

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, D3-1 and D3-1a)

Support:

00 Refer to FHWA's List of Known Errors for error in Section title. Refer to Section 1A.04 for more details.

01 The purpose of Bicycle Destination (D1-1b, D1-1c, D1-2b, D1-2c, D1-3b, and D1-3c) signs (see Figure 9D-1) 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) 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.

07 Distance (D2-1 through D2-3) signs (see Section 2D.43) may be installed instead of, or in addition to, Bicycle Distance (D2-1a through D2-3a) signs, as needed, if the destination and distance information applies to motorists and bicyclists.

Guidance:

07a *Street Name (D3-1 or D3-1a signs should be installed at intersections of Class I bikeways with other bikeways and with streets.*

Option:

07b *Street Name (D3-1 or D3-1a signs may be installed at all street and shared-use path intersections.*

Guidance:

08 *Adequate separation should be made between any destination or group of destinations in one direction and those in other directions by suitable design of the arrow, spacing of lines of legend, heavy lines entirely across the sign, or separate signs.*

09 *Where a Bicycle Destination sign with distance information is located less than ½ mile from the destination, the distance displayed should be to the nearest ¼ mile. Where the distance to be displayed on a Bicycle Destination sign is less than ¼ mile, the distance should be displayed in feet, rather than miles, to the nearest 50 feet.*

Standard:

09a **For Memorial Bikeway signs, one sign shall be placed at each terminal. Signs shall be white on green. When used, Memorial Bikeway (G12-3(CA)) sign (see Figure 9D-1(CA)) shall be placed at the beginning of the bikeway segment**

memorialized by the Legislature.

Option:

- 10 Distances may be displayed in fractions of a mile to the nearest $\frac{1}{10}$ mile to communicate distance information on Bicycle Destination signs where the distance to a destination is desired to be more precise than $\frac{1}{4}$ -mile increments.

Support:

- 11 Section 2A.08 contains provisions on the display of fractions on guide signs.

Standard:

- 12 **An arrow pointing to the right, if used, shall be at the extreme right-hand side of the sign. An arrow pointing left or up, if used, shall be at the extreme left-hand side of the sign. The distance numerals, if used, shall be placed to the right of the destination names.**

- 13 **Except as provided in Paragraph 14 of this Section, a bicycle symbol shall be placed next to each destination or group of destinations.**

Option:

- 14 An oversized bicycle symbol may be displayed as the top line of a Bicycle Destination sign instead of individual bicycle symbols for each of the destination/distance lines.

Standard:

- 15 **If an arrow is at the extreme left, the bicycle symbol shall be placed to the right of the respective arrow.**

Guidance:

- 16 *Where the arrow is at the extreme right, the bicycle symbol should be to the left of the destination legend.*

- 17 *Unless a sloping arrow will convey a clearer indication of the direction to be followed, the directional arrows should be either horizontal or vertical.*

- 18 *If several individual name signs are assembled into a group, all of the signs in the assembly should have the same horizontal width.*

- 19 *Travel times should not be used on Bicycle Destination signs.*

Support:

- 20 Travel times can vary greatly for bicyclists based on a variety of factors including individual speed, bicycle type, and type of facility.

Section 9D.02 Bike Route Guide Signs (D11-1 and D11-1c)

Support:

- 01 The Bike Route Guide (D11-1 or D11-1c) sign (see Figure 9D-1) is used where no unique designation of routes is desired. Sections 9D.04 through 9D.07 contain information for Bicycle Route signs where the bicycle route is designated by number, name, or both.

Option:

- 02 Bike Route Guide signs may be provided along designated unnumbered, unnamed bicycle routes to inform bicyclists of bicycle route direction changes and to confirm route direction and destination.

- 03 If used, Bike Route Guide signs may be repeated at regular intervals so that bicycles entering from side streets will have an opportunity to know that they are on a bicycle route. Similar guide signing may be used for shared roadways with intermediate signs placed for bicycle guidance.

- 04 The Alternative Bike Route Guide (D11-1c) sign may be used to display a word legend that provides information on route direction, destination, and/or route name in place of the "BIKE ROUTE" word legend on the D11-1 sign (see Figure 9D-1).

- 05 Other plaques such as BEGIN (M4-14P) and END (M4-6P) may be used with Bike Route Guide signs.

Guidance:

- 06 *Travel times should not be used on Bike Route Guide signs.*

Support:

- 07 Travel times can vary greatly for bicyclists based on a variety of factors including individual speed, bicycle type, and type of facility.

- 08 Figure 9D-2 shows examples of guide sign applications for bicycle travel.

Section 9D.03 **BIKE ROUTE Plaque (D11-1bP)**

Option:

- 01 The BIKE ROUTE (D11-1bP) plaque (see Figure 9D-1) may be installed to supplement:
 - A. The Alternative Bike Route Guide (D11-1c) sign (see Section 9D.02);
 - B. The Bicycle Directional (D11-11) sign (see Section 9D.11) for use on a shared-use path; or
 - C. A Street Name (D3-1) sign (see Section 2D.45).
- 02 When installed above or below a Street Name sign, the D11-1bP supplemental plaque may include a bicycle symbol to the left of the BIKE ROUTE legend.

Standard:

- 03 **The bicycle symbol shall not be used on a Street Name sign.**
- 04 **Where a BIKE ROUTE plaque is used in conjunction with a Street Name sign to identify a street that is part of an overall bicycle network, one of the following signs shall also be used systematically to establish the designated bicycle route on the street identified by the BIKE ROUTE plaque:**
 - A. **Bike Route Guide signs (see Section 9D.02),**
 - B. **Alternative Bike Route Guide (D11-1c) sign (see Section 9D.02),**
 - C. **State or Local Bicycle Route (M1-8 and M1-8a) signs (see Section 9D.05),**
 - D. **Non-Numbered Bicycle Route (M1-8b and M1-8c) signs (see Section 9D.06), or**
 - E. **United States Bicycle Route (M1-9) sign (see Section 9D.07).**

- 05 **BIKE ROUTE plaques shall not incorporate replicas of the United States Bicycle Route, State or Local Bicycle Route, or Non-Numbered Bicycle Route sign to replace or supplement the bicycle symbol.**

Option:

- 06 The BIKE ROUTE plaque and the Street Name sign may be different widths.

Support:

- 07 Figure 9D-3 shows an example of bicycle guide signing using the BIKE ROUTE plaque.

Section 9D.04 **Numbered Bikeway Systems**

Support:

- 01 The purpose of numbering and signing bikeways and bicycle routes is to identify routes and facilitate travel.
- 02 The United States Bicycle Routes are numbered by the American Association of State Highway Transportation Officials (AASHTO) upon recommendations of State highway organizations. County and local bikeways and bicycle routes are numbered by the appropriate authorities.

02a Refer to FHWA's List of Known Errors for error in Paragraph 2 text. Refer to Section 1A.04 for more details.

- 03 Bicycle route sign systems can be used to distinguish junctions, turns, the beginning of routes, and route termination points. Extensive use of reassurance markers is typically not needed.
- 04 An agency or jurisdiction can use several methods for bicycle route guidance including maps, information guides, or signing.

Guidance:

- 05 *Establishing bicycle route systems described in Paragraph 2 of this Section and any other bicycle route system should be followed with effective communication between affected jurisdictions. County and local jurisdictions that are establishing numbered routes should coordinate with the respective State transportation agency. Care should be taken to avoid the use of numbers or other designations that have been assigned to U.S. Bicycle Routes or other routes in the same geographical region or State. Overlapping numbered routes should be kept to a minimum.*

- 06 *Bicycle routes, which might be a combination of various types of bikeways, should establish a continuous routing.*

Standard:

- 07 **Multiple numbered bicycle route systems shall be given preference in this order: United States, State, and county or local. The preference shall be given by installing the highest-priority legend on the top or the left of the sign assembly with other numbered overlapping bicycle routes.**

- 08 **Where applicable, multiple bicycle route systems with concurrency shall be signed in accordance with Figure 9D-4.**

Guidance:

- 09 *Numbered bicycle routes should be identified by route signs (see Sections 9D.05 through 9D.07) and auxiliary plaques (see Section 9D.08).*

10 *If used, Bicycle Route signs should be placed at locations to keep bicyclists informed of changes in route direction.*

Option:

11 Bicycle Route signs may be installed on shared roadways, shared-use paths, or separated bikeways, or bike lane facilities to provide navigational guidance for bicyclists.

Section 9D.05 Numbered Bicycle Route Signs (M1-8 and M1-8a)

Option:

01 To establish a unique identification (route designation) for a State or local bicycle route, the Bicycle Route (M1-8 or M1-8a) sign (see Figure 9D-1) may be used.

Support:

01a Refer to FHWA's List of Known Errors for error in Paragraph 1 text. Refer to Section 1A.04 for more details.

01b The Numbered Bicycle Route (M1-8a) sign may be used on public highways/bikeways where a numerical designation for bike routes is desired. The local agency that requests the M1-8a sign on State highways is responsible for furnishing, installing and maintaining the signs.

Guidance:

01c For numbered bike routes initiated by the State, the Bike Route (D11-1) sign should be used on State highways. The District Traffic Engineer is responsible for approving the use of M1-8a signs on State highways.

Standard:

02 The Numbered Bicycle Route (M1-8) sign shall display a route designation and shall have a green background with a white legend and border.

03 The Numbered Bicycle Route (M1-8a) sign shall display the same information as the M1-8 sign and in addition shall display a pictograph or words on the upper portion of the sign panel that are associated with the route or with the agency that has jurisdiction over the route.

04 If a Numbered Bicycle Route (M1-8 or M1-8a) sign is used on a roadway, it shall include a bicycle symbol.

Guidance:

05 If a pictograph is used on the M1-8a sign the maximum dimension (height or width) of the pictograph should not exceed 2 times the height of the route numeral, and should be contained within a green border. The minimum width of the graphic on the M1-8a sign should be $\frac{2}{3}$ of the sign width, and the maximum width should be $\frac{9}{10}$ of the sign width.

06 If a bicycle symbol is used on the M1-8a sign, it should have a minimum height of $\frac{1}{4}$ of the M1-8a sign panel height.

Section 9D.06 Non-Numbered Bicycle Route Signs (M1-8b and M1-8c)

Standard:

01 Except as provided in Paragraph 2 of this Section, Non-Numbered Bicycle Route (M1-8b and M1-8c) signs (see Figure 9D-1) used on roadways shall have a green background with a white border and shall include words identifying the bicycle route or a legend consisting of words identifying the bicycle route and a pictograph or bicycle symbol.

Option:

02 Words identifying the bicycle route may be omitted on Non-Numbered Bicycle Route (M1-8b and M1-8c) signs where a pictograph includes the likeness of a bicycle that clearly identifies the route as a bicycle route.

Support:

03 Bicycle routes are sometimes designated specifically by name or established using a distinctive route identity, but are not numbered or are intentionally excluded from an overall numbered bicycle route system.

04 Section 9D.02 contains information for Bicycle Route signs where no unique designation route is beneficial or desired.

Option:

05 Where a bicycle route is named instead of numbered, the Non-Numbered Bicycle Route sign may be used.

05a The Non-numbered Bicycle Route (M1-8b and M1-8c) signs may be installed above the Bike Route (D11-1) sign for those bicycle routes where a community or the responsible agency has given a designated name to selected routes.

06 A green background or white border may be omitted on Non-Numbered Bicycle Route (M1-8b or M1-8c) signs used on shared-use paths.

Support:

07 Certain uninterrupted, long-distance interstate bicycle routes can largely be on shared-use paths, or other off-roadway facilities. In order to achieve continuity, these bicycle systems might have to share alignments with urban streets, rural highways, or water crossings.

08 Long-distance interstate bicycle routes can be administered by independent organizations serving other non-transportation objectives.

Guidance:

09 *In order to provide signing on a facility managed by a transportation agency, a statewide policy for encouraging independent organizations to adopt the Non-Numbered Bicycle Route sign should be established.*

Section 9D.07 U.S. Bicycle Route Sign (M1-9)

Guidance:

01 *Where a designated bicycle route extends through two or more States, a coordinated submittal by the affected States for an assignment of a U.S. Bicycle Route number designation should be sent to the American Association of State Highway and Transportation Officials.*

Standard:

02 **The U.S. Bicycle Route (M1-9) sign (see Figure 9D-1) shall have a green legend and border with a white background and shall display the route designation as assigned by AASHTO.**

Section 9D.08 Bicycle Route Sign and Auxiliary Plaques

Support:

01 Section 2D.12 contains additional provisions for the design of route sign auxiliary plaques. Sections 2D.29 through 2D.34 contain additional provisions for the general application of route signs.

Guidance

02 *If a designated or numbered bicycle route is concurrent with a numbered highway, the route sign and auxiliary plaques for the bikeway should be installed as independent assemblies and should not be installed with other Route signs or confirmation assemblies for the numbered or named highway on the same assembly.*

Standard:

03 **Route signs for bikeways shall not be installed on guide signs or overhead.**

Option:

04 Route assemblies for a designated or numbered bicycle route may be installed at locations or distances other than those prescribed in Sections 2D.29 through 2D.34 if engineering judgment indicates that the operation or speed of the bicycle justifies alternate locations or distances.

05 Auxiliary plaques (see Figure 9D-1) may be used in conjunction with Bicycle Route signs as needed.

Guidance:

06 *If used, Junction (M2-1P), Cardinal Direction (M3 series), and Alternative Route (M4 series) auxiliary plaques should be mounted above the appropriate Bicycle Route signs.*

07 *If used, Advance Turn Arrow (M5 series) and Directional Arrow (M6 series) auxiliary plaques should be mounted below the appropriate Bicycle Route signs.*

08 *Except for the M4-8P plaque, all route sign auxiliary plaques should match the color combination of the route sign that they supplement.*

09 *Route sign auxiliary plaques carrying word legends that are used on bicycle routes should have a minimum size of 12 x 6 inches. Route sign auxiliary plaques carrying arrow symbols that are used on bicycle routes should have a minimum size of 12 x 9 inches.*

Standard:

10 **If both the Junction (M2-1P), Cardinal Direction (M3 series), or Alternative Route (M4 series) auxiliary plaque and the Advance Turn Arrow (M5 series) or Directional Arrow (M6 series) auxiliary plaques are used on the same sign assembly as a Bicycle Route sign, the Junction, Cardinal Direction, or Alternative Route auxiliary plaque shall be installed above the Bicycle Route sign, and the Advance Turn Arrow or Directional Arrow auxiliary plaque shall be installed below the Bicycle Route sign.**

Option:

11 With route signs of larger sizes, auxiliary plaques may be suitably enlarged, but not such that they exceed the width of the route sign.

12 A route sign and any auxiliary plaques used with it may be combined on a single sign as a guide sign.

Support:

12a Refer to FHWA's List of Known Errors for error between Paragraphs 12 and 13. Refer to Section 1A.04 for more details.

13 Figure 9D-3 shows typical placements of signs for bicycle routes.

Standard:

14 **If used, a Bicycle Route sign assembly shall consist of a route sign and auxiliary plaques that identify the route and indicate the direction.**

Guidance:

15 *If the bicycle route is signed, Bicycle Route sign assemblies should be installed on all approaches where that route intersects with other numbered bicycle routes.*

Standard:

16 **Within groups of assemblies, information for bicycle routes intersecting from the left shall be mounted at the left in horizontal arrangements and at the top or center of vertical arrangements. Similarly, information for bicycle routes intersecting from the right shall be at the right or bottom, and for straight-through bicycle routes at the center in horizontal arrangements or top in vertical arrangements.**

17 A Junction assembly shall consist of a Junction auxiliary plaque and a Bicycle Route sign. The Bicycle Route sign shall carry the number of the intersected or joined bicycle route.

Option:

18 The Junction assembly may be installed in advance of intersections where a numbered bicycle route is intersected or joined by another numbered bicycle route.

Standard:

19 **An Advance Bicycle Route Turn assembly shall consist of a Bicycle Route sign, an Advance Turn Arrow or word message auxiliary plaque, and a Cardinal Direction auxiliary plaque, if needed. If used, it shall be installed in advance of an intersection where a turn must be made to remain on the indicated route.**

Option:

20 The Advance Bicycle Route Turn assembly may be used in advance of intersecting routes. On the approach to an intersection with a numbered bicycle route, the Advance Bicycle Route Turn assembly may be used to pre-position turning bicyclists in the correct lane position from which to make their turn.

Standard:

21 **A Directional assembly shall consist of a Cardinal Direction auxiliary plaque, if needed, a route sign, and a Directional Arrow auxiliary plaque.**

Guidance:

22 *The various uses of Directional assemblies should be as follows:*

- A. *Turning movements should be marked by a Directional assembly with a route sign displaying the number of the turning route and a single-headed arrow pointing in the direction of the turn.*
- B. *The beginning of a route should be marked by a Directional assembly with a route sign displaying the number of that route and a single-headed arrow pointing in the direction of the route.*
- C. *An intersected route on a crossroad where the route is designated on both legs should be designated by:*
 1. *Two Directional assemblies, each with a route sign displaying the number of the intersected route, a Cardinal Direction auxiliary plaque, and a single-headed arrow pointing in the direction of movement on that route; or*
 2. *A Directional assembly with a route sign displaying the number of the intersected route and a double-headed arrow, pointing at appropriate angles to the left, right, or ahead.*
- D. *An intersected route on a side road or on a crossroad where the route is designated only on one of the legs should be designated by a Directional assembly with a route sign displaying the number of the intersected route, a Cardinal Direction auxiliary plaque, and a single-headed arrow pointing in the direction of movement on that route.*

Option:

23 Straight-through movements may be indicated by a Directional assembly with a route sign displaying the number of the continuing route and a M6-3P Directional Arrow – Through auxiliary plaque.

Guidance:

24 *A Directional assembly should not be used for a straight-through movement in the absence of other assemblies indicating right or left turns, as the Confirming assembly sign beyond the intersection normally provides adequate guidance.*

25 *Directional assemblies should be located on the near-right corner of the intersection. Where unusual conditions exist, the location of a Directional assembly should be determined by engineering judgment.*

Support:

26 It is more important that guide signs be readable, and that the information and direction displayed thereon be readily understood, at the appropriate time and place than to be located with absolute uniformity.

Guidance:

27 *If used, Confirming or Reassurance assemblies should consist of a Cardinal Direction auxiliary plaque and a route sign. Where the Confirming or Reassurance assembly is for an alternative route, the appropriate auxiliary plaque for an alternative route should also be included in the assembly.*

28 *If used, a Confirming assembly should be installed just beyond intersections of numbered routes.*

29 *If used, Reassurance assemblies should be installed between intersections in urban areas as needed, and beyond the built-up area of any incorporated city or town.*

30 *If used, Bicycle Route signs for either confirming or reassurance purposes should be spaced at such intervals as necessary to keep bicyclists informed of their routes.*

Section 9D.09 Bicycle Parking Area, Sharing Station, and Lockers Guide Signs (D4-3, D4-4, and D4-4a)

Support:

01 Bicycle parking areas include bicycle racks or stands, parking stations or structures, sharing systems, or lockers. These facilities can be either regulated or unregulated.

Option:

02 The Bicycle Parking Area (D4-3) guide sign (see Figure 9D-1) may be installed where it is desirable to show the direction to a designated bicycle parking area. The arrow may be reversed as appropriate.

02a *The Advance Turn Arrow or Directional Arrow auxiliary signs (see Section 2D.26 and 2D.28) may be used in combination with and below the D4-3 sign to show direction to a designated bicycle parking area.*

03 The Bicycle-Sharing Station (D4-4) guide sign (see Figure 9D-1) may be installed to provide directional information to a designated bicycle-sharing system. The arrow may be reversed as appropriate.

04 The Bicycle-Sharing Station guide sign may be modified with two lines to accommodate installation in constrained areas.

05 The Bicycle Lockers (D4-4a) guide sign (see Figure 9D-1) may be installed where it is desirable to show the direction to designated bicycle lockers. The arrow may be reversed as appropriate.

Guidance:

06 *If used, the Bicycle-Sharing Station guide sign should be used in conjunction with a regulated bicycle-sharing system such as one that requires the user to pre-register or provide a deposit in order to use a bicycle.*

07 *Where it is determined that unregulated bicycle-sharing parking facilities necessitate a bicycle parking sign, the Bicycle Parking Area guide sign should be used.*

Standard:

08 **In accordance with Section 1D.07, Bicycle Parking Area, Sharing Station, and Lockers guide signs shall not include promotional advertising, business logos, or other identification that would convey the involvement of a public-private partnership for operating the bicycle parking facility or sharing system.**

Section 9D.10 Reference Location Signs (D10-1 through D10-3) and Intermediate Reference Location Signs (D10-1a through D10-3a)

Support:

01 There are two types of reference location signs:

- A. Reference Location (D10-1, D10-2, and D10-3) signs (see Figure 9D-1) show an integer distance point along a shared-use path; and
- B. Intermediate Reference Location (D10-1a, D10-2a, and D10-3a) signs (see Figure 9D-1) show the same information as Reference Locations signs, but they also show a tenth-of-a-mile decimal so that they can be

installed between integer distance points along a shared-use path.

Option:

02 Reference Location (D10-1 through D10-3) signs may be installed along any section of a shared-use path to assist users in estimating their progress, to provide a means for identifying the location of emergency incidents and crashes, and to aid in maintenance and servicing.

03 To augment the reference location sign system, Intermediate Reference Location (D10-1a to D10-3a) signs, which show the tenth of a mile with a decimal point, may be installed at one-tenth-of-a-mile intervals, or at some other regular spacing.

Guidance:

04 *If Intermediate Reference Location (D10-1a through D10-3a) signs are used to augment the reference location sign system, the Reference Location sign at the integer mile point should display a decimal point and a zero numeral.*

05 *Reference location signs for shared-use paths path; should have a minimum mounting height of 2 feet, measured vertically from the bottom of the sign to the elevation of the near edge of the shared-use path, and should not be governed by the mounting height requirements prescribed in Section 9A.02.*

Option:

06 Reference location signs may be installed on one side of the shared-use path only and may be installed back-to-back.

07 If a reference location sign cannot be installed in the correct location, it may be moved in either direction as much as 50 feet.

Guidance:

08 *If a reference location sign cannot be placed within 50 feet of the correct location, it should be omitted.*

09 *Zero distance should begin at the south and west terminus points of shared-use paths path.*

Support:

10 Section 2H.11 contains additional information regarding reference location signs.

Section 9D.11 Mode-Specific Directional Guide Signs for Shared-Use Paths (D11-11, D11-12, D11-13, and D11-14)

Option:

01 Where separate pathways are provided for different types of users, mode-specific Directional Guide (D11-11, D11-12, D11-13, and D11-14) signs (see Figure 9D-1) may be used to guide different types of users to the pathway that is intended for their respective modes.

02 Mode-specific Directional Guide signs may be installed at the entrance to shared-use paths where the signed mode(s) are permitted or encouraged, and periodically along these facilities as needed.

03 The Bicycle Directional (D11-11) sign, when combined with the BIKE ROUTE (D11-1bP) supplemental plaque, may be substituted for the D11-1 Bike Route Guide sign on shared-use paths.

04 When some, but not all, non-motorized user types are encouraged or permitted on a shared-use path, mode-specific Directional Guide signs may be placed in combination with each other, and in combination with signs (see Section 9B.08) that prohibit travel by particular modes.

Support:

05 Figure 9D-5 shows an example of signing where separate pathways are provided for different non-motorized user types.

Section 9D.12 Destination Guide Signs for Shared-Use Paths (D11-10a, D11-10b, D11-10c, D11-10d, D11-10e, and D11-10f)

Support:

01 This Section contains information on the application of Destination Guide signs for shared-use paths.

Standard:

02 **Where bicycle traffic is allowed on the shared-use path, Destination Guide signs for shared-use paths and any identification markers shall be retroreflective.**

Guidance:

03 *Destination Guide signs for shared-use paths should be installed on independent assemblies and should not be combined with regulatory and warning signs.*

Option:

- 04 Destination Guide signs for shared-use paths may use symbols detailed in the "Standard Highway Signs" publication (see Section 1A.05) in addition to the bicycle symbol to display other modes permitted to use the shared-use path.

Standard:

- 05 **If used, symbols on Destination Guide signs for shared-use paths shall be limited to those where the symbol displayed is an allowable mode on the path or pathway alignment, and where the symbol is supported by other regulatory signs to convey the operation. Symbols unrelated to the allowable modes that would otherwise display directional navigation to a facility, activity, or point of interest shall not be used.**

Support:

- 06 Chapter 2M contains information for symbol signs used for facilities, activities, and points of interest.

Guidance:

- 07 *Destination Guide signs for shared-use paths, exclusive of any identification marker used, should be rectangular in shape. Simplicity and uniformity in design, position, and application as described in Section 2A.04 are important and should be incorporated into the sign design.*
- 08 *Destination Guide signs for shared-use paths should be limited to three destinations per sign (see Section 2D.06).*
- 09 *Abbreviations (see Section 1D.08) should be kept to a minimum, and should include only those that are commonly recognized and understood.*

Support:

- 10 Figure 9D-6 shows an example of a signing system of Destination Guide signs used on shared-use paths.

Standard:

- 11 **The arrow location and priority order of destinations shall follow the provisions described in Sections 2D.08 and 2D.36. Arrows shall be of the designs provided in Section 2D.08.**
- 12 **The lettering for destinations on Destination Guide signs for shared-use paths shall be a combination of lower-case letters with initial upper-case letters (see Section 2D.04). All other word messages on Destination Guide signs for shared-use paths shall be in all upper-case letters.**
- 13 **Except as provided in Paragraph 15 of this Section, the lettering style used for destination and directional legends on Destination Guide signs for shared-use paths shall comply with the provisions of Section 2D.04.**

Option:

- 14 The distance to the place named may be displayed on the Destination Guide sign. If several destinations are to be displayed at a single point, the several names 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 such a group of destinations.
- 15 A lettering style other than the Standard Alphabets provided in the "Standard Highway Signs" publication (see Section 1A.05) may be used on Destination Guide signs for shared-use paths if an engineering study determines that the legibility and recognition values for the chosen lettering style at minimum letter heights meet or exceed the values for the Standard Alphabets for the same legend height and stroke width.

Standard:

- 16 **Where a shared-use path is within the highway right-of-way or crosses a street or highway, an alternative lettering style shall not be used.**

Option:

- 17 Pictographs (see definition in Section 1C.02) may be used on Destination Guide signs for shared-use paths.

Standard:

- 18 **If a pictograph is used, its height shall not exceed 2 times the height of the upper-case letters of the principal legend on the sign.**
- 19 **Business logos, commercial graphics, or other forms of advertising (see Section 1D.07) shall not be used on Destination Guide signs for shared-use paths or sign assemblies.**

Option:

- 20 An identification marker may be used in an assembly for Destination Guide signs applied to shared-use paths, or may be incorporated into the overall design of Destination Guide sign, as a means of visually identifying the sign as part of an overall system of signs.

Standard:

- 21 **The size of an identification marker shall be smaller than the Destination Guide sign. Identification markers shall not be designed to have an appearance that could be mistaken by road users as being a traffic control device.**

Guidance:

- 22 *The area of the identification marker should not exceed 1/5 of the area of the Destination Guide sign with which it is mounted in the same sign assembly.*

Standard:

- 23 **Except as provided in Paragraph 26 of this Section, Destination Guide signs for shared-use paths shall have a white legend and border on a green or brown background and shall be consistent with the basic design principles for guide signs.**

- 24 **Color coding or pictographs shall not be used to distinguish between different types of destinations. If used, color coding shall be accomplished by the use of different colored square or rectangular panels on the face of the sign, each positioned to the left of the named geographic area to which the color-coding panel applies. The height of the colored square or rectangular panels shall not exceed 2 times the height of the upper-case letters of the principal legend on the sign.**

Option:

- 25 The different colored square or rectangular panels may include either a black or a white (whichever provides the better contrast with the color of the panel) letter, numeral, or other appropriate designation to identify the destination.
- 26 Except where a shared-use path is within the highway right-of-way or crosses a street or highway, Destination Guide signs for shared-use paths may use background colors other than green or brown in order to provide a color identification for systematic destinations within the overall guide signing system.

Standard:

- 27 **The standard colors of red, orange, yellow, purple, or the fluorescent versions thereof, fluorescent yellow-green, and fluorescent pink shall not be used as background colors for Destination Guide signs for shared-use paths, in order to minimize possible confusion with critical, higher-priority regulatory and warning sign color meanings readily understood by path users.**

Option:

- 28 Destination Guide signs for shared-use paths may display telephone numbers, Internet addresses, and e-mail addresses, including domain names and uniform resource locators (URLs).

Standard:

- 29 **If used, the use of telephone numbers, Internet addresses, and e-mail addresses shall be limited to direct contact information of the jurisdiction with authority of the shared-use path, or contact information for emergency service response, or both. Contact information for advertising purposes shall not be used.**

Section 9D.13 Two-Stage Bicycle Turn Box Guide Signs (D11-20 Series)

Support:

- 01 Two-stage bicycle turn boxes provide a way for a bicyclist to make a turn in a manner such that a merge across the general-purpose lanes is not required.
- 02 Section 9B.18 provides information about situations when the use of a two-stage bicycle turn box is required and also contains information about the Two-Stage Bicycle Turn Box (R9-23 series) regulatory signs.
- 03 Section 9E.11 contains information regarding pavement markings for two-stage bicycle turn boxes.

Option:

- 04 Where a two-stage bicycle turn box is provided, the Two-Stage Bicycle Turn Box guide sign series (see Figure 9D-1) may be used.

Standard:

- 05 **Where used, the Two-Stage Bicycle Turn Box Advance (D11-20) guide sign shall be mounted in advance of the intersection where the turn box is located.**
- 06 **Where used, the Two-Stage Bicycle Turn Box (D11-20a) guide sign shall be mounted on the far side of the intersection.**

Option:

- 07 Where the Two-Stage Bicycle Turn Box Advance (D11-20) guide sign is used, an additional Two- Stage Bicycle

Turn Box Advance guide sign may be mounted on the near side of the intersection where the turn box is located.

- 08 If used, an appropriately-sized Street Name (D3-1) sign (see Section 2D.45) may be installed below the Two-Stage Bicycle Turn Box Advance guide sign to identify the crossroad where the turn box will be available.

Support:

- 08a Refer to FHWA's List of Known Errors for error between Paragraphs 8 and 9. Refer to Section 1A.04 for more details.

- 09 Figure 9D-7 shows an example of Two-Stage Bicycle Turn Box guide signs at a location where the use of the turn box is optional.

Section 9D.14 General Service Signing for Bikeways

Option:

- 01 General Service signs (see Chapter 2I) may be used on bikeways.

Standard:

- 02 **The sizes of General Service signs intended for viewing by both bicyclists and other road users shall comply with the sizes in Table 2I-1.**

Option:

- 03 General Service signs intended for the exclusive use of bicyclists may be of reduced size.

Section 9D.101(CA) Signs on Overcrossing Structures

Support:

- 01 Signage identifying overcrossing structures over a Class I or IV bikeway can be useful in orienting bikeway users.

- 02 Consider the skew of the structure (greater than 45 degrees), height of the overcrossing structure, and other pertinent factors while determining the feasibility of installing the sign.

Option:

- 03 Street Name (I2-3 and I2-3A) signs identifying the overcrossing structure over a Class I or IV bikeway may be installed on the overcrossing structure. If sign installation on the overcrossing is not practical, roadside sign installation may be considered.

Guidance:

- 04 *Structural analysis should be considered prior to installation of signs on the overcrossing structure.*

Figure 9D-1. Guide Signs and Plaques for Bicycle Facilities (Sheet 1 of 3)



D1-1



D1-1a



D1-1b



D1-1c



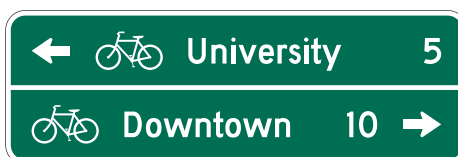
D1-2



D1-2a



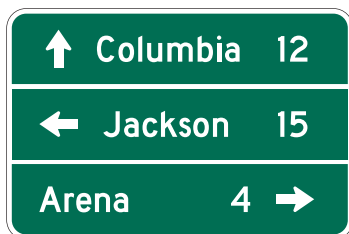
D1-2b



D1-2c



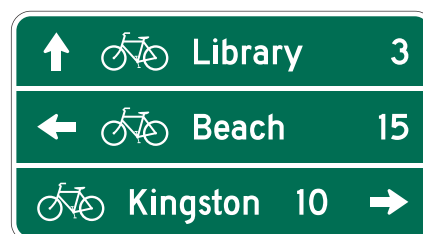
D1-3



D1-3a



D1-3b



D1-3c



D2-1



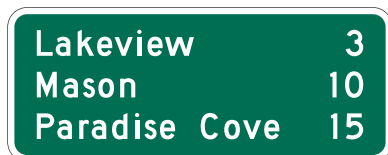
D2-1a



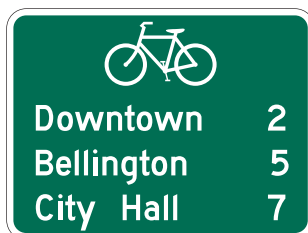
D2-2



D2-2a



D2-3



D2-3a



D3-1



D4-3

Figure 9D-1. Guide Signs and Plaques for Bicycle Facilities (Sheet 2 of 3)

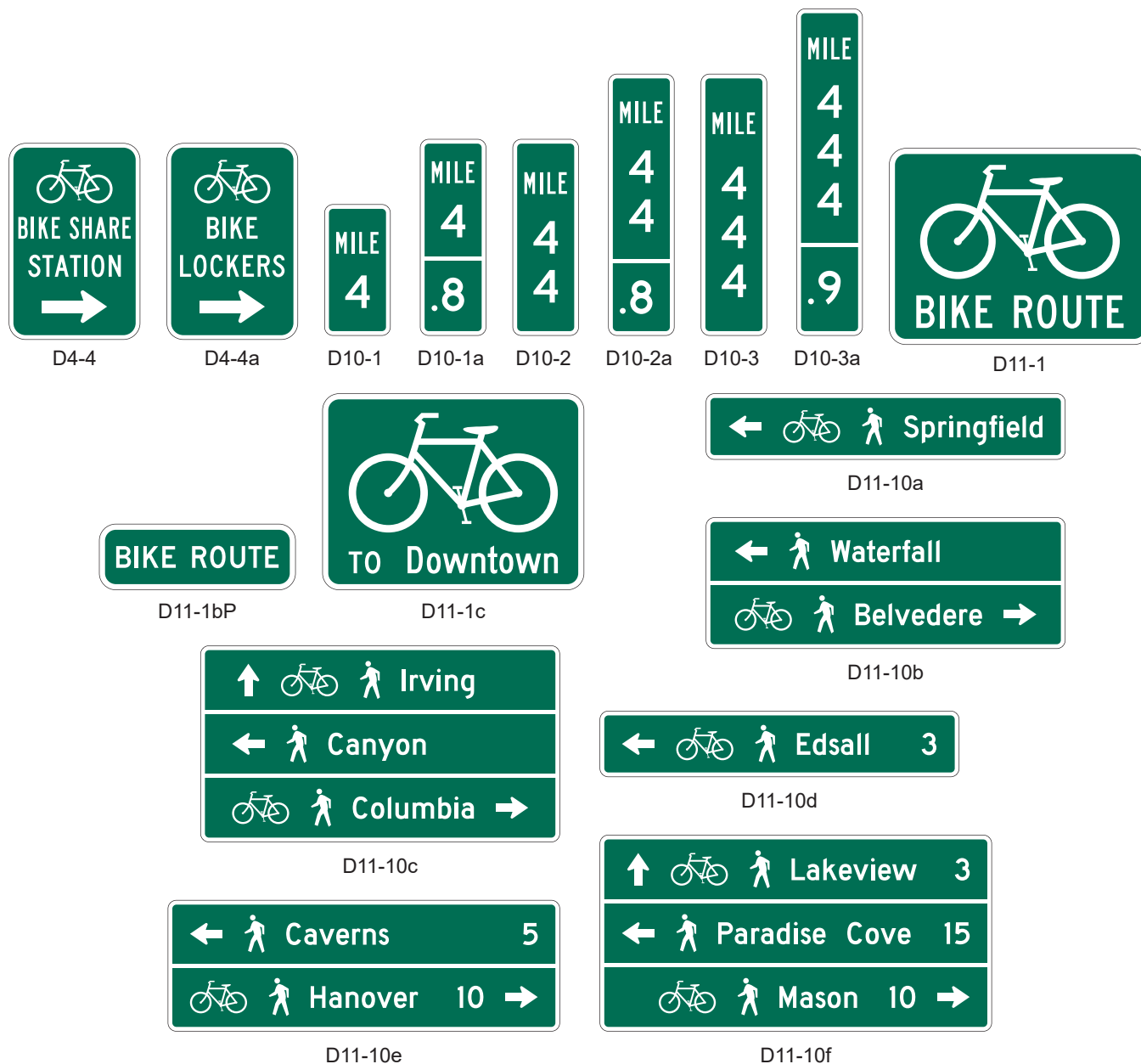


Figure 9D-1. Guide Signs and Plaques for Bicycle Facilities (Sheet 3 of 3)

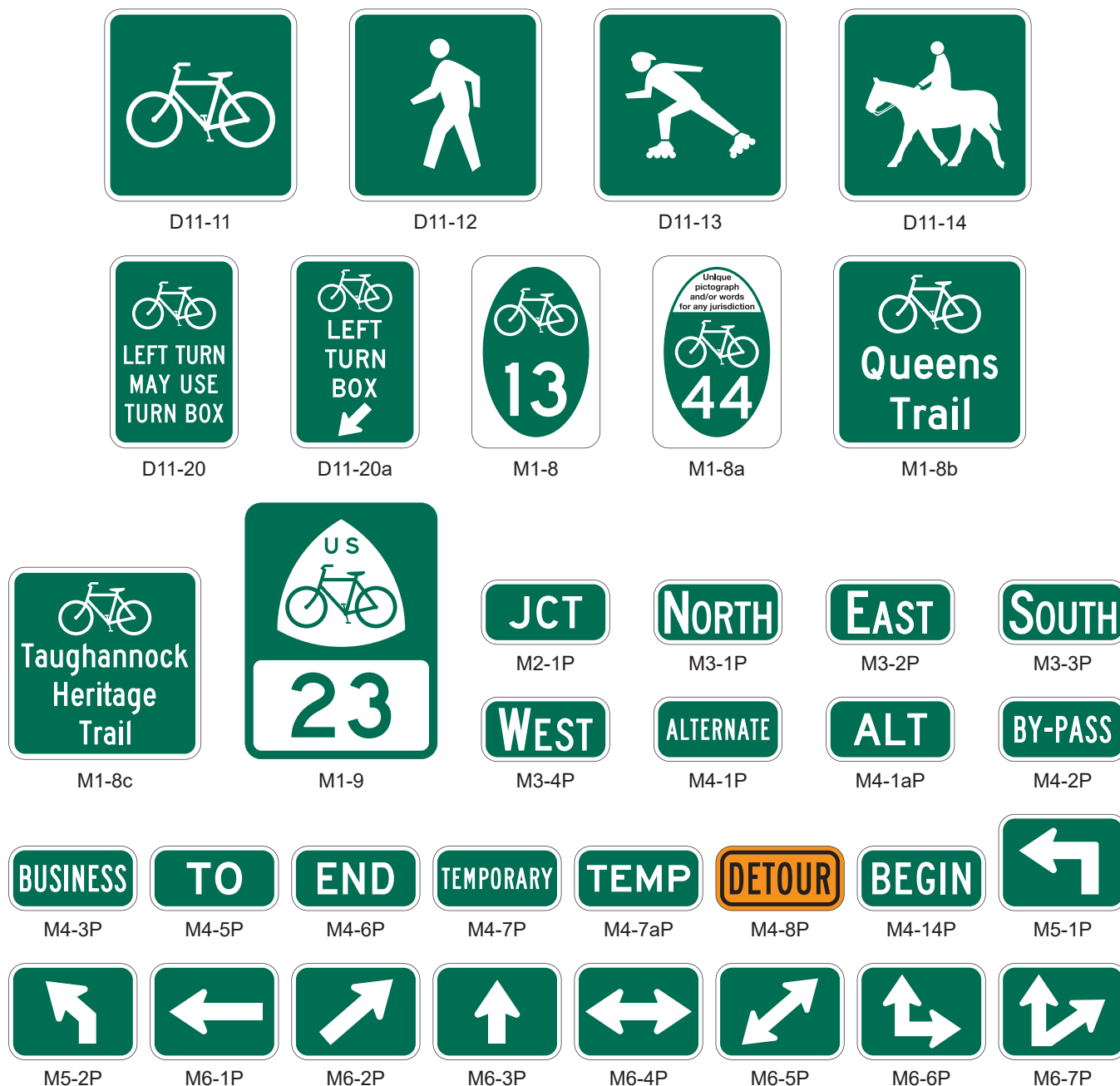


Figure 9D-1(CA). California Guide Signs and Plaques for Bicycle Facilities



G12-3(CA)

Figure 9D-2. Examples of Bicycle Guide Signing (Sheet 1 of 2)

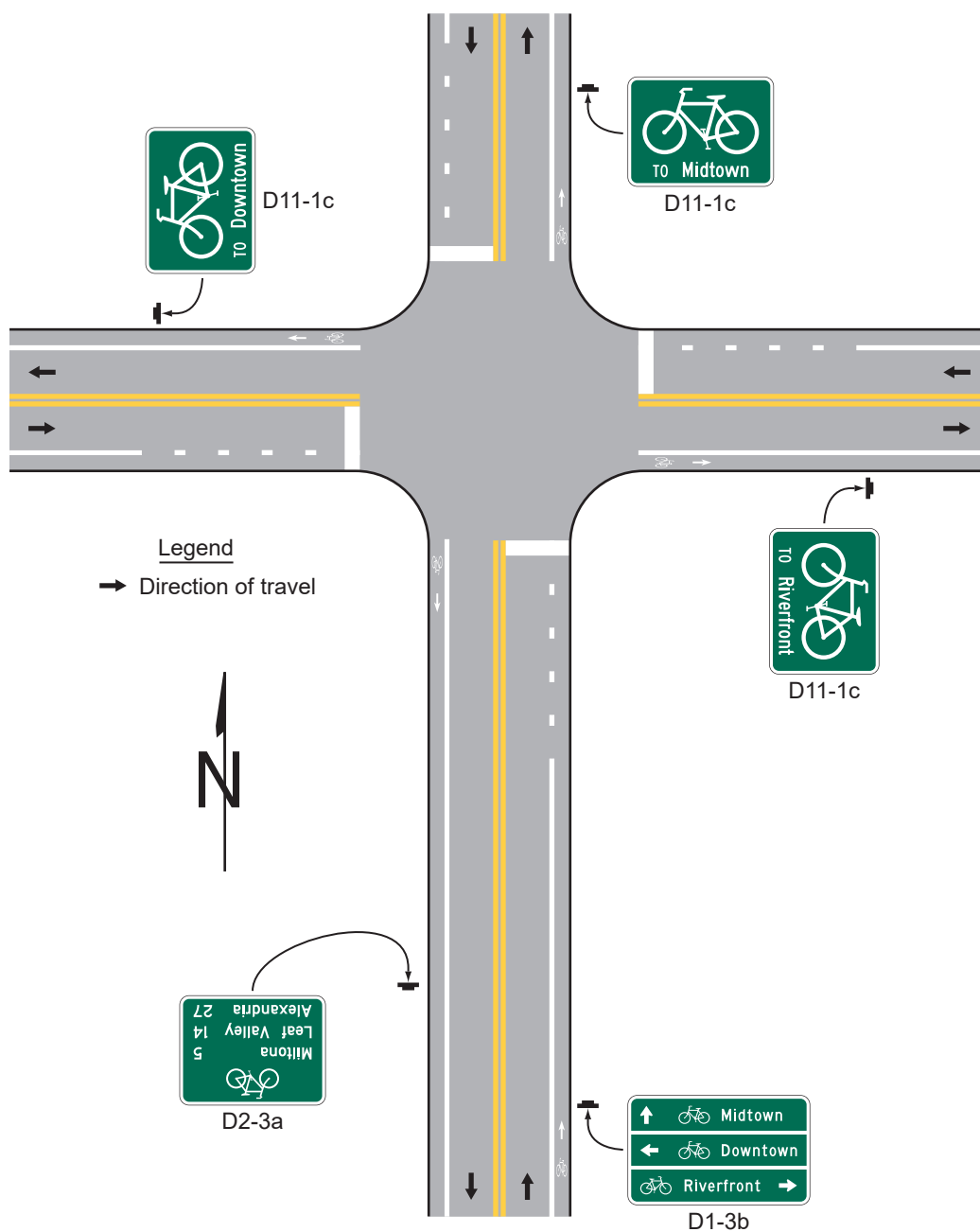


Figure 9D-2. Examples of Bicycle Guide Signing (Sheet 2 of 2)

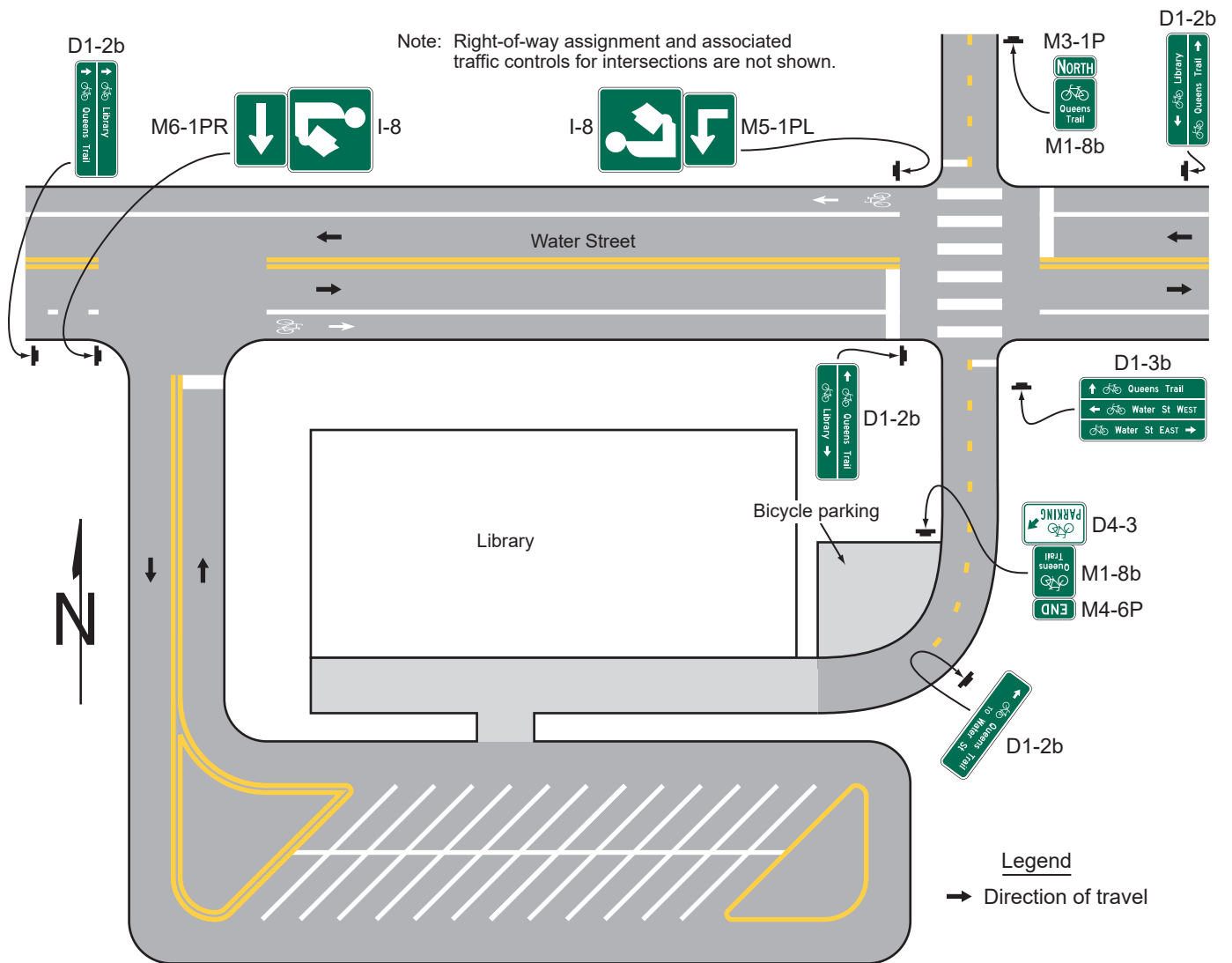
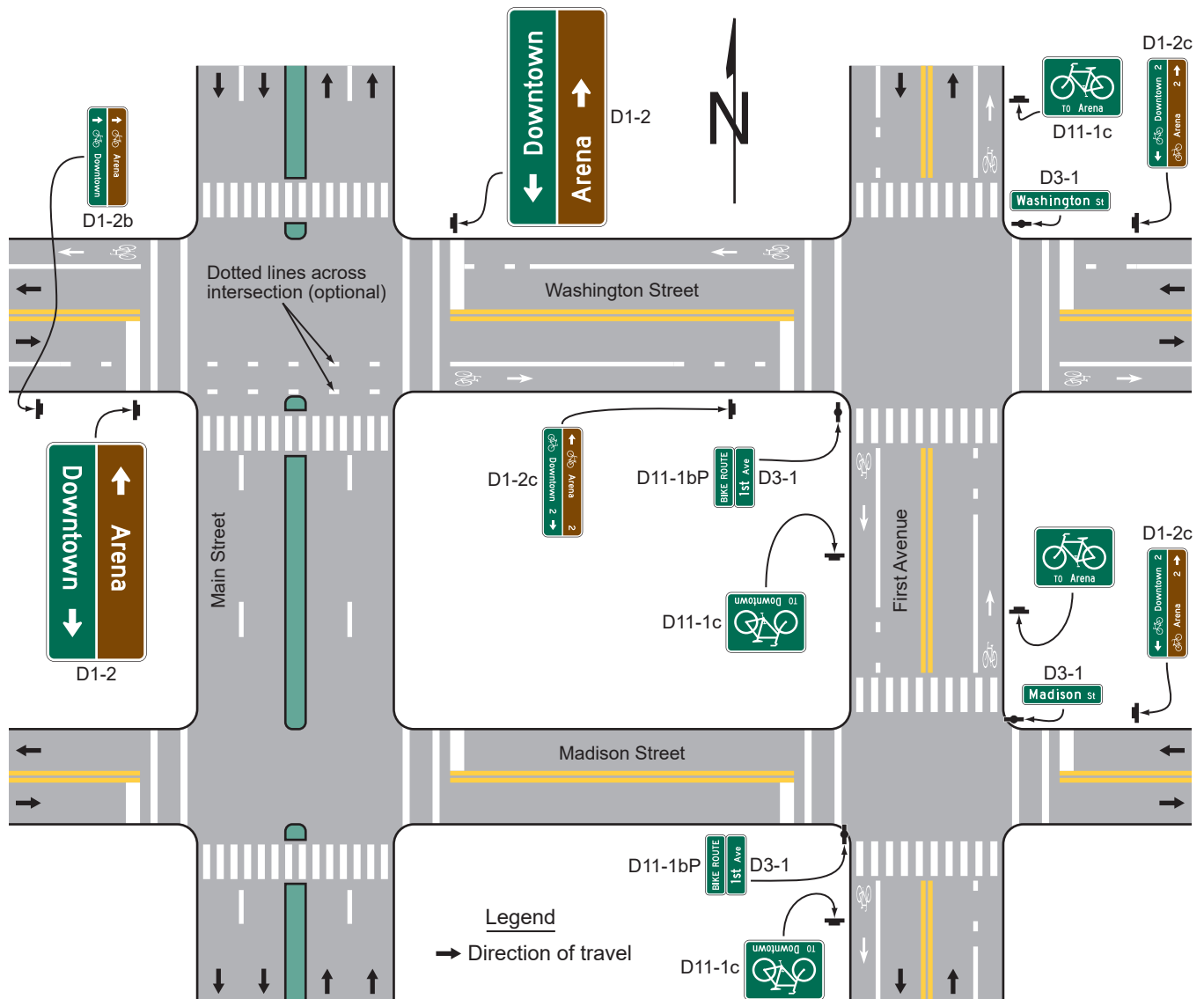


Figure 9D-3. Example of Bicycle Route Guide Signing



Note: The D1-2 signs are larger than the other guide signs on this figure because the legends on the D1-2 signs need to be legible to motorists.

Figure 9D-4. Examples of Route Signing for Numbered or Named Bicycle Routes

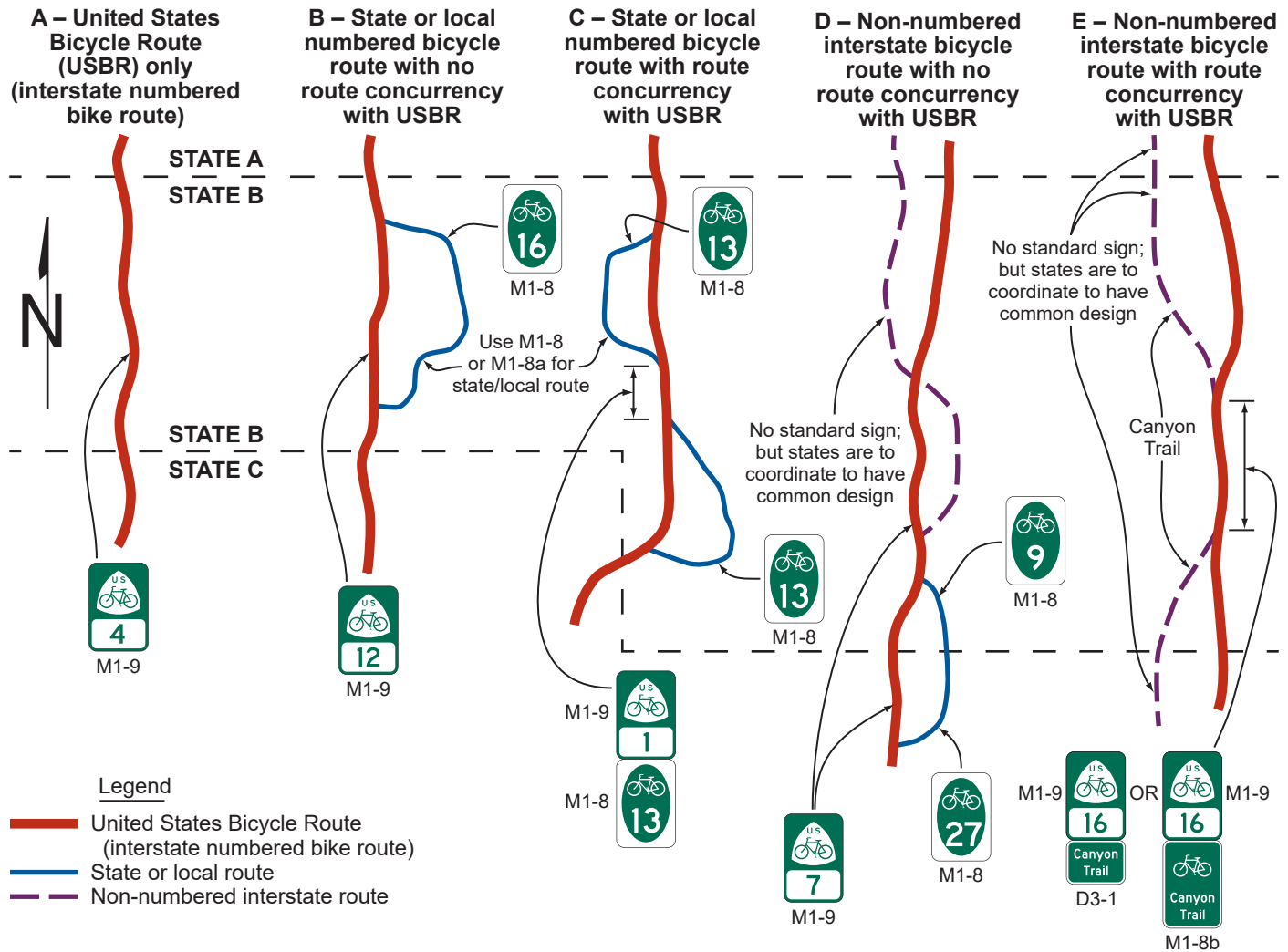


Figure 9D-5. Examples of Mode-Specific Guide Signing on a Shared-Use Path

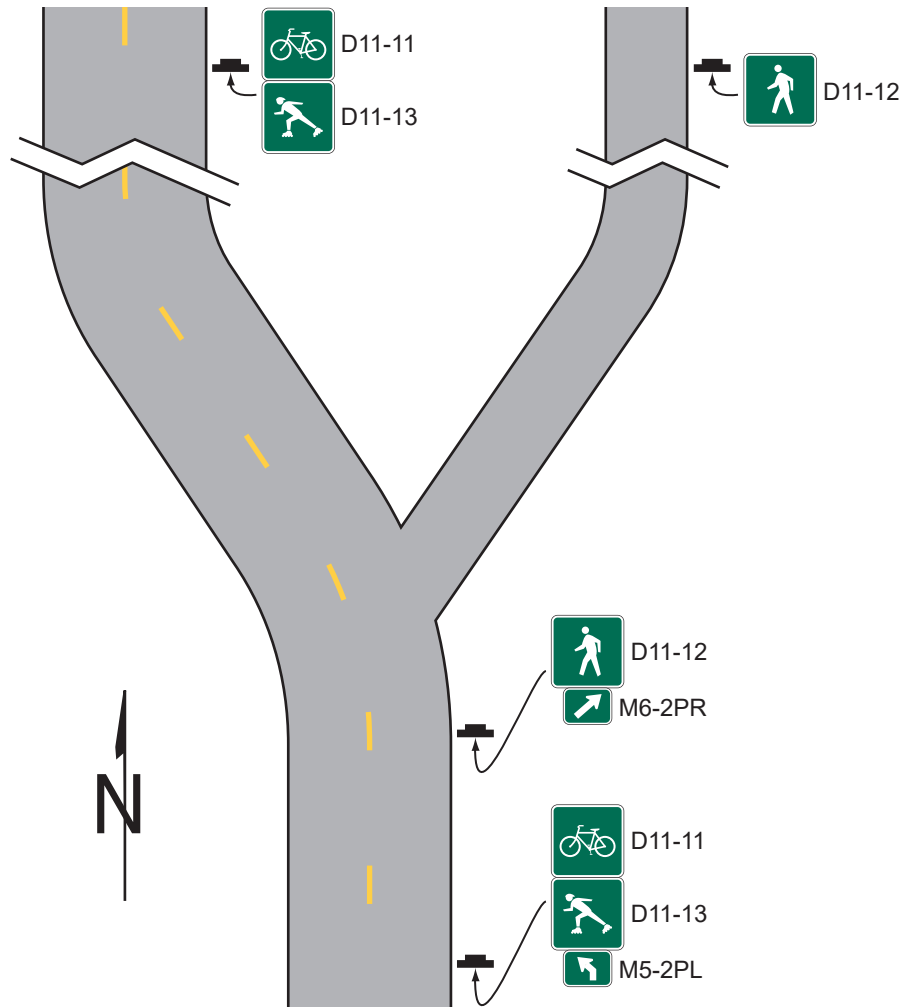


Figure 9D-6. Examples of Destination Guide Signs for Shared-Use Paths

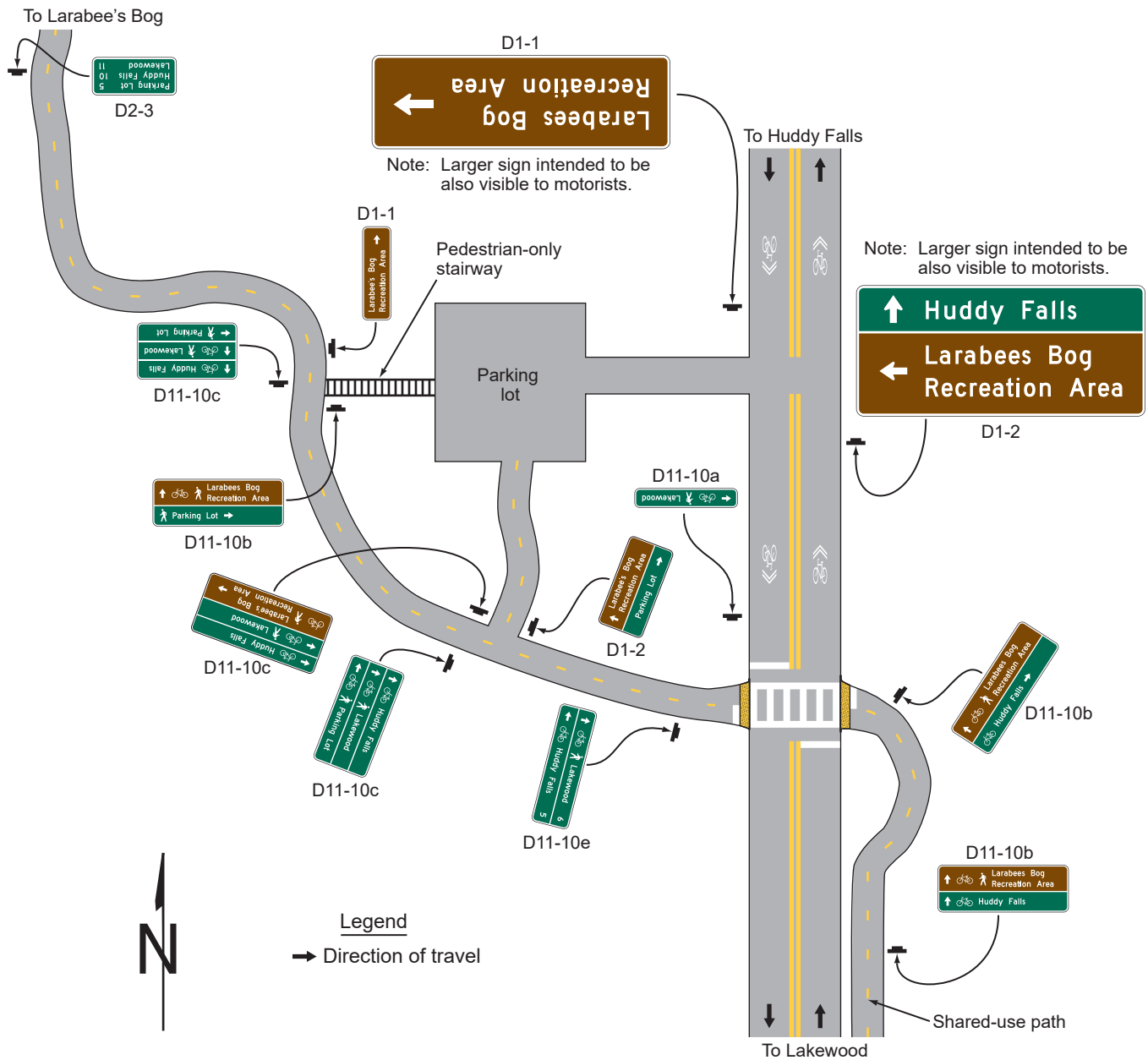
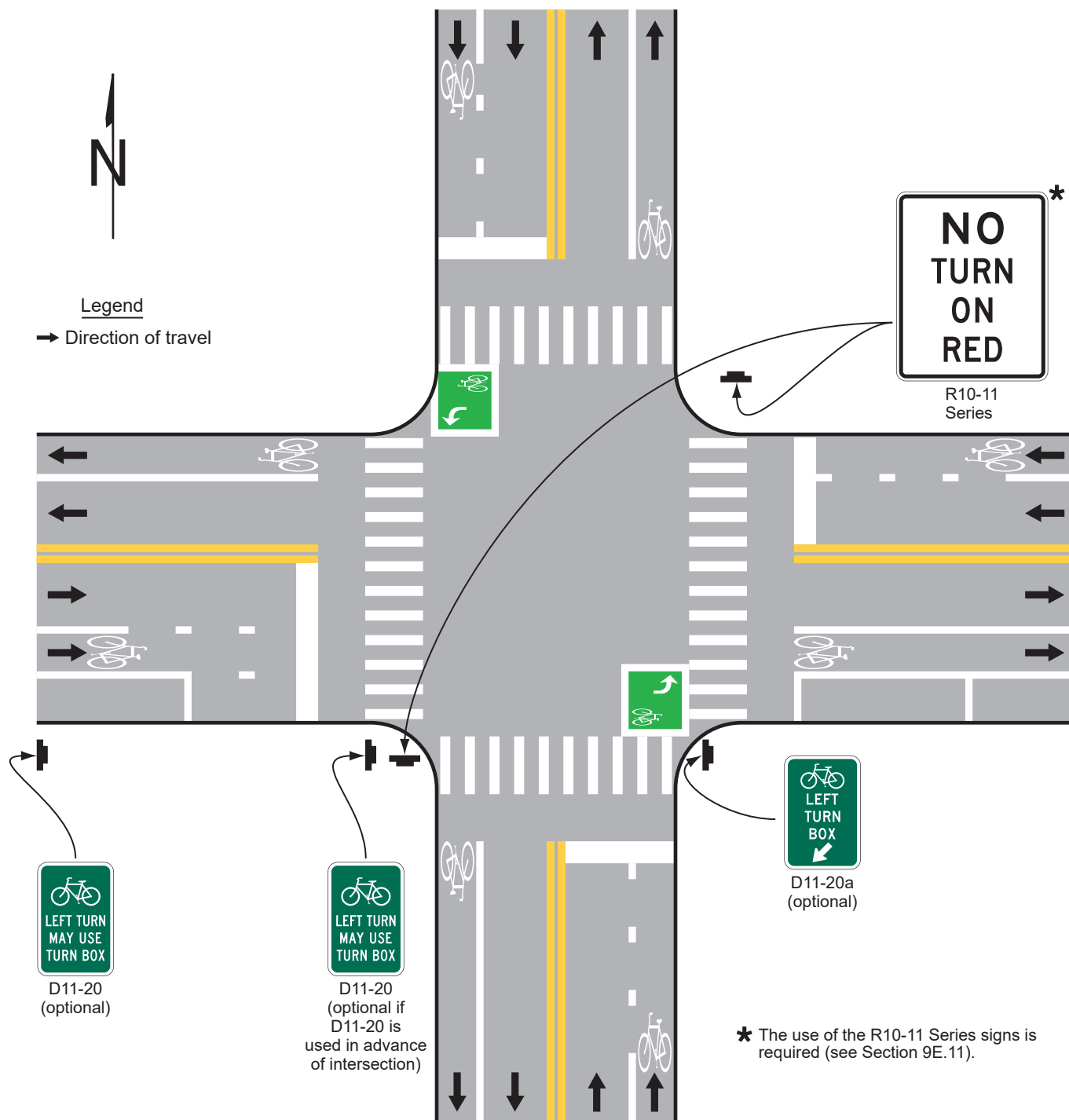


Figure 9D-7. Example of Two-Stage Bicycle Turn Box when Use is Optional**



** Refer to FHWA's List of Known Errors for error in the title. Refer to Section 1A.04 for more details.