# PART 9 TRAFFIC CONTROL FOR BICYCLE FACILITIES

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Section 9B.01 Application and Placement of Signs

Standard:
01 Bicycle signs shall be standard in shape, legend, and color.
02 All signs shall be retroreflectorized for use on bikeways, including shared-use paths and bicycle lane facilities.
03 Where signs serve both bicyclists and other road users, vertical mounting height and lateral placement shall be as provided in Part 2.
04 Where used on a shared-use path, no portion of a sign or its support shall be placed less than 3 feet laterally from the near edge of the path, or less than 8 feet vertically over the entire width of the shared-use path (see Figure 9B-1(VA) in this Supplement).

Guidance:
05 Where used on a shared-use path where equestrian traffic is expected, no portion of a sign or its support should be placed less than 10 feet vertically over the entire width of the shared use path (see Figure 9B-1(VA) in this Supplement).

Figure 9B-1(VA). Sign Placement on Shared-Use Paths
Standard:
06 Mounting height for post-mounted signs on shared-use paths shall be a minimum of 4 feet, measured vertically from the bottom of the sign to the elevation of the near edge of the path surface (see Figure 9B-1(VA) in this Supplement).

Guidance:
07 Signs for the exclusive use of bicyclists should be located so that other road users are not confused by them.
08 The clearance for overhead signs on shared-use paths should be adjusted when appropriate to accommodate path users requiring more clearance, such as equestrians, or typical maintenance or emergency vehicles.

Section 9B.03 STOP and YIELD Signs (R1-1, R1-2)

Standard:
01 STOP (R1-1) signs (see Figure 9B-2) shall be installed on shared-use paths at points where bicyclists are required to stop.
02 YIELD (R1-2) signs (see Figure 9B-2) shall be installed on shared-use paths 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.

Support:
03 The Code of Virginia, § 46.2-904 states that a person riding a bicycle on a shared use path shall have the same rights and duties as pedestrians. This should be taken into consideration when determining points at which bicycles are required to stop or yield.

Option:
04 A 30 x 30-inch STOP sign or a 36 x 36 x 36-inch YIELD sign may be used on shared-use paths for added emphasis.

Guidance:
05 Where conditions require path users, 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 road users.
06 When placement of STOP or YIELD signs is considered, 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 crossing a low-volume street, or to a regional shared-use path crossing a minor collector street.
Figure 9B-2. Regulatory Signs and Plaques for Bicycle Facilities

- **STOP** (R1-1)
- **YIELD** (R1-2)
- **BIKE LANE** (R3-17)
- **AHEAD** (R3-17aP)
- **DO NOT PASS** (R4-1)
- **PASS WITH CARE** (R4-2)
- **BEGIN RIGHT TURN LANE YIELD TO BIKES** (R4-3)
- **SLOWER TRAFFIC KEEP RIGHT** (R4-4)
- **MAY USE FULL LANE** (R4-7)
- **KEEP RIGHT EXCEPT TO PASS** (R4-11)
- **NO MOTOR VEHICLES** (R5-1b)
- **RIDING WITH TRAFFIC** (R9-3cP)
- **USE PED SIGNAL** (R9-5)
- **YIELD TO PEDS** (R9-6)
- **KEEP LEFT/RIGHT** (R9-7)
- **NO Parking BIKE LANE** (R5-6)
- **NO BIKE LANE** (R7-9)
- **TO REQUEST GREEN WAIT ON** (R10-4)
- **3 Tracks** (R15-1)
- **LOOK** (R15-8)
When priority is assigned, 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 be acceptable.

**Section 9B.06 Bicycles May Use Full Lane Sign (R4-11)**

**Option:**

01 The Bicycles May Use Full Lane sign may be used in locations where it is important to inform road users that bicyclists might occupy the center of the travel lane.

02 Section 9C.07 of this Supplement describes a Shared Lane Marking that may be used in addition to or instead of the Bicycles May Use Full Lane sign (when used in accordance with the Standard in Paragraph 3) to inform road users that bicyclists might occupy the travel lane.

**Standard:**

03 The Bicycles May Use Full Lane (R4-11) sign (see Figure 9B-2) shall only be used on roadways where no on-road bicycle facilities exist, such as bicycle lanes, wide curb lanes, or adjacent paved shoulders usable by bicycles, and where substandard width travel lanes are too narrow for bicyclists and motor vehicles to operate side by side.

**Support:**

04 The Code of Virginia, § 46.2-905, item 3, allows bicyclists not to ride as close as safely practicable to the right curb or edge of the roadway when “substandard width” lanes make is unsafe to continue along the right curb or edge.

05 The Uniform Vehicle Code (UVC) defines a "substandard width lane" as a "lane that is too narrow for a bicycle and a vehicle to travel safely side by side within the same lane."

**Guidance:**

06 The R4-11 sign should only be used on roadway segments where travel lanes are delineated with longitudinal pavement markings or other methods (the R4-11 sign should not be used on undivided unmarked roadways).

07 The R4-11 sign should not be placed on roadways that have a speed limit above 35 mph.

**Section 9B.18 Bicycle Warning and Combined Bicycle/Pedestrian Signs (W11-1 and W11-15)**

**Support:**

01 The Bicycle Warning (W11-1) sign (see Figure 9B-3(VA) in this Supplement) alerts the road user to unexpected entries into the roadway by bicyclists, and other crossing activities that might cause conflicts. These conflicts might be relatively confined, or might occur randomly over a segment of roadway. See Section 9B.19 of this Supplement for additional information on use of the Bicycle Warning (W11-1) sign along with the Share the Road (W16-1P) supplemental plaque.
Figure 9B-3(VA). Warning Signs and Plaques and Object Markers for Bicycle Facilities

- W1-1
- W1-2
- W1-3
- W1-4
- W1-5
- W1-6
- W1-7
- W2-1
- W2-2
- W2-3
- W2-4
- W2-5
- W3-1
- W3-2
- W3-3
- W5-2
- W5-4a
- W7-5
- W8-1
- W8-2
- W8-3
- W8-10
- W8-10P
- W10-1
- W10-2
- W10-4P
- W10-12
- W11-1
- W11-2
- W11-15
- W11-15P
- W12-2
- W15-1
- W16-1P
- W16-2P
- W16-2aP
- W16-7P
- W16-8P
- OM3-L
- OM3-C
- OM3-R

* A fluorescent yellow-green background color may be used for this sign or plaque.
** The background color of the plaque should match the color of the warning sign that it supplements.
Option:
02 The combined Bicycle/Pedestrian (W11-15) sign (see Figure 9B-3(VA) in this Supplement) may be used where both bicyclists and pedestrians might be crossing the roadway, such as at an intersection with a shared-use path. A TRAIL X-ING (W11-15P) supplemental plaque (see Figure 9B-3(VA) in this Supplement) may be mounted below the W11-15 sign.

03 A supplemental plaque with the legend AHEAD or XX FEET may be used with the Bicycle Warning or combined Bicycle/Pedestrian sign.

Guidance:
04 If used in advance of a specific crossing point, the Bicycle Warning or combined Bicycle/Pedestrian sign should be placed at a distance in advance of the crossing location that conforms with the guidance given in Table 2C-4.

Standard:
05 Bicycle Warning and combined Bicycle/Pedestrian signs, when used at the location of the crossing, shall be supplemented with a diagonal downward pointing arrow (W16-7P) plaque (see Figure 9B-3(VA) in this Supplement) to show the location of the crossing.

06 A fluorescent yellow-green background color with a black legend and border shall be used for Bicycle Warning and combined Bicycle/Pedestrian signs and supplemental plaques.

Guidance:
07 When the fluorescent yellow-green background color is used, a systematic approach featuring one background color within a zone or area should be used. The mixing of standard yellow and fluorescent yellow-green backgrounds within a zone or area should be avoided.

Section 9B.19 Other Bicycle Warning Signs

Option:
01 Other bicycle warning signs (see Figure 9B-3(VA) in this Supplement) such as PATH NARROWS (W5-4a) and Hill (W7-5) may be installed on shared-use paths to warn bicyclists of conditions not readily apparent.

02 In situations where there is a need to warn motorists to watch for bicyclists traveling along the highway, the SHARE THE ROAD (W16-1P) plaque (see Figure 9B-3(VA) in this Supplement) may be used in conjunction with the W11-1 sign.

03 The Bicycle Warning Sign (W11-1) and SHARE THE ROAD supplemental plaque (W16-1P) assembly may be considered at the following locations, if observation reflects routine bicycle use:
   - Where shared-use paths end at roadways.
   - Where shoulders or wide curb lanes drop prior to features such as narrow bridge or overpasses.
- Where there has been a significant history of bicycle crashes involving vehicles.
- Where roadway improvements needed to address bicycle safety issues are not practical due to physical or environmental constraints.

A Bicycle Warning sign (W11-1) and SHARE THE ROAD supplemental plaque (W16-1P) assembly may be considered where all of the following conditions exist:

- A bike lane ends,
- The speed limit is 40 MPH or greater, and
- A hazard exists, such as a narrow bridge or overpass, narrow lane, parallel parked vehicles, or a downstream intersection with many turning vehicles. (The end of a bike lane, by itself, is not a hazard.)

**Standard:**

A Bicycle Warning sign (W11-1) and SHARE THE ROAD supplemental plaque (W16-1P) assembly shall not be used as a substitute for a bike route sign or where a jurisdiction wants to communicate a general policy statement.

**Guidance:**

If used, other advance bicycle warning signs should be installed at least 50 feet in advance of the beginning of the condition.

Where temporary traffic control zones are present on bikeways, appropriate signs from Part 6 should be used.

**Option:**

Other warning signs described in Chapter 2C may be installed on bicycle facilities as appropriate.

**Guidance:**

A Bicycle Warning sign (W11-1) and SHARE THE ROAD supplemental plaque (W16-1P) assembly should not be used where a bike lane ends and the speed limit is 35 MPH or less. Such circumstances could include a college or university campus, a central business district, or other area characterized by low speeds and a large amount of interaction between bicycles and motorized vehicles.
CHAPTER 9C. MARKINGS

Section 9C.04 Markings for Bicycle Lanes

Support:
01 Pavement markings designate that portion of the roadway for preferential use by bicyclists. Markings inform all road users of the restricted nature of the bicycle lane. Typical pavement marking details are shown in Figure 9C-V1 in this Supplement.

Standard:
02 Longitudinal pavement markings shall be used to define bicycle lanes.

Guidance:
03 If used, bicycle lane word, symbol, and/or arrow markings (see Figure 9C-3(VA) in this Supplement) should be placed at the beginning of a bicycle lane and at periodic intervals along the bicycle lane based on engineering judgment.

Standard:
04 Except as provided in Paragraph 5, if bicycle lane markings are used, the helmeted bicyclist symbol marking (see Figures 9C-3(VA) and 9C-V1 in this Supplement) shall be used.

Option:
05 The bike symbol or bike word message may be used to supplement the helmeted bicyclist symbol marking on a limited basis if engineering judgment determines a need for it. Such circumstances include new installations of bike lanes in an area of Virginia where drivers may be less familiar with the meaning of the helmeted bicyclist symbol.

Standard:
06 If the bicycle lane symbol marking is used in conjunction with word or arrow messages, it shall precede them.

Option:
07 If the word, symbol, and/or arrow pavement markings shown in Figure 9C-3(VA) in this Supplement are used, Bike Lane signs (see Section 9B.04 of the MUTCD) may also be used, but to avoid overuse of the signs not necessarily adjacent to every set of pavement markings.

Standard:
08 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.

Support:
09 A bicyclist continuing straight through an intersection from the right of a right-turn lane or from the left of a left-turn lane would be inconsistent with normal traffic behavior and would violate the expectations of right- or left-turning motorists.
Figure 9C-V1. VDOT Pavement Marking Standard (Typical Pavement Markings for Bicycle Lane)

- No edge line required on right edge of bicycle lane
- Place bicycle lane symbol 6 feet beyond beginning of lane line
- 6 inch white line
- 30 ft spacing
- 2 ft white skip line (6" wide)
- 10 ft white skip line (4" wide)
- 4 ft spacing
- 6 ft
- 50 ft MIN. (from upstream end of full-width turn bay to upstream end of solid line)
- Place bicycle lane symbol 6 feet beyond beginning of lane line
Figure 9C-3(VA). Word, Symbol, and Arrow Pavement Markings for Bicycle Lanes

Guidance:

10 When the right through lane is dropped to become a right turn only lane, the bicycle lane markings should stop at least 180 feet (see Figure 9C-V2 in this Supplement) before the beginning of the right-turn lane. Through bicycle lane markings should resume to the left of the right turn only lane.

Support:

11 An example of bicycle lane markings at locations where the right through lane is dropped to become a right turn only lane is shown in Figure 9C-V2 in this Supplement.
**Guidance:**

12 *An optional through-right turn lane next to a right turn only lane should not be used where there is a through bicycle lane. If a capacity analysis indicates the need for an optional through-right turn lane, the bicycle lane should be discontinued at the intersection approach.*

13 *Posts or raised pavement markers should not be used to separate bicycle lanes from adjacent travel lanes.*

**Support:**

14 Using raised devices creates a collision potential for bicyclists by placing fixed objects immediately adjacent to the travel path of the bicyclist. In addition, raised devices can prevent vehicles turning right from merging with the bicycle lane, which is the preferred method for making the right turn. Raised devices used to define a bicycle lane can also cause problems in cleaning and maintaining the bicycle lane.

**Standard:**

15 *Bicycle lanes shall not be provided on the circular roadway of a roundabout.*

**Guidance:**

16 *Bicycle lane markings should stop at least 100 feet before the crosswalk, or if no crosswalk is provided, at least 100 feet before the yield line, or if no yield line is provided, then at least 100 feet before the edge of the circulatory roadway.*

**Support:**

17 Examples of bicycle lane markings at right-turn lanes are shown in Figures 9C-1(VA), 9C-4(VA), and 9C-5(VA) in this Supplement. Examples of pavement markings for bicycle lanes on a two-way street are shown in Figure 9C-6(VA) in this Supplement. Pavement word message, symbol, and arrow markings for bicycle lanes are shown in Figure 9C-3(VA) in this Supplement.

**Standard:**

18 *Pavement markings consisting of arrow and bicycle lane symbols shall be placed at the beginning of the bicycle lane at right turn lanes. Markings shall also be placed at the end of the bicycle lane at right turn lanes if the solid white line separating the bicycle lane from the right turn lane is greater than 100 feet in length.*

19 *Bicycle lane symbols shall be placed a maximum of 500 feet apart.*

**Guidance:**

20 *The bicycle lane pavement line marking should be a minimum of:*

- 4 feet from the edge of pavement on curb and gutter roadways (where the face of the concrete gutter pan meets the edge of the pavement).
- 5 feet from the face of a curb on roadways without a gutter pan (where the face of the concrete curb meets the edge of pavement).
- 4 feet from the edge of the pavement on roadways without curb and gutter (where the edge of asphalt meets the shoulder or roadside).
Figure 9C-V2. Example of Bicycle Lane Markings at a Right Turn Lane Drop at an Intersection

- **TURN LANE ARROWS FOR LONG MANDATORY TURN MOVEMENT LANES:**
  1. Arrow located at beginning of wide white solid lane line
  2. Arrow located at midpoint of wide white solid lane line
  3. Arrow located 50 ft behind downstream edge of stop line

- **Solid white lane line, 100 ft MIN.**
- **6 inch solid white lines**
- **3 ft white skip lines (6" wide)**
- **2 ft white skip lines (6" wide)**

*The Helmeted Bicyclist Symbol shall be used

* Minimums are recommended distances where spacing allows or is feasible
Figure 9C-1(VA). Example of Intersection Pavement Markings—Designated Bicycle Lane with Left-Turn Area, Heavy Turn Volume, Parking, One-Way Traffic, or Divided Highway
Figure 9C-4(VA). Example of a Bicycle Lane Treatment at a Right-Turn Only Lane
Figure 9C-5(VA). Example of Bicycle Lane Treatment at Parking Lane into a Right-Turn Only Lane
Figure 9C-6(VA). Example of Pavement Markings for Bicycle Lanes on a Two-Way Street
Option:

21 On asphalt roadways where the bicycle lane is beside curb and gutter and the asphalt portion of the bicycle lane is of insufficient width to allow placement of the bicycle symbol entirely on the asphalt, the symbol may be reduced and sized to fit entirely on the asphalt.

Standard:

22 If the bicycle symbol is reduced, it shall be reduced to no less than 4 feet in length.

Support:

23 Typical bicycle lane pavement marking details are shown in Figure 9C-V1 in this Supplement.

Section 9C.07 Shared Lane Marking

Option:

01 When determined to be an appropriate use, the Shared Lane Marking shown in Figure 9C-9 may be used to address defined safety issues. Specifically, they may be used as follows:

Figure 9C-9. Shared Lane Marking

A. To assist bicyclists with lateral positioning in a shared lane with on-street parallel parking in order to reduce the chance of a bicyclist's impacting the open door of a parked vehicle,
B. To assist bicyclists with lateral positioning in lanes that are too narrow for a motor vehicle and a bicycle to travel side by side within the same traffic lane,
C. To alert road users of the lateral location bicyclists are likely to occupy within the traveled way,
D. To encourage safe passing of bicyclists by motorists,
E. To reduce the incidence of wrong-way bicycling, where it is routinely observed,
F. To indicate more appropriate positioning away from the curb or the edge of the
tavel way on wide outside lanes,
G. At multi-lane intersections where there is insufficient width to provide a bicycle
lane, and conflicts make it desirable to indicate proper positioning,
H. On steep downgrades where bicycle speeds are high and parking is present, since
bicyclists may choose not to use a bike lane when traveling at high speeds adjacent
to parked vehicles,
I. Where a bike lane ends and the roadway continues with a posted speed of 35 mph
or less, or
J. In short segments between intermittent segments of bike lanes.

Guidance:
02 The Shared Lane Marking should not be placed on roadways that have a speed limit
above 35 mph.

Standard:
03 Shared Lane Markings shall not be used:
  A. On shoulders or in designated bicycle lanes,
  B. To provide wayfinding guidance to bicyclists,
  C. On a shared-use path or other facility where motor vehicle traffic is prohibited,
  D. As a substitute for bicycle lanes where roadway geometric conditions permit
     bicycle lanes to be marked, or
  E. In an exclusive turn lane.

Option:
04 Shared Lane Markings approaching an intersection may be used in the right most
through-lane next to an exclusive right turn lane to accommodate daily bicycle through
movements when there is a designated on-road bicycle lane on the receiving/far side of
the intersection to receive the bicycles from the right most through lane.

Guidance:
05 In order to prevent overuse of the Shared Lane Markings, judgment should be applied
that takes into account daily bicycle volumes, daily vehicle volumes, and bicycle-vehicle
conflicts; or a documented safety issue.

06 If used in a shared lane with on-street parallel parking, Shared Lane Markings should be
placed so that the centers of the markings are at least 11 feet from the face of the curb,
or from the edge of the pavement where there is no curb. The parking lane width should
be considered and the Shared Lane Marking adjusted accordingly.

07 If used on a street without on-street parking that has an outside travel lane that is less
than 14 feet wide, the centers of the Shared Lane Markings should be at least 4 feet
from the face of the curb, or from the edge of the pavement where there is no curb.

08 If used, the Shared Lane Marking should be placed immediately after an intersection and
spaced at intervals not greater than 250 feet thereafter.
The Shared Lane Marking should only be used on roadway segments where travel lanes are delineated with longitudinal pavement markings or other methods (the Shared Lane Marking should not be used on undivided unmarked roadways).

Option:
Section 9B.06 in this Supplement describes a Bicycles May Use Full Lane sign that may be used in addition to or instead of the Shared Lane Marking to inform road users that bicyclists might occupy the travel lane.