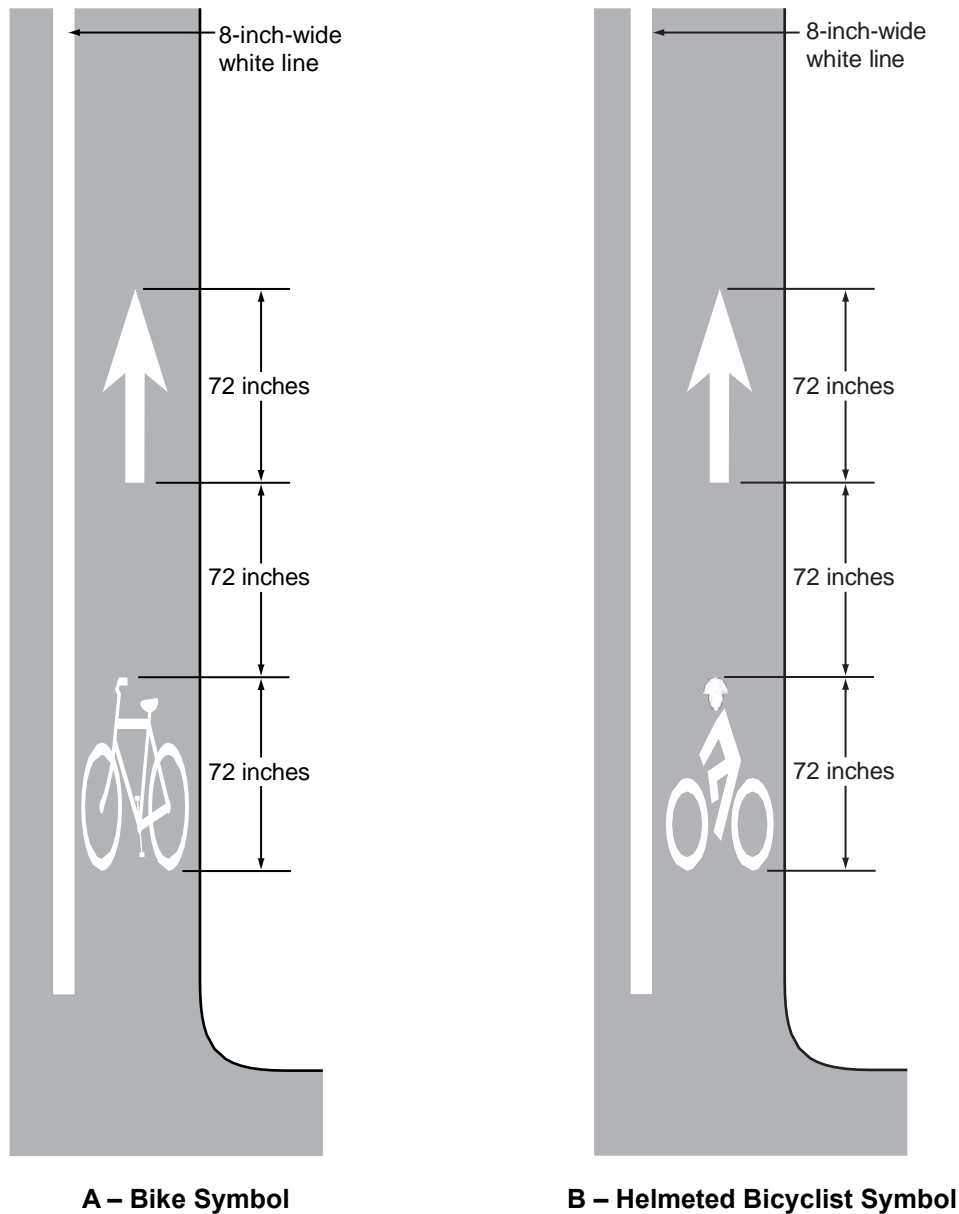
Figure 9E-1. Word, Symbol, and Arrow Pavement Markings for Bicycle Lanes



102

103

Figure 9E-1(OR). Symbol and Arrow Pavement Markings for Bicycle Lanes



104

105

106

107

Option:

108

109

110

05 Where the bicycle lane symbols ~~or word markings~~ are used, Bicycle Lane signs (see Section 9B.04) may also be used, but not necessarily adjacent to every set of pavement markings in order to avoid overuse of the signs.

111

Support:

112

06 Section 3H.06 contains information on green-colored pavement for use in bicycle lanes.

113 **Standard:**

114 07 **The bicycle symbol ~~or BIKE LANE pavement word~~ marking and the pavement marking arrow**
115 **shall not be used in a shoulder.**

116 08 **A portion of the roadway shall not be established as both a shoulder and a bicycle lane.**

117 Support:

118 09 Where a shoulder is provided or is of sufficient width to meet the expectation of a highway user in that
119 it can function as a space for emergency, enforcement, or maintenance activities, or avoidance or recovery
120 maneuvers, Section 9B.16 contains information regarding the Bicycles Use Shoulder Only sign that can be
121 used to denote locations on a freeway or expressway where bicycles are permitted on an available and
122 usable shoulder.

123 10 Examples of pavement markings for bicycle lanes on a two-way street are shown in Figure 9E-2.

124 **Section 9E.07 Separated Bicycle Lanes**

125 Support:

126 01 Separated bicycle lanes provide a physical separation between a general-purpose lane and a bicycle lane
127 through the use of vertical objects or vertical separation between the general-purpose lane and bicycle lane.
128 Providing a physical separation between a bicycle lane and a general-purpose lane can reduce vehicle
129 encroachment into the bicycle lane beyond a marked buffer alone and can in some cases prevent that
130 encroachment altogether.

131 02 Physical separation between general-purpose lanes and bicycle lanes introduces additional design
132 considerations over buffer-separated bicycle lanes, including the awareness of a potentially unexpected
133 conflict point for turning motor vehicles and the provision of adequate sight distance for all users at
134 intersections and driveway crossings.

135 Option:

136 03 Vertical elements used to provide physical separation between general-purpose lanes and bicycle lanes
137 may include, but are not limited to, tubular markers, raised islands, or parked vehicles.

138 Support:

139 04 Where on-street parking is provided adjacent to the buffer area of a separated bicycle lane, pedestrians
140 will need to access those vehicles.

141 *Guidance:*

142 05 *BIKE LANE (R3-17) signs (see Figure 9B-1) should be used to distinguish a separated bicycle lane*
143 *from a general-purpose lane.*

144 06 *Where an on-street parking lane serves as the separation between a general-purpose lane and a*
145 *separated bicycle lane, a buffer space should be provided between the parking lane and the bicycle lane to*
146 *allow for opening doors of parked vehicles.*

147 Support:

148 07 Separated bicycle lanes may be designed for one-way or two-way bicycle travel. Providing one-way
149 separated bicycle lanes in the same direction as and on the right-hand side of the general-purpose lane,
150 whether on a one-way or two-way roadway, accommodates the expectations of road users and might result
151 in fewer conflict points at intersections or driveway crossings.

152 Option:

153 08 Separated bicycle lanes may be provided on one or both sides of a roadway or in a center median.

154 Support:

155 09 The presence of two-way separated bicycle lanes on one side of a roadway or in a center median can
156 introduce additional challenges and conflict points, which can warrant additional design considerations
157 when selecting the design for a separated bicycle lane. These considerations include design requirements for
158 pedestrians who would interact with the separated bicycle lane.

159 **Standard:**

160 10 **The edge line and lane line colors used for separated bicycle lanes shall conform to the**
161 **requirements in Chapter 3A (see Figure 9E-7).**

162 11 **Directional arrows shall be used in conjunction with the bicycle lane symbol ~~or word marking~~ in**
163 **separated bicycle lanes, placed downstream from the symbol ~~or word marking~~.**

164 12 **Turns on red shall be prohibited across separated bicycle lanes while bicyclists are allowed to**
165 **proceed through the intersection.**

166 Support:

167 13 Additional information on signals for bicycle facilities is found in Chapter 4H.

168 **Standard:**

169 14 **The buffer space for a separated bicycle lane shall be marked with solid longitudinal lines.**

170 15 **A marked buffer space that is 2 feet or wider for a separated bicycle lane, including those buffer**
171 **spaces where tubular markers are provided, shall use chevron or diagonal markings within the**
172 **buffer, unless physical separation is provided that occupies the majority of the buffer space, such as**
173 **raised islands or other physical dividers, or such as where an on-street parking lane occupies the**
174 **majority of the buffer space.**

175 *Guidance:*

176 16 *Where used in the buffer area of a separated bicycle lane, the spacing of chevrons or diagonal*
177 *markings should be 10 feet or greater.*

178 17 *Crosswalks that cross a separated bicycle lane should be marked consistent with the style of crosswalk*
179 *marking provided across the adjacent general-purpose lane.*

180 Support:

181 18 Where on-street parking is provided as the physical separation adjacent to the buffer area of a separated
182 bicycle lane, the chevron or diagonal marking provisions in Section 9E.06 apply to the area outside of the
183 marked parking area within the buffer (see Figure 9E-7).

184 19 Intersection treatments for separated bicycle lanes can vary depending on the geometric and operational
185 conditions at the intersection (see Section 9E.02).



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 9E.02 – Bicycle Lanes at Intersection Approaches 9E.06 – Buffer-Separated Bicycle Lanes	Last Revised January 03, 2025	Proposal No. 11908
Supplement Team 9-Bicycles	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) 9E.02 Paragraph 11 recommends dotting bicycle lane lines on approaches to intersections where vehicles cross the path of bicycles. However, ORS 811.435 and ORS 811.440 do not allow for drivers to merge into the bicycle lane in preparation for a turn like in other states. This proposes modifying 9E.02 Paragraph 11 and adding a support paragraph to remain consistent with Oregon law. 9E.02 and 9E.06 only allow bicycle lanes to the outside of mandatory turn lanes if the conflict is signalized, ignoring this conflict at unsignalized intersections. This proposes modifying 9E.02 and 9E.06 to allow bicycle lanes to the outside of mandatory turn lanes provided other devices eliminate the conflict between bicycles and turning vehicles. This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005. The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement: <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 FHWA added guidance for the 11th Edition in 9E.02 Paragraph 11 that bicycle lane lines should be
3 dotted on approaches to intersections where turning vehicles are allowed to cross the path of through-
4 moving bicycles. ORS 811.440 allows drivers to operate on a bicycle lane when making a turn, not
5 when preparing to turn on the approach to an intersection.

6 FHWA also added content on separated bicycle lanes but did not clarify whether those types of bicycle
7 lanes can be positioned to the right of a right turn lane or left of a left turn lane without signalization.
8 Provisions in 9E.02 and 9E.06 only allow bicycle lanes to the outside of turn lanes if the conflict is
9 signalized. This excludes potential solutions to make this configuration safer at unsignalized
10 intersections, especially where the intersection does not meet warrants in Part 4.

11 Discussion

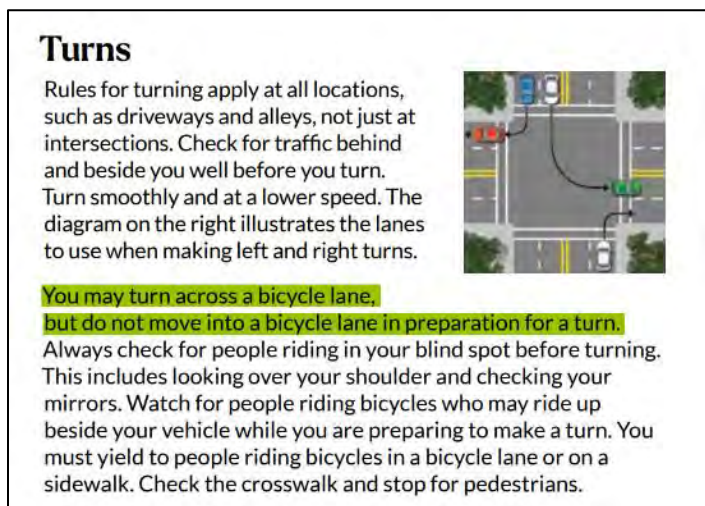
12 Dotted Bicycle Lane Lines on Intersection Approaches

13 The MUTCD has shown dotted lines for bicycle lanes on approaches to intersections since before the
14 1988 Edition. However, FHWA added guidance language about that practice in the 11th Edition.

15 Oregon has historically used solid bicycle lane lines on approaches to intersections. Drivers are allowed
16 to operate on a bicycle lane when making a turn under ORS 811.440 – not when preparing to make a
17 turn on the approach to the intersection – and drivers must yield to bicyclists in the bicycle lane under
18 ORS 811.050. Consistent with these statutes, Oregon’s Drivers’ Manual instructs drivers to not move
19 into a bicycle lane in preparation for a turn. This keeps the bicycle lane clear for bicyclists and keeps the
20 conflict with turning traffic at the intersection instead of with vehicles that may suddenly merge into
21 the bicycle lane ahead of the intersection.

22 Keeping the line solid to the intersection encourages drivers to stay out of the bicycle lane until the
23 intersection, consistent with these statutes and Drivers’ Manual instructions.

24 Figure 1: Excerpt from 2024-2025 Oregon Driver Manual, Page 38



25
26 Other states allow drivers to merge into the bicycle lane when preparing to turn at an intersection. For
27 example, California allows drivers to merge into the bicycle lane when preparing to turn within 200
28 feet from the intersection ([California VEH 21209](#)). The new guidance paragraph in the 11th Edition
29 would apply to California’s situation, but not Oregon’s. This proposes to change the new guidance to
30 be consistent with Oregon law and add a support paragraph explaining the modification.

31 If this proposal is acceptable, the following figures will need to be modified to show solid lines on
32 intersection approaches: 9B-5, 9D-2, 9D-3, 9D-7, 9E-2, 9E-3, 9E-8, 9E-10, 9E-12.

811.050 Failure to yield to rider on bicycle lane; penalty.

- (1) A person commits the offense of failure of a motor vehicle operator to yield to a rider on a bicycle lane if the person is operating a motor vehicle and the person does not yield the right of way to a person operating a bicycle, electric assisted bicycle, electric personal assistive mobility device, moped, motor assisted scooter or motorized wheelchair upon a bicycle lane.
- (2) This section does not require a person operating a moped to yield the right of way to a bicycle or a motor assisted scooter if the moped is operated on a bicycle lane in the manner permitted under ORS 811.440.
- (3) The offense described in this section, failure of a motor vehicle operator to yield to a rider on a bicycle lane, is a Class B traffic violation.

33

811.435 Operation of motor vehicle on bicycle trail; exemptions; penalty.

- (1) A person commits the offense of operation of a motor vehicle on a bicycle trail if the person operates a motor vehicle upon a bicycle lane or a bicycle path.
- (2) Exemptions to this section are provided under ORS 811.440.
- (3) This section is not applicable to mopeds. ORS 811.440 and 814.210 control the operation and use of mopeds on bicycle lanes and paths.
- (4) The offense described in this section, operation of a motor vehicle on a bicycle trail, is a Class B traffic violation.

34

811.440 When motor vehicles may operate on bicycle lane.

This section provides exemptions from the prohibitions under ORS 811.435 and 814.210 against operating motor vehicles on bicycle lanes and paths. The following vehicles are not subject to ORS 811.435 and 814.210 under the circumstances described:

- (1) A person may operate a moped on a bicycle lane that is immediately adjacent to the roadway only while the moped is being exclusively powered by human power.
- (2) A person may operate a motor vehicle upon a bicycle lane when:
 - (a) Making a turn;
 - (b) Entering or leaving an alley, private road or driveway; or
 - (c) Required in the course of official duty.
- (3) An implement of husbandry may momentarily cross into a bicycle lane to permit other vehicles to overtake and pass the implement of husbandry.
- (4) A person may operate a motorized wheelchair on a bicycle lane or path.
- (5) A person may operate a motor assisted scooter on a bicycle lane or path.
- (6) A person may operate an electric personal assistive mobility device on a bicycle lane or path.

35 **Bicycle Lanes to the Outside of Turn Lanes**

36 Section 9E.02 Paragraph 01 is a standard that prohibits a through bicycle lane from being positioned to
37 the right of a right turn only lane or the left of a left turn only lane. Paragraph 02 is an option that
38 allows this configuration if the conflict is controlled by a bicycle signal. Section 9E.06 includes a similar
39 but different provision for buffer-separated bicycle lanes in Paragraph 07 that requires a bicycle signal
40 and signs. This topic is not covered in Section 9E.07 for separated bicycle lanes.

41 The MUTCD option to position a bicycle lane to the outside of a turn lane – and how to treat that
42 conflict – should be consistent across bicycle lane types. To accommodate variable urban site needs,
43 including at unsignalized intersection, it should describe the desired outcome (elimination of conflicts
44 for safety) and let the engineer apply the devices needed to achieve that outcome.

45 **Figure 2: MUTCD 11th Edition, Section 9E.02 (Bicycle Lanes at Intersection Approaches)**

Section 9E.02 Bicycle Lanes at Intersection Approaches

Standard:

01 Except as provided in Paragraph 2 of this Section, a through bicycle lane shall not be positioned to the
right of a right turn only lane or to the left of a left turn only lane.

Option:

02 A through bicycle lane may be positioned to the right of a right turn only lane or to the left of a left turn only
lane provided that the bicycle lane is controlled by a traffic signal that displays bicycle signal indications (see
Chapter 4H).

46

47 **Figure 3: MUTCD 11th Edition, Section 9E.07 (Buffer-Separated Bicycle Lanes)**

MUTCD 11th Edition

Page 1097

Standard:

06 Except as provided in Paragraph 7 of this Section, a through buffer-separated bicycle lane shall not be
positioned to the right of a mandatory right-turn lane or to the left of a mandatory left-turn lane.

Option:

07 A buffer-separated bicycle lane may be placed to the right of a mandatory right-turn lane (or to the left of
a mandatory left-turn lane) only if a bicycle signal face (see Section 4H.01) is used and the signal phasing and
signing eliminates any potential conflicts between the bicycle movement and the turning movement.

48

49 There are cases where bicycle lanes – especially separated bicycle lanes – must be positioned to the
50 right of a right turn lane or left of a left turn lane. Not all these cases require signalization, nor would
51 all these cases meet warrants for signalization in Part 4. Figure 5 through Figure 7 show examples of
52 these situations. In these cases, drivers must yield to bicyclists in the bicycle lane per ORS 811.050.

811.050 Failure to yield to rider on bicycle lane; penalty.

- (1) A person commits the offense of failure of a motor vehicle operator to yield to a rider on a bicycle lane if the person is operating a motor vehicle and the person does not yield the right of way to a person operating a bicycle, electric assisted bicycle, electric personal assistive mobility device, moped, motor assisted scooter or motorized wheelchair upon a bicycle lane.
- (2) This section does not require a person operating a moped to yield the right of way to a bicycle or a motor assisted scooter if the moped is operated on a bicycle lane in the manner permitted under ORS 811.440.

(3) The offense described in this section, failure of a motor vehicle operator to yield to a rider on a bicycle lane, is a Class B traffic violation. [1983 c.338 §698; 1985 c.16 §336; 1991 c.417 §4; 1997 c.400 §8; 2001 c.749 §23; 2003 c.341 §7]

53 While Sections 9E.02 and 9E.07 do not explicitly include an exception to the Paragraph 01 standard for
54 separated bicycle lanes, 9E.02 Paragraphs 12-18, and 9E.07 Paragraph 19 says intersection treatments
55 for separated bicycle lanes can vary depending on the geometric and operational conditions at the
56 intersection, referring to Section 9E.02.

57 At signalized intersections, Section 9E.07 Paragraph 12 prohibits turns on red across separated bicycle
58 lanes while bicyclists are allowed to continue straight through the intersection. In these cases, the
59 intersection is already signalized so this clarifies operations at the signal.

60 ORS 814.420 allows bicyclists to move out of a bicycle lane to avoid turning conflicts if the bicycle lane
61 is to the right of a right turn lane. Moving out of a bicycle lane – especially a separated bicycle lane – is
62 not always possible. Traffic control devices (bicycle signal or signs/markings) can clarify who has
63 priority and improve road user understanding of how to navigate these conflict points.

814.420 Failure to use bicycle lane or path; exceptions; penalty.

- (1) Except as provided in subsections (2) and (3) of this section, a person commits the offense of failure to use a bicycle lane or path if the person operates a bicycle on any portion of a roadway that is not a bicycle lane or bicycle path when a bicycle lane or bicycle path is adjacent to or near the roadway.
- (2) A person is not required to comply with this section unless the state or local authority with jurisdiction over the roadway finds, after public hearing, that the bicycle lane or bicycle path is suitable for safe bicycle use at reasonable rates of speed.
- (3) A person is not in violation of the offense under this section if the person is able to safely move out of the bicycle lane or path for the purpose of:
 - (a) Overtaking and passing another bicycle, a vehicle or a pedestrian that is in the bicycle lane or path and passage cannot safely be made in the lane or path.
 - (b) Preparing to execute a left turn at an intersection or into a private road or driveway.
 - (c) Avoiding debris or other hazardous conditions.
 - (d) Preparing to execute a right turn where a right turn is authorized.
 - (e) Continuing straight at an intersection where the bicycle lane or path is to the right of a lane from which a motor vehicle must turn right.
- (4) The offense described in this section, failure to use a bicycle lane or path, is a Class D traffic violation. [1983 c.338 §700; 1985 c.16 §338; 2005 c.316 §3]

64

65 **Figure 4: MUTCD 11th Edition, Section 9E.07, Paragraphs 12-18**

MUTCD 11th Edition	Page 1093
Support:	
12	Buffer-separated and separated bicycle lanes require additional considerations at intersections, including sight distances for bicycles and other road users, user expectations, and intersection geometry.
Option:	
13	A buffer-separated or separated bicycle lane may be shifted closer to, or farther away from the adjacent general-purpose lane depending upon site-specific conditions (see Drawings D and E in Figure 9E-7).
Support:	
14	A buffer-separated or separated bicycle lane shifted away from the adjacent general-purpose lane at an intersection can create space for a motor vehicle to queue between the general-purpose lane and the extension of the bicycle lane. This design can also improve the safety and comfort of bicyclists by reducing the speed of turning motor vehicles, improving sightlines, and creating additional buffer space prior to the conflict point with turning motor vehicles.
15	The purpose of shifting a buffer-separated or separated bicycle lane away from the adjacent general-purpose lane is to allow the driver of a turning vehicle to undertake the tasks of turning and scanning for bicycle cross traffic in isolation versus simultaneously. Sufficient sight distance for both drivers and bicyclists is important in this design (see Drawing E in Figure 9E-7).
16	The purpose of shifting a buffer-separated or separated bicycle lane toward the adjacent general-purpose lane is to improve the visibility of bicyclists to the adjacent traffic and avoid conflicts between turning motor vehicles and bicyclists (see Drawing D in Figure 9E-7).
17	Staggering stop lines (see Section 3B.19) so that general-purpose lanes stop further in advance from the intersection than the bicycle lane can improve the visibility of bicyclists for drivers of turning vehicles (see Drawing D in Figure 9E-7).
Option:	
18	Where a general-purpose mandatory turn lane is provided at an intersection and the approach also includes a separated or buffer-separated bicycle lane, a mixing zone may be established to allow general-purpose turning traffic to share the roadway space with bicyclists (see Figure 9E-5).

66

67 **Figure 5: Right-Turn Only Lane at “Protected” Intersection**



68

69 **Figure 6: Separated Bicycle Lane crossing an Exit Ramp**



70

71 **Figure 7: Separated Bicycle Lane (curb-separated) to the Right of a Right Turn Lane (right-in-**
72 **right-out)**



73

74 Proposed Supplement Content

75 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
76 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

77 NOTE: If this proposal is acceptable, the following figures will be modified to show solid lines on
78 intersection approaches: 9B-5, 9D-2, 9D-3, 9D-7, 9E-2, 9E-3, 9E-8, 9E-10, 9E-12.

79 CHAPTER 9E. MARKINGS

80 Section 9E.02 Bicycle Lanes at Intersection Approaches

81 Standard:

82 01 Except as provided in Paragraph 2 of this Section, a through bicycle lane shall not be positioned
83 to the right of a right turn only lane or to the left of a left turn only lane.

84 Option:

85 02 A through bicycle lane may be positioned to the right of a right turn only lane or to the left of a left turn
86 only lane provided that traffic control devices, such as a bicycle signal (see Chapter 4H), eliminate any
87 potential conflicts between the bicycle movement and the turning movement (see Sections 9B.01 and
88 9E.03). ~~the bicycle lane is controlled by a traffic signal that displays bicycle signal indications (see Chapter~~
89 ~~4H).~~

90 Support:

91 03 Unless controlled by a bicycle signal indication or other traffic control device, a bicyclist continuing
92 straight through an intersection from the right of a right turn only lane or from the left of a left turn only
93 lane would be inconsistent with normal traffic behavior and would violate the expectations of right-turning
94 or left-turning motorists. ORS 811.050 requires drivers to yield to bicyclists in a bicycle lane.

95 Guidance:

96 04 *When the right (left) through lane is dropped to become a mandatory right-turn (left-turn) lane, the*
97 *bicycle lane markings should stop at least 100 feet before the beginning of the right-turn (left-turn) lane.*
98 *Through bicycle lane markings should resume to the left (right) of the mandatory right-turn (left-turn) lane.*

99 05 *Except as provided in Paragraph 2 of this Section, an optional through-right (through-left) turn lane*
100 *next to a mandatory right-turn (left-turn) lane should not be used where there is a through bicycle lane.*

101 Standard:

102 06 **A bicycle lane located on an intersection approach between general-purpose lanes for motor**
103 **vehicle movements shall be marked with at least one bicycle symbol and at least one arrow pavement**
104 **marking as provided in Paragraph 4 of Section 9E.01.**

105 07 **A bicycle lane shall not be marked within a general-purpose lane, either with dotted or any other**
106 **line markings.**

107 Option:

108 08 Where there is insufficient width in the roadway to include both a bicycle lane and a general-purpose
109 turn lane, bicycle travel may be accommodated within the turn lane or general-purpose lane using shared-
110 lane markings.

111 **Standard:**

112 09 **Where a general-purpose turn lane is controlled by a traffic control signal, through bicycle**
113 **movements shall not be accommodated in the turn lane unless the turning movement is always**
114 **permitted to proceed simultaneously with the adjacent through movement.**

115 Support:

116 10 Examples of bicycle lane markings on approaches to intersections are shown in Figures 9E-3, 9E-4, and
117 9E-9.

118 *Guidance:*

119 11 *The longitudinal line defining a bicycle lane should be ~~dotted~~ solid on approaches to intersections*
120 *where turning vehicles are permitted to cross the path of through-moving bicycles (see Figure 9D-7).*

121 Support:

122 12 Buffer-separated and separated bicycle lanes require additional considerations at intersections,
123 including sight distances for bicycles and other road users, user expectations, and intersection geometry.

124 12a ORS 811.435 and ORS 811.440 do not allow drivers to merge into a bicycle lane in preparation for a
125 turn.

126 Option:

127 13 A buffer-separated or separated bicycle lane may be shifted closer to, or farther away from the adjacent
128 general-purpose lane depending upon site-specific conditions (see Drawings D and E in Figure 9E-7).

129 Support:

130 14 A buffer-separated or separated bicycle lane shifted away from the adjacent general-purpose lane at an
131 intersection can create space for a motor vehicle to queue between the general-purpose lane and the
132 extension of the bicycle lane. This design can also improve the safety and comfort of bicyclists by reducing
133 the speed of turning motor vehicles, improving sightlines, and creating additional buffer space prior to the
134 conflict point with turning motor vehicles.

135 15 The purpose of shifting a buffer-separated or separated bicycle lane away from the adjacent general-
136 purpose lane is to allow the driver of a turning vehicle to undertake the tasks of turning and scanning for
137 bicycle cross traffic in isolation versus simultaneously. Sufficient sight distance for both drivers and
138 bicyclists is important in this design (see Drawing E in Figure 9E-7).

139 16 The purpose of shifting a buffer-separated or separated bicycle lane toward the adjacent general-
140 purpose lane is to improve the visibility of bicyclists to the adjacent traffic and avoid conflicts between
141 turning motor vehicles and bicyclists (see Drawing D in Figure 9E-7).

142 17 Staggering stop lines (see Section 3B.19) so that general-purpose lanes stop further in advance from the
143 intersection than the bicycle lane can improve the visibility of bicyclists for drivers of turning vehicles (see
144 Drawing D in Figure 9E-7).

145 Option:

146 18 Where a general-purpose mandatory turn lane is provided at an intersection and the approach also
147 includes a separated or buffer-separated bicycle lane, a mixing zone may be established to allow general-
148 purpose turning traffic to share the roadway space with bicyclists (see Figure 9E-5).

149 **Standard:**

150 19 **Mixing zones shall be used only where the bicycle lane is one-way in the same direction of travel**
151 **as the adjacent general-purpose lane.**

152 20 **Mixing zones with a yielding area shall have yield markings indicating where general-purpose**
153 **traffic entering the shared space shall yield to bicyclists.**

154 21 **Where a mixing zone continues to the intersection itself sharing space between bicyclists and**
155 **general purpose turning traffic, shared-lane markings and turn arrows shall be provided in the lane.**

156 Support:

157 22 Mixing zones require bicycles and general traffic to share space, interrupting a buffer-separated or
158 separated bicycle lane where bicycle traffic is otherwise separated from general traffic. The preference is to
159 provide a dedicated bicycle facility for the intersection approach. If that is not possible, the mixing zone
160 needs to indicate that bicyclists and motorists are entering a shared condition.

161 *Guidance:*

162 23 *Where a mixing zone provides for the re-establishment of a bicycle lane after bicycles and general-*
163 *purpose lanes cross paths, a buffered or physically-separated space should be provided between the bicycle*
164 *lane and the adjacent general-purpose lane (see Drawing C in Figure 9E-5).*

165 **Section 9E.06 Buffer-Separated Bicycle Lanes**

166 Support:

167 01 Buffer-separated bicycle lanes provide additional lateral separation between a bicycle lane and a general
168 purpose lane by a pattern of pavement markings without the presence of vertical elements. Providing a
169 buffer space between a bicycle lane and a general-purpose lane creates more separation between motor
170 vehicles and bicycles, can reduce vehicle encroachment into the bicycle lane, and can increase the comfort
171 of bicyclists.

172 02 Providing a buffer space between a bicycle lane and a parking lane can reduce crashes involving
173 bicycles and the opening of vehicle doors from the parking lane.

174 **Standard:**

175 03 **If used, and except as provided in Paragraph 5 of this Section, a buffer space shall be marked**
176 **with a solid white line along both edges of the buffer space where crossing is discouraged.**

177 *Guidance:*

178 04 *Engineering judgment should be used to establish intermittent breaks or interruptions in the buffer*
179 *space, such as for driveways, transit stops, or on-street parallel parking lanes, in order to convey access*
180 *points or an otherwise general legal movement to cross the buffer space (see Figure 9E-6).*

181 Option:

182 05 Buffer spaces may be established without specific longitudinal lines if contiguous facilities have
183 longitudinal lines or other pavement markings themselves that, when installed, automatically demarcate the
184 buffer space (see Drawing D in Figure 9E-6).

185 **Standard:**

186 06 **Except as provided in Paragraph 7 of this Section, a through buffer-separated bicycle lane shall**
187 **not be positioned to the right of a mandatory right-turn lane or to the left of a mandatory left-turn**
188 **lane.**

189 Option:

190 07 A buffer-separated bicycle lane may be placed to the right of a mandatory right-turn lane (or to the left
191 of a mandatory left-turn lane) only if [traffic control devices, such as](#) a bicycle signal face (see Section
192 4H.01), ~~is used and the signal phasing and signing~~ eliminates any potential conflicts between the bicycle
193 movement and the turning movement ([see Sections 9B.01 and 9E.03](#)).

194 *Guidance:*

195 08 *The width of the buffer space should be at least 3 times the width of the normal or wide longitudinal*
196 *line used to mark the buffer space.*

197 09 *Where a buffer space is 2 to 3 feet wide, chevron or diagonal markings (see Section 3B.25) should be*
198 *applied within the buffer space.*

199 Option:

200 10 Where a buffer space is less than 2 feet wide, diagonal markings or no markings at all in the buffer
201 space may be applied within the buffer space.

202 **Standard:**

203 11 **If used, diagonal markings shall slant away from traffic in the adjacent travel lane for motor**
204 **vehicle traffic.**

205 *Guidance:*

206 12 *Where used, the spacing of chevrons or diagonal markings should be 10 feet or greater.*

207 Support:

208 13 Chevron and diagonal markings convey that the buffer space is not an additional bicycle lane or other
209 travel lane open to traffic.

210 **Standard:**

211 14 **Where a buffer space is more than 3 feet wide, chevron or diagonal markings shall be applied**
212 **within the buffer space.**

213 *Guidance:*

214 15 *Lane extension markings should be used to extend a buffer-separated bicycle lane across intersections*
215 *and driveways.*



OREGON TRAFFIC CONTROL DEVICES COMMITTEE
OREGON SUPPLEMENT TO THE MUTCD 11th EDITION
SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 9E.12 – Bicycle Box	Last Revised January 03, 2025	Proposal No. 11909
Supplement Team 9-Bicycles	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) Section 9E.12 Paragraph 05 says a bicycle box should not be contiguous with a crosswalk. This aligns the stop position of the bike box with the intersection stop line. However, the Oregon Supplement has historically allowed the marked crosswalk to be the intersection stop line, meaning the bike box and adjacent traffic lane would have different stop positions. This proposes to allow bike boxes to be contiguous to marked crosswalks so the box’s stop position can be the intersection stop line.		
This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.		
The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement: <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 [Editor’s note: this is related to Proposal 11302. If Proposal 11302 is not incorporated into the
2 Supplement, this proposal becomes moot and will be dropped.]

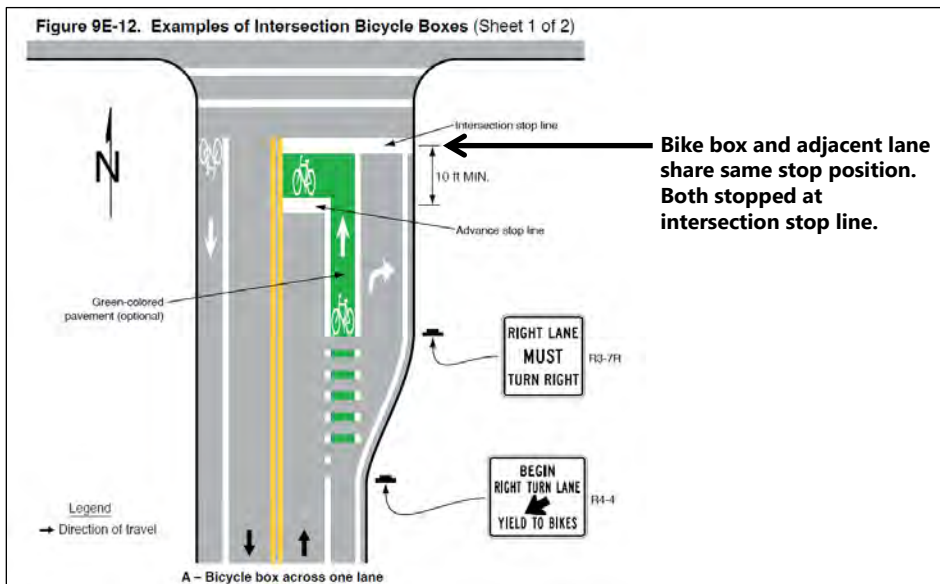
3 **Problem**

4 Section 9E.12 Paragraph 05 says a bicycle box should not be contiguous with a crosswalk, and a stop
5 line on the downstream end of the bicycle box should be used to mark the location where bicycles are
6 required to stop. However, Oregon has a long-standing practice (through Part 3 Oregon Supplement to
7 the MUTCD) of using the marked crosswalk as the intersection’s stop line (as in Proposal 11302).

8 **Discussion**

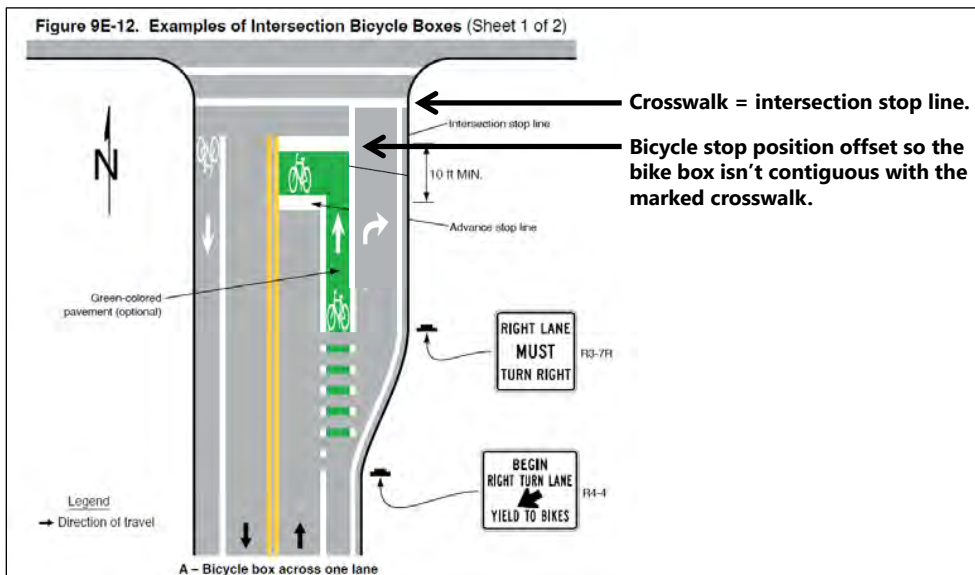
9 The guidance statement in 9E.12 Paragraph 05 aligns the top edge of the bicycle box (where bicycles are
10 required to stop) with the adjacent lane’s stop line, consistent with Section 3B.19 Paragraph 04, shown
11 in Figure 1. The bike box and adjacent lane share the same stop position – the intersection stop line.

12 **Figure 1: MUTCD layout, intersection stop line separate from marked crosswalk**



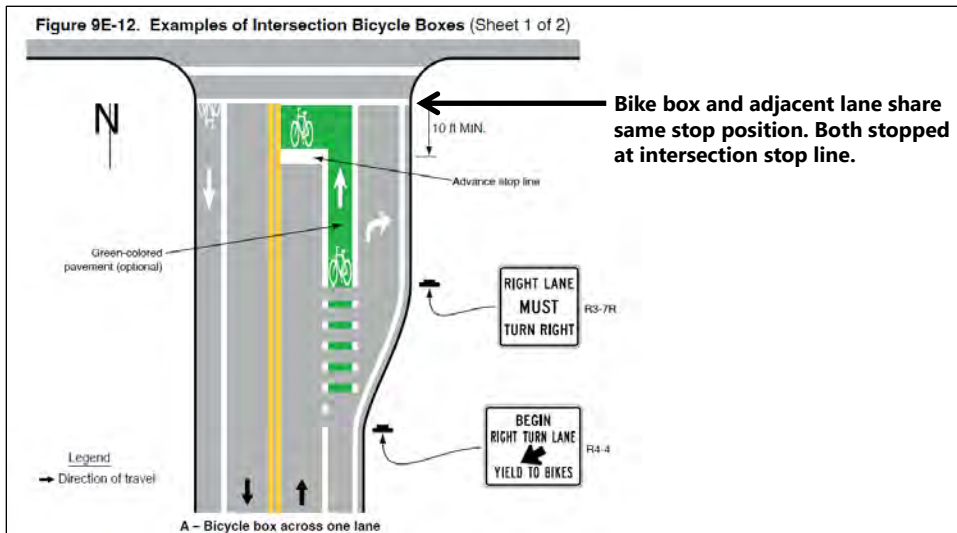
13
14 However, Oregon has a long-standing practice (through Part 3 Oregon Supplement to the MUTCD, see
15 Proposal No. 11302) of using the marked crosswalk as the intersection's stop line. If the marked
16 crosswalk is the intersection's stop line, but the bike box should not be contiguous with the crosswalk
17 (as recommended in Section 9E.12 Paragraph 05), then the stop line for bicycles should be further back
18 than the intersection stop line, shown in Figure 2. In some lane configurations, this could hide people
19 on bikes behind adjacent motor vehicles from the view of cross traffic. It would also increase the time
20 for people on bikes to finish crossing the intersection from a stop because they would be starting
21 further from the intersection.

22 **Figure 2: MUTCD layout, intersection stop line is the marked crosswalk**



24 If the marked crosswalk is the intersection’s stop line, then the Oregon Supplement should allow bike
25 boxes to be contiguous with the marked crosswalk so the bike box and adjacent lane stop positions can
26 share the same stop position – the intersection stop line – shown in Figure 3. This is how road
27 authorities have installed bicycle boxes in Oregon to date. Figure 4 shows an example. This is also
28 supported by the support statement in 9E.02 Paragraph 17: “Staggering stop lines (see Section 3B.19) so
29 that general-purpose lanes stop further in advance from the intersection than the bicycle lane can
30 improve the visibility of bicyclists for drivers of turning vehicles (see Drawing D in Figure 9E-7).”

31 **Figure 3: Proposed Oregon Supplement layout, intersection stop line is the marked crosswalk**



32

33 **Figure 4: Example of existing bike box layout in Portland, intersection stop line is the**
34 **marked crosswalk**



35

36 Proposed Supplement Content

37 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
38 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

39 CHAPTER 9E. MARKINGS

40 Section 9E.12 Bicycle Box

41 Option:

42 01 A bicycle box (see Figure 9E-12(OR)) may be used to increase the visibility of stopped bicycles on the
43 approach to a signalized intersection during the portion of the signal cycle when a red signal indication is
44 being displayed to motor vehicles in the approach lane(s) that is behind the box.

45 *Guidance:*

46 02 *Providing a bicycle box on a signalized intersection approach where a discernible number of conflicts*
47 *between vehicles turning across through bicycles in a bicycle lane has been demonstrated during the green*
48 *interval of a signal should be evaluated based on engineering judgment or study.*

49 03 *Other treatments should be considered for conflicts between turning vehicles and through bicycles such*
50 *as using leading or exclusive signal phases, or separating turning traffic from through traffic through*
51 *mandatory turn lanes.*

52 04 *A bicycle lane should be used on the approach to a bicycle box.*

53 05 ~~*A bicycle box should not be contiguous with a crosswalk. A stop line on the downstream end of the*~~
54 ~~*bicycle box should be used to mark the location where bicycles are required to stop.*~~

55 **Standard:**

56 06 **If used, the distance from the upstream edge of the bicycle box that is nearest to the stop line for**
57 **motor vehicles to the downstream edge of the bicycle box that is nearest the crosswalk or intersection**
58 **shall be at least 10 feet. At least one bicycle symbol marking (see Figure 9E-12(OR)) shall be used in**
59 **the bicycle box.**

60 07 **Where an existing stop line for motor vehicles is relocated upstream to install a new bicycle box,**
61 **the yellow change and red clearance intervals (see Section 4F.17) shall be recalculated and if**
62 **necessary, reprogrammed to accommodate the length of the bicycle box.**

63 08 **Countdown pedestrian signals (see Section 4I.04) for the crosswalk or pedestrian crossing**
64 **movement that crosses the approach shall accompany bicycle boxes that extend across more than one**
65 **approach lane for motor vehicles. Countdown pedestrian signals used with bicycle boxes shall display**
66 **the pedestrian change interval countdown without the need for actuation.**

67 09 **Turns on red shall be prohibited from the lane where a bicycle box is placed.**

68 Support:

69 10 Countdown pedestrian signals can inform bicyclists whether there is adequate time remaining to an
70 adjacent lane before the onset of the green signal phase for that approach.

71 *Guidance:*

72 11 *Countdown pedestrian signals for the crosswalk or pedestrian crossing movement that crosses the*
73 *approach should accompany single-lane bicycle boxes where it is demonstrated that bicycles arrive at the*
74 *intersection at or near the end of the red signal indication being displayed to traffic in the approach lane(s)*
75 *that is behind the box.*

76 Option:

77 12 Green-colored pavement may be used in a bicycle box.

78 **Standard:**

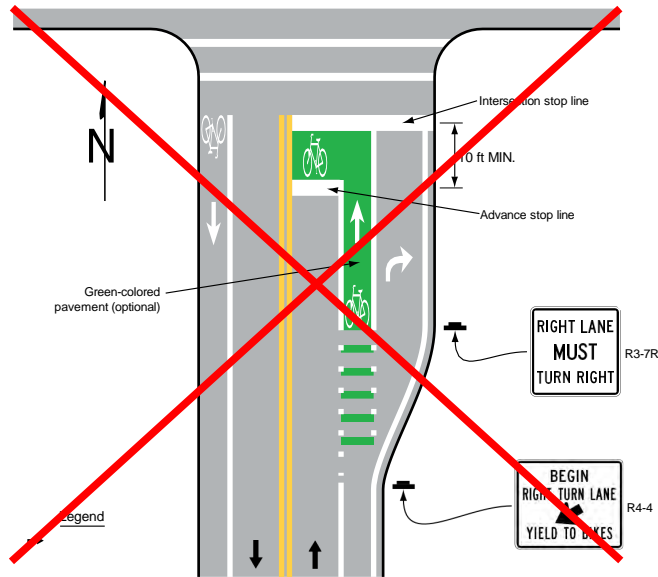
79 13 **If used, green-colored pavement shall be used in the full limits of the bicycle box.**

80 Support:

81 14 Section 9B.02 contains information on the EXCEPT BICYCLES (R3-7bP) regulatory plaque that can
82 be used below the STOP HERE ON RED (R10-6 or R10-6a) sign (see Section 2B.59) to exempt bicyclists
83 from the requirement of the advance stop line.

84

Figure 9E-12. Examples of Intersection Bicycle Boxes (Sheet 1 of 2)



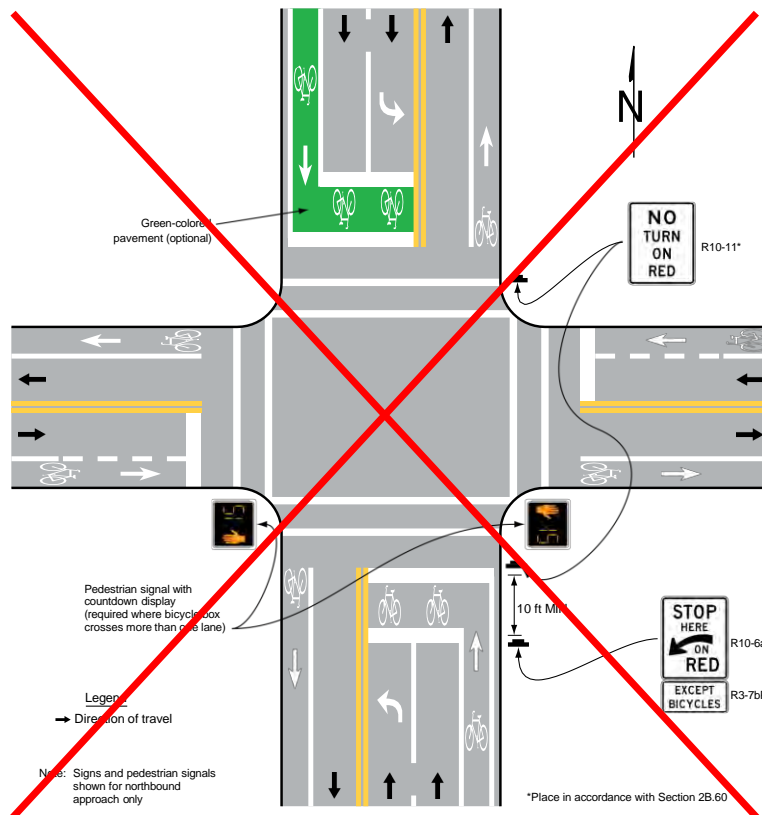
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86

A – Bicycle box across one lane

87

Figure 9E-12. Examples of Intersection Bicycle Boxes (Sheet 2 of 2)



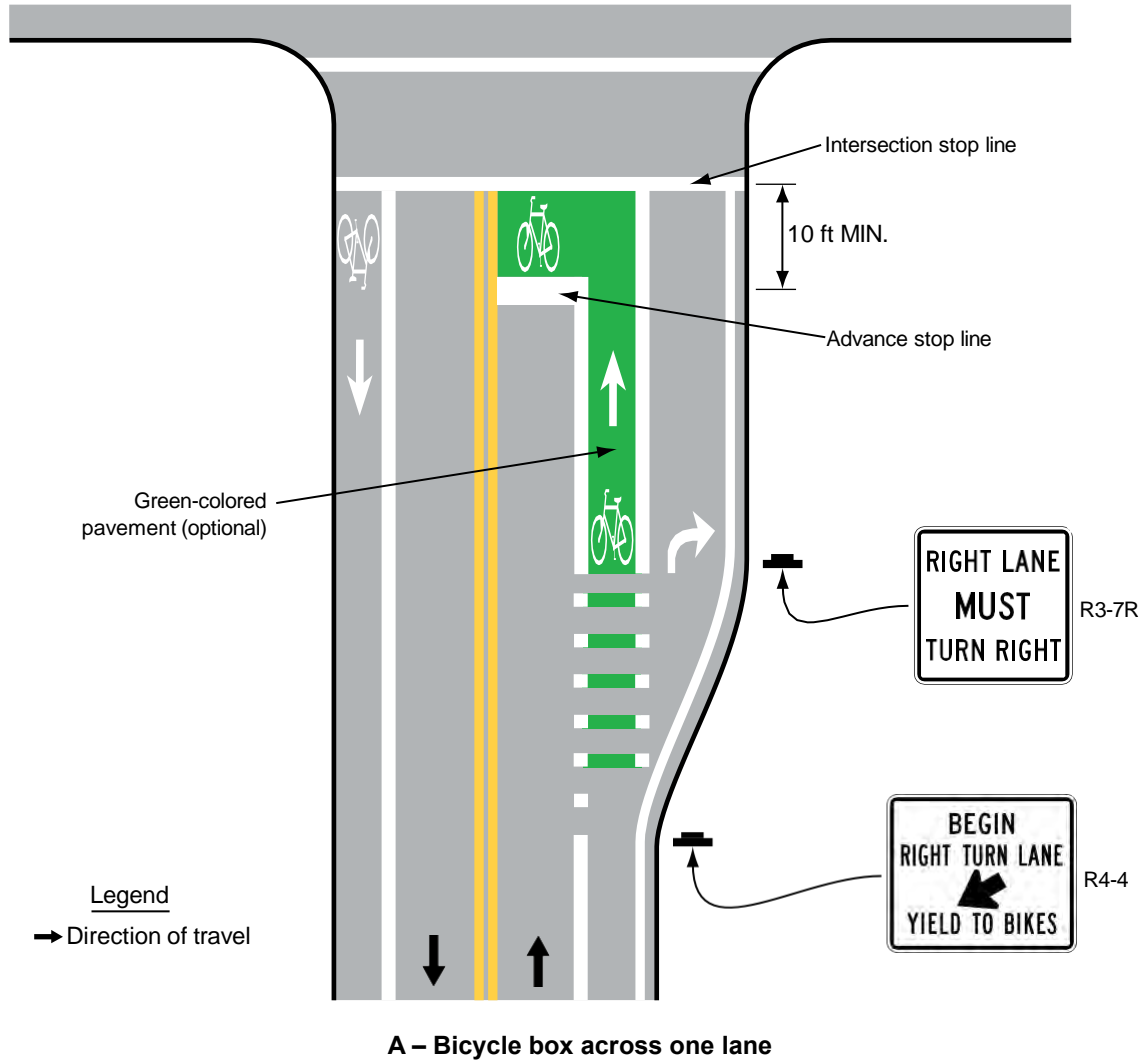
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89

B – Bicycle box across multiple lanes

90

Figure 9E-12(OR). Examples of Intersection Bicycle Boxes (Sheet 1 of 2)

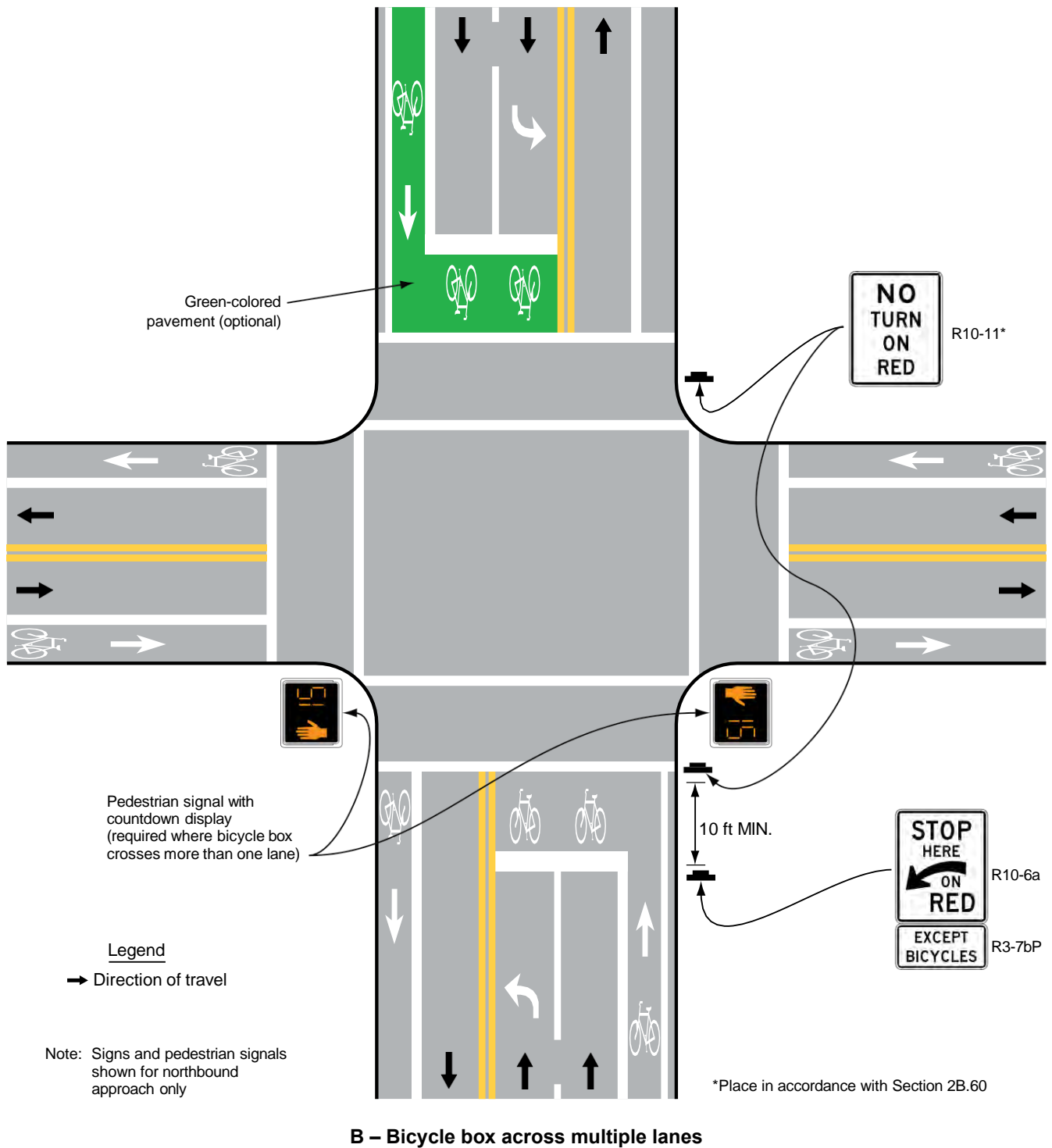


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Figure 9E-12(OR). Examples of Intersection Bicycle Boxes (Sheet 2 of 2)



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OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 9E.13 – Shared Use Paths	Last Revised January 03, 2025	Proposal No. 11910
Supplement Team 9-Bicycles	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) FHWA added a new standard in 9E.13 that where a shared-use path crosses a roadway, crosswalk markings shall be used. However, crosswalk markings are not necessary to create the crossing in all cases – crosswalks can be marked or unmarked at intersections in Oregon under ORS 801.220, bicyclists can cross in crosswalks under ORS 814.410, and pedestrians can cross where a crosswalk does not exist if the pedestrian yields to vehicles under ORS 814.040. This proposes to remove the standard and refer practitioners to other MUTCD sections that cover the application of crosswalk markings and assigning priority at shared-use path crossings. This also proposes to add details for smaller modal markings for shared-use paths.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 FHWA added a new standard in 9E.13 that where a shared-use path crosses a roadway, crosswalk
3 markings shall be used. This requires road authorities to mark a crosswalk, even if they do not have
4 resources to enhance the crossing with other traffic control devices to improve safety, as recommended
5 in Section 3C.02.

6 Discussion

7 Shared-use paths are used in a variety of contexts in Oregon:

- 8 • Urban core (e.g. Eastbank Esplanade in downtown Portland),
- 9 • Suburban (e.g. Hunsacker Path in Corvallis, Amazon Trail in Eugene, Leo Alder Parkway in
10 Baker City, Bear Creek Greenway in the Rogue Valley), and

- 11 • Rural (e.g. Row River Trail in Lane County, Banks-Vernonia State Trail in Washington and
12 Columbia Counties, Historic Columbia River Highway State Trail in Multnomah and Hood
13 River Counties).

14 These facilities parallel streets and highways and can be on their own alignment. Shared-use paths
15 often use the crosswalks at intersections to cross streets and highways.

16 FHWA added a new standard in 9E.13 that where a shared-use path crosses a roadway, crosswalk
17 markings shall be used. FHWA did not explain this change in the NPA for the 11th Edition, nor in the
18 Summary of Dispositions for the 11th Edition (Item 635), just that the changes were adopted as
19 proposed “to provide additional design options for pavement markings,” even though the standard
20 does not create an optional condition.

21 **Figure 1: FHWA Summary of Final Rule Dispositions for MUTCD 11th Edition, Item 635**

635	In Section 9E.13 (existing Section 9C.03), retitled, “Shared-Use Paths,” FHWA proposes a new Option and Standard, and accompanying figure, to provide additional design options for pavement markings.	The changes are adopted as proposed.
	FHWA also proposes a new Guidance that the crossing areas for bicyclists should use green-colored pavement in order to distinguish between the crosswalk for pedestrians and the crossing area for bicyclists. FHWA proposes this new Guidance in concert with the proposal to add green-colored pavement for bicycle facilities.	

22
23 Eric Leaming asked the FHWA MUTCD Team for clarification. Ashley Timm of the MUTCD Team
24 responded:

25 “Section 9E.13 contains the relevant provisions for crosswalk markings for shared-use path
26 crossings as indicated in Paragraph 13 of Section 3C.02.

27 Per Standard Paragraph 5 of Section 9E.13 that you have noted, crosswalk markings shall be
28 used wherever a shared-use path crosses a roadway.”

29 Marking the crosswalk may not improve safety at uncontrolled locations without considering several
30 criteria in an engineering study, as recommended in Section 3C.02 Paragraph 04. For example, Section
31 3C.02 Paragraph 06 recommends installing treatments in addition to crosswalk markings to improve
32 safety where certain criteria are met because crosswalk markings alone in those cases may not improve
33 safety for people crossing.

34 These enhancements could be as simple as high-visibility markings and warning signs, like in Figure 2.
35 They could also be much more involved, like the crossing in Figure 3. That crossing is in a remote
36 location crossing a rural highway with a posted speed of 55 mph. Under 3C.02 Paragraph 06, other
37 devices designed to reduce speed, shorten crossing distance, enhance driver awareness of the crossing,
38 and/or provide active warning of pedestrian presence should be considered in addition to crosswalk
39 markings and signs. Those added enhancements could include a pedestrian hybrid beacon, lighting,
40 and advance warning beacons.

41 If a road authority does not have funding to add or maintain those enhancements, the road authority
42 might mark the crossing to satisfy the MUTCD standard without installing further enhancements or
43 under-treat the crossing. This may degrade safety for path users and road users.

44 The decision on whether to mark a crosswalk at an uncontrolled location directly affects safety for path
45 users and road users. This decision should be handled through an engineering study of the location,
46 not a blanket MUTCD standard. This proposes to only require crosswalk markings where the crossing
47 is controlled by a traffic signal and add a support paragraph pointing practitioners to Part 3 for safety
48 considerations at uncontrolled locations.

49 **Figure 2: Shared-use Path Crossing at Mid-block Location – Suburban Street Crossing**



50

51 **Figure 3: Shared-use Path Crossing at Mid-Block Location – Rural Highway Crossing**



52

53 Proposed Supplement Content

54 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
55 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

56 CHAPTER 9E. MARKINGS

57 Section 9E.13 Shared-Use Paths

58 Option:

59 01 Where shared-use paths are of sufficient width to designate two minimum width lanes, a solid yellow
60 center line may be used to separate the two directions of travel where passing or traveling to the left of the
61 line is not permitted. A broken yellow center line may be used where passing is permitted (see Figure 9E-
62 13).

63 *Guidance:*

64 02 *Broken lines used on shared-use paths should have a nominal 3-foot segment with a 9-foot gap.*

65 Option:

66 03 A solid white line may be used on shared-use paths to separate different types of users in the same
67 direction. The R9-7 sign (see Section 9B.13) may be used to supplement the solid white line.

68 04 Smaller size pavement word markings and symbols may be used on shared-use paths. Where arrows are
69 needed on shared-use paths, half-size layouts of the arrows may be used (see Section 3B.20).

70 **Standard:**

71 05 **Where a shared-use path crosses a roadway at a location controlled by traffic control signals,**
72 **crosswalk markings shall be used (see Chapter 3C).**

73 Support:

74 05a Installing crosswalk markings alone does not necessarily result in positive safety outcomes. Chapter 3C
75 has information about crosswalk markings and consideration of other measures to improve safety at
76 uncontrolled marked crosswalks. Section 9B.01 has information about assigning priority where shared-use
77 paths cross roadways.

78 Option:

79 06 Where pedestrian and bicycle movements on a shared-use path are separated on the approach to a
80 roadway crossing, parallel bicycle and pedestrian crossing markings may be used as shown in Figure 9E-14.

81 *Guidance:*

82 07 *If parallel bicycle and pedestrian crossing markings are used where a shared-use path crosses a*
83 *roadway, crossing areas for bicycles should use green-colored pavement if the shared-use path crossing has*
84 *a high volume of either mode.*



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 9E.15 - Bicycle Detector Symbol	Last Revised January 03, 2025	Proposal No. 11911
Supplement Team 9-Bicycles	Status OTCDC Review – Round 2	Type New
Summary (2-3 sentences) Road users have a poor understanding of the optional bicycle detector marking in the 2009 MUTCD. The 11th Edition added text to improve understanding, but it makes the marking much larger than it needs to be for the intended user. A smaller alternate marking has been empirically tested, shown to improve user understanding and placement, and was recommended by the NCUTCD for the 11th Edition. This proposes to add an alternate bicycle detector symbol to Figure 9E-16 for optional use.		
<p>This is a proposal for content in the Oregon Supplement to the MUTCD 11th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.</p> <p>The Oregon Supplement to the MUTCD must be in substantial conformance with the national MUTCD (23 CFR 655.603(b)(1)). The FHWA Oregon Division Administrator decides whether the Oregon Supplement is in substantial conformance with the national MUTCD. This means the Oregon Supplement:</p> <ul style="list-style-type: none">• Must conform to the Standard statements in the national MUTCD. FHWA may grant an exception because of requirements of a specific State law, provided information available and documentation provided by the state shows the non-conformance does not create a safety concern.• Must conform to Guidance statements in the national MUTCD. FHWA may grant an exception if the proposal satisfactorily explains the reason for not conforming based on engineering judgement, specific conflicting State law, or a documented engineering study.• Cannot have Standard, Guidance, or Option statements that contravene or negate Standard or Guidance statements in the national MUTCD. This means the Oregon Supplement cannot change a national MUTCD “shall” to a “should” or a “should” to a “may.”• Can be more prescriptive than the national MUTCD. This means the Oregon Supplement can make a national MUTCD “should” condition a “shall” condition in Oregon, can allow only one of several national MUTCD optional designs for a particular device, or can prohibit the use of a particular optional device in Oregon.		

1 Problem

2 One of the key links in a bicycle network is signalized crossings. Signal equipment at these
3 intersections detect cyclists by a variety of methods, such as induction loops, video, and radar.
4 Research done in Oregon has shown that cyclists are unfamiliar with where to place their bicycle to be
5 detected on an approach with the MUTCD’s bicycle detector symbol and supplemental sign, and that
6 the text “WAIT HERE FOR GREEN” can be effective without being 24 inches tall. Scaling text the same
7 size as some messages for drivers can confusing road users on which message is intended for them.

8 Discussion

9 At traffic signals using detection, the position of a bicycle can determine whether the bicycle is detected
10 or not. A person operating a bicycle may be unnecessarily delayed if not detected, which may lead
11 them to take unnecessary risks like run the red light or make unexpected maneuvers to navigate
12 through the intersection.

13 **MUTCD Bicycle Detector Marking**

14 To show the optimum position for a bicycle to be detected, Section 9E.15 allows the optional use of a
15 bicycle detector marking and an optional supplemental R10-22 sign that explains how to use the
16 marking.

17 However, road users have a poor understanding of the marking. Field observations in Portland during
18 a 2013 Portland State University research (1) project showed only 23.5% of cyclists waited on the bicycle
19 detector symbol, and that only improved to 34.8% when the marking was paired with the sign. When
20 surveyed, 45.4% of cyclists correctly named what the marking was meant for.

21 For the 11th Edition, FHWA decided to add an option to add 24-inch tall WAIT HERE FOR GREEN
22 word markings below the symbol to “help bicyclists know to stop on the bicycle detector symbol”
23 (MUTCD 11th Edition NPA Item 637, Figure 9E-16).

24 The 11th Edition option for added text might improve road user understanding as intended, as it
25 makes the marking much larger than it needs to be for the target user and still likely will not improve
26 understanding. For example, the size of the WAIT HERE FOR GREEN text (24 inches) is the same as the
27 WAIT HERE text used for drivers at some bike box at the advance stop line. This creates a scenario
28 where the traffic control devices do not convey a clear and simple meaning – there are multiple WAIT
29 HERE messages of identical size on the same approach to the intersection – confusing road users on
30 which message is intended for them. Figure 2 illustrates what this could look like at a 12-foot-deep
31 bicycle box.

32 The 11th Edition marking also will not fit in the minimum size bicycle box. Including the WAIT HERE
33 FOR GREEN text makes the marking 4 inches longer than the minimum 10-foot depth bicycle box
34 specified in Section 9E.12.

35 **Proposed Optional Bicycle Detector Marking**

36 To improve road user understanding, the City of Columbia, Missouri, through consultant Alta
37 Planning + Design, tested alternative markings through FHWA Request to Experiment “9(09)-66E
38 Bicycle Detector Pavement Marking Alternatives – Columbia, MO” (2). Results from the experiment
39 included:

- 40 1. Participants in the University of Missouri simulator test preferred the proposed alternative by
41 96% to 19% over the 2009 MUTCD symbol.
- 42 2. During field testing in Columbia, Missouri, 253 individuals responded to a survey after the
43 proposed markings were installed at four intersections. Only 12% of responders correctly
44 named the purpose of the 2009 MUTCD symbol, while 87% named the proposed symbol as
45 “bikes stop here for green light.”

46 3. Another study in Portland, Oregon confirmed the preference for the proposed symbol over the
47 2009 MUTCD symbol. Five symbol configurations, including the 2009 MUTCD symbol, were
48 evaluated via field testing and surveys. Participants ranked the symbols in preference for how
49 well the symbol communicated its purpose. The proposed symbol ranked first by a wide
50 margin. Portland also tested the 2009 MUTCD symbol with added text “WAIT ON LINES FOR
51 GREEN,” which improved comprehension.

52 The National Committee on Uniform Traffic Control Devices recommended FHWA include the
53 proposed alternate marking from the Columbia, Missouri experiment and a version of the 2009
54 MUTCD symbol with added text (3).

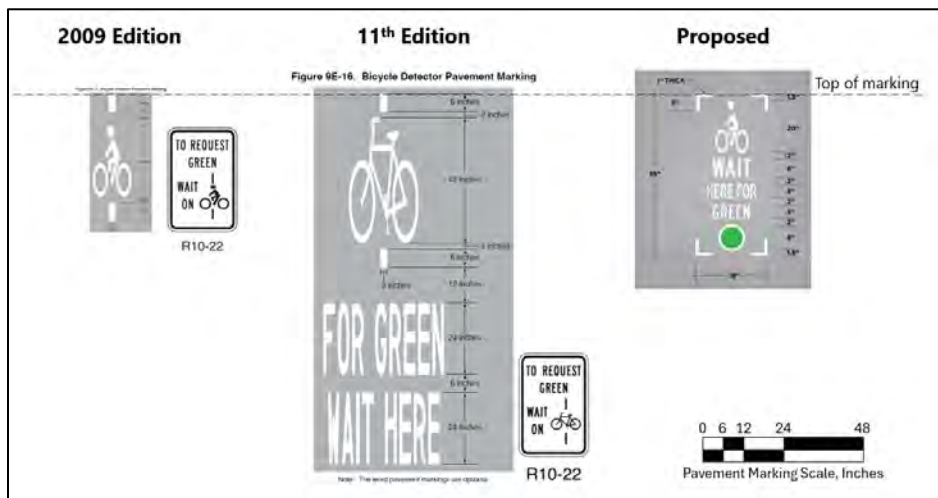
55 The studies cited above show the proposed marking improves bicyclist understanding, which can help
56 them position themselves for detection, reducing the likelihood of a detection failure and subsequent
57 risk-taking. The marking is scaled for the intended use and is less likely to be a distraction to drivers
58 than the large standard MUTCD marking. It also fits in a minimum-size intersection bicycle box.

59 **The proposed marking can be made as a preformed thermoplastic sheet with black or green**
60 **background (as discussed in 3A.03 and 3H.06), improving durability of the marking (Figure 2:**
61 **Illustration of 11th Edition Marking in 12-foot Deep Bike Box**



62
63 Figure 3 and Figure 4). Compared to the 2009 Edition marking, the added cost for materials of this
64 optional device is approximately \$100. The added time for installation is nominal.

65 **Figure 1: Bicycle Detector Marking Types**



66

67 **Table 1: Bicycle Detector Marking Dimensions**

Dimensions	2009 Edition	11 th Edition with text	Proposed
Length	43 inches (3.58 feet)*	124 inches (10.33 feet)	55 inches (4.58 feet)
Width	15 inches* (1.25 feet)	42 inches* (3.50 feet)	18 inches (1.50 feet)

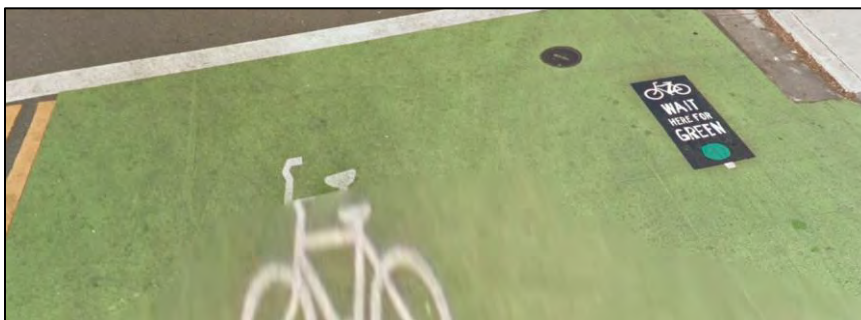
68 **Figure 2: Illustration of 11th Edition Marking in 12-foot Deep Bike Box**



69
70 **Figure 3: Proposed Detector Marking at Loop Detector**



71
72 **Figure 4: Proposed Detector Marking in Bicycle Box**



73

74 **Figure 5: Bicyclist Using Proposed Detector Marking in Bicycle Box**



75

76 **References**

- 77 1. Bussey, S. W. The Effect of the Bicycle Detector Symbol and R10-22 Sign on Cyclists Queuing
78 Position at Signalized Intersections. Portland State University, Portland, Oregon, 2013. DOI:
79 <https://doi.org/10.15760/honors.371>
- 80 2. Wojciechowski, P. Columbia, MO Bicycle Pavement Marking Detection Symbol RTE Findings.
81 Columbia, Missouri, 2017. [https://www.como.gov/wp-content/uploads/2020/10/Final-Report-](https://www.como.gov/wp-content/uploads/2020/10/Final-Report-FHWA-909-66E-Bicycle-Detection-Columbia-MO-RTE-09-20-2017-1.pdf)
82 [FHWA-909-66E-Bicycle-Detection-Columbia-MO-RTE-09-20-2017-1.pdf](https://www.como.gov/wp-content/uploads/2020/10/Final-Report-FHWA-909-66E-Bicycle-Detection-Columbia-MO-RTE-09-20-2017-1.pdf).
- 83 3. National Committee on Uniform Traffic Control Devices. *18-BIK-06 Bicycle Detector Symbol Marking*.
84 Sun City West, Arizona, 2018. [https://ncutcd.org/wp-content/uploads/meetings/2019A/](https://ncutcd.org/wp-content/uploads/meetings/2019A/AttachNo17.18B-BIK-06.BikeDetectorMarking.Approved.pdf)
85 [AttachNo17.18B-BIK-06.BikeDetectorMarking.Approved.pdf](https://ncutcd.org/wp-content/uploads/meetings/2019A/AttachNo17.18B-BIK-06.BikeDetectorMarking.Approved.pdf).

86 Proposed Supplement Content

87 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
88 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

89 CHAPTER 9E. MARKINGS

90 Section 9E.15 Bicycle Detector Symbol

91 Option:

92 01 The bicycle detector symbol (see Figure 9E-16(OR)) may be placed on the pavement indicating the
93 optimum position for a bicycle to actuate the signal.

94 02 Appropriately-sized WAIT HERE FOR GREEN word markings may be placed on the pavement
95 immediately below the bicycle detector symbol.

96 03 A R10-22 sign (see Section 9B.20) may be installed to supplement the bicycle detector symbol
97 pavement marking.

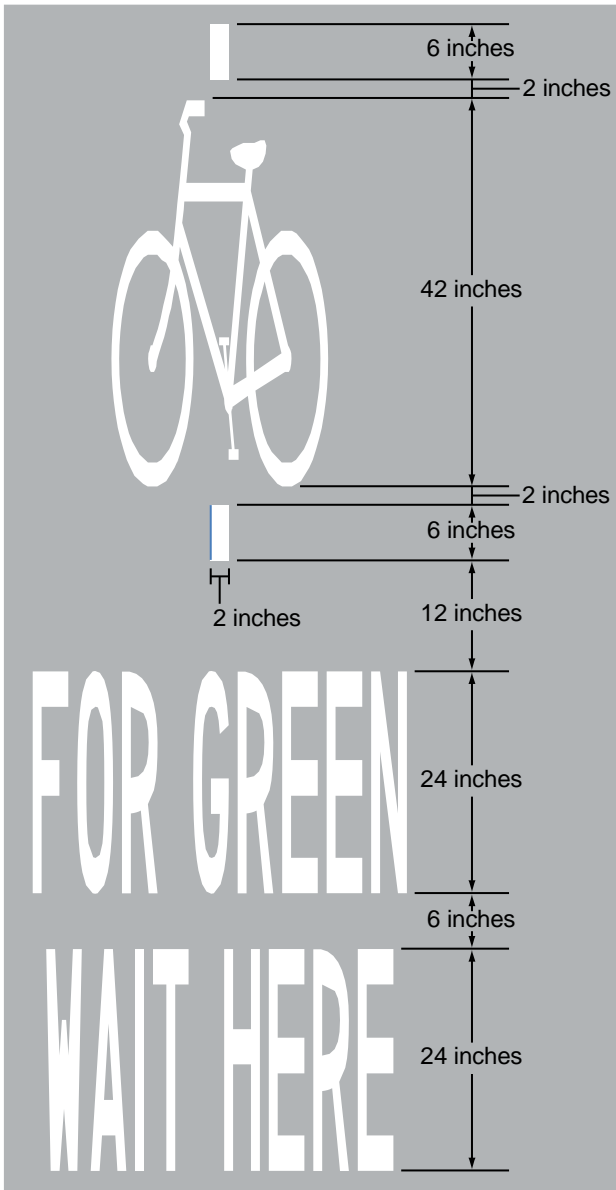
98 Support:

99 04 The “Standard Highway Signs” publication (see Section 1A.05) contains details on the bicycle detector
100 symbol.

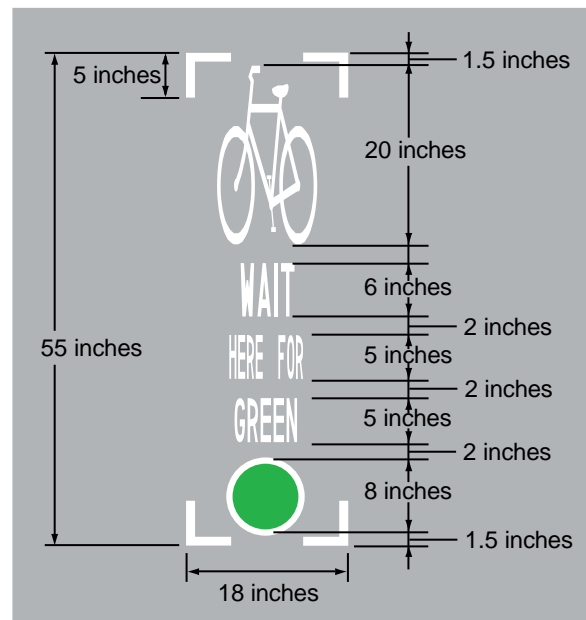
101 05 Section 3H.06 contains information on incorporating green-colored pavement as a background
102 enhancement to the bicycle detector symbol.

103

Figure 9E-16(OR). Bicycle Detector Pavement Markings



(A)



(B)

104

105



OREGON TRAFFIC CONTROL DEVICES COMMITTEE OREGON SUPPLEMENT TO THE MUTCD 11th EDITION SUPPLEMENT PROPOSAL

MUTCD 11th Ed. Section(s) Affected 9E.17 – Raised Devices	Last Revised January 03, 2025	Proposal No. 11912
Supplement Team 9-Bicycles	Status FHWA Review – Round 1	Type New
Summary (2-3 sentences) FHWA reported a known error in 9E.17 Paragraph 08 that changes the type of bicycle facility described in that guidance paragraph. FHWA will not be able to change this until a future edition of the MUTCD. This proposes to correct the known error in the Supplement to ensure proper application of the guidance.		
This is a proposal for content in the Oregon Supplement to the MUTCD 11 th Edition. This proposal is not official Oregon Supplement content. ODOT might edit final proposed language to fit with the scope and style of the Oregon Supplement to the MUTCD. The Oregon Transportation Commission adopts the Oregon Supplement through an update to Oregon Administrative Rule 734-020-0005.		
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1 Problem

2 FHWA reported a known error in 9E.17 Paragraph 08 that changes the type of bicycle facility described
3 in that guidance paragraph. FHWA will not be able to change this until a future edition of the MUTCD.

4 Discussion

5 9E.17 Paragraph 08 gives guidance about using raised channelizing devices in buffer-separated bicycle
6 lanes. FHWA reported this as a known error, saying it should be changed to separated bicycle lanes.
7 This is likely because buffer-separated bicycle lanes use markings, not vertical elements, to separate the
8 bike lane from motor vehicle traffic. Channelizing devices are vertical elements, so using channelizing
9 devices in the buffer would create a separated bicycle lane.

10 The Supplement should correct this error because it changes the type of bicycle facility described in the
11 paragraph and may lead to misapplication of the guidance in practice. Currently, the Supplement does
12 not need to correct other known errors in Part 9 because the other known errors are not significant
13 enough to result in misapplication of the MUTCD content.

14 Proposed Supplement Content

15 This marks material proposed for removal in the Supplement with ~~red strikethrough~~ and addition with
16 blue underline. This shows the entire section where the change is proposed unless noted otherwise.

17 CHAPTER 9E. MARKINGS

18 Section 9E.17 Raised Devices

19 Support:

20 01 Chapter 3I contains information on using channelizing devices to emphasize pavement marking
21 patterns associated with certain bicycle facilities. A common application is the use of flexible raised devices
22 to create separated bicycle lanes (see Section 9E.07).

23 02 Using inflexible raised devices immediately adjacent to the travel path of a bicyclist without a buffer
24 creates a collision potential for bicyclists.

25 Option:

26 03 In accordance with Chapter 3I, channelizing devices may be used to emphasize a pavement marking
27 pattern that establishes a bicycle lane or other bicycle facility provided that the installation of channelizing
28 devices does not prevent motor vehicles from turning when the turn requires the motor vehicle to merge
29 with the bicycle lane or facility as required by law or ordinance.

30 Guidance:

31 04 *If used, channelizing devices for bicycle facilities should be tubular markers (see Section 3I.02).*

32 05 *The selection of a raised device for use with bicycle facilities should consider the collision potential of*
33 *both the post and the base since the base might still be present in the event the post is struck and missing.*

34 Support:

35 06 Measures to reduce the likelihood of a road user striking a channelizing device include marking a buffer
36 space, improving lighting, improving retroreflectivity, or the periodic addition of taller vertical elements
37 within runs of shorter elements.

38 Standard:

39 07 **Channelizing devices that are used to emphasize the pavement marking patterns of bicycle**
40 **facilities shall not incorporate the color green into either the device or its retroreflective element to**
41 **supplement the presence of green-colored pavement.**

42 Guidance:

43 08 *If used in ~~buffer~~ separated bicycle lanes, channelizing devices should be placed in the buffer space and*
44 *at least 1 foot from the longitudinal bicycle lane pavement marking.*