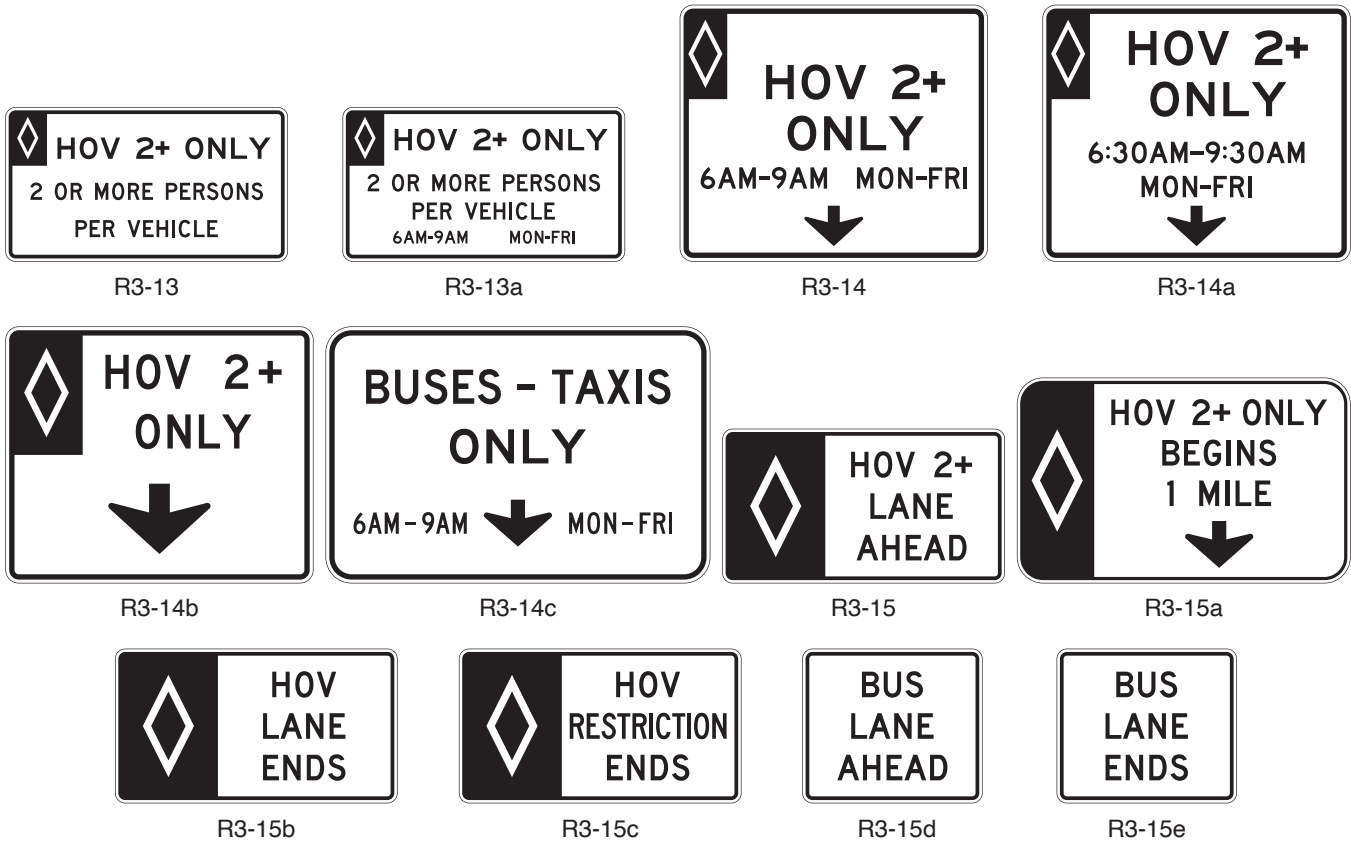


R3-10	R3-10a	R3-11	R3-11a		
R3-11b	R3-11c	R3-11d	R3-11e	R3-11f	R3-11g
R3-11hP	R3-12	R3-12a	R3-12b	R3-12c	R3-12d
R3-12e	R3-12f	R3-12g	R3-12h		

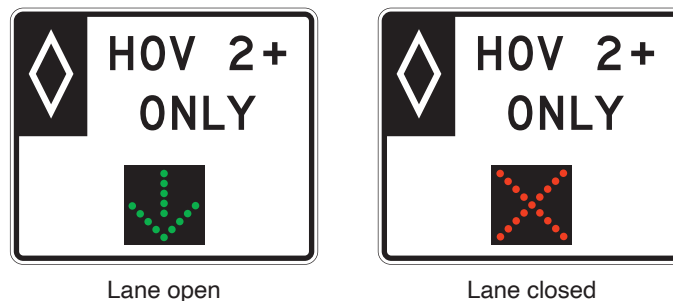
1. The minimum vehicle occupancy requirement may vary for each facility (such as 2+, 3+, 4+).
2. The occupancy requirement may be added to the first line of the R3-12a, R3-12b, R3-12c, and R3-12d signs.
3. Some of the legends shown on these signs are for example purposes only. The specific legend for a particular application should be based upon local conditions, ordinances, and State statutes.

Figure 2G-1. Preferential Lane Regulatory Signs and Plaque (Sheet 2 of 2)

B – Overhead Preferential Lane regulatory signs



A lane-use control signal may be incorporated into an overhead preferential lane regulatory sign to indicate the status of a reversible operation as shown in the following example:



Notes:

1. The minimum vehicle occupancy requirement may vary for each facility (such as 2+, 3+, 4+).
2. The occupancy requirement may be added to the first line of the R3-15b and R3-15c signs.
3. Some of the legends shown on these signs are for example purposes only. The specific legend for a particular application should be based upon local conditions, ordinances, and State statutes.
4. Where sufficient median width is available, the R3-13 series and R3-15 series signs may be post-mounted.

Figure 2G-1(CA).

~~Figure 2G-1 (CA).~~ Preferential Lane Regulatory Signs and Plaques



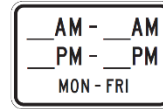
R33B (CA)



R33C (CA)



~~R82A (CA)~~
R82aP(CA)



~~R82B (CA)~~
R82bP(CA)



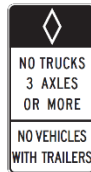
R88 (CA)



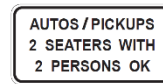
R90-1 (CA)



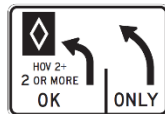
R91-1 (CA)



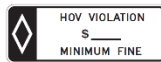
R91-4 (CA)



~~R91B (CA)~~
R91bP(CA)



R94 (CA)



SR50-1 (CA)



SR50-2 (CA)



SR60-1 (CA)



SR60-2 (CA)



SR60-6 (CA)



SR60-8 (CA)

Figure 2G-2. Example of Signing for an Added Continuous-Access Contiguous or Buffer-Separated HOV Lane

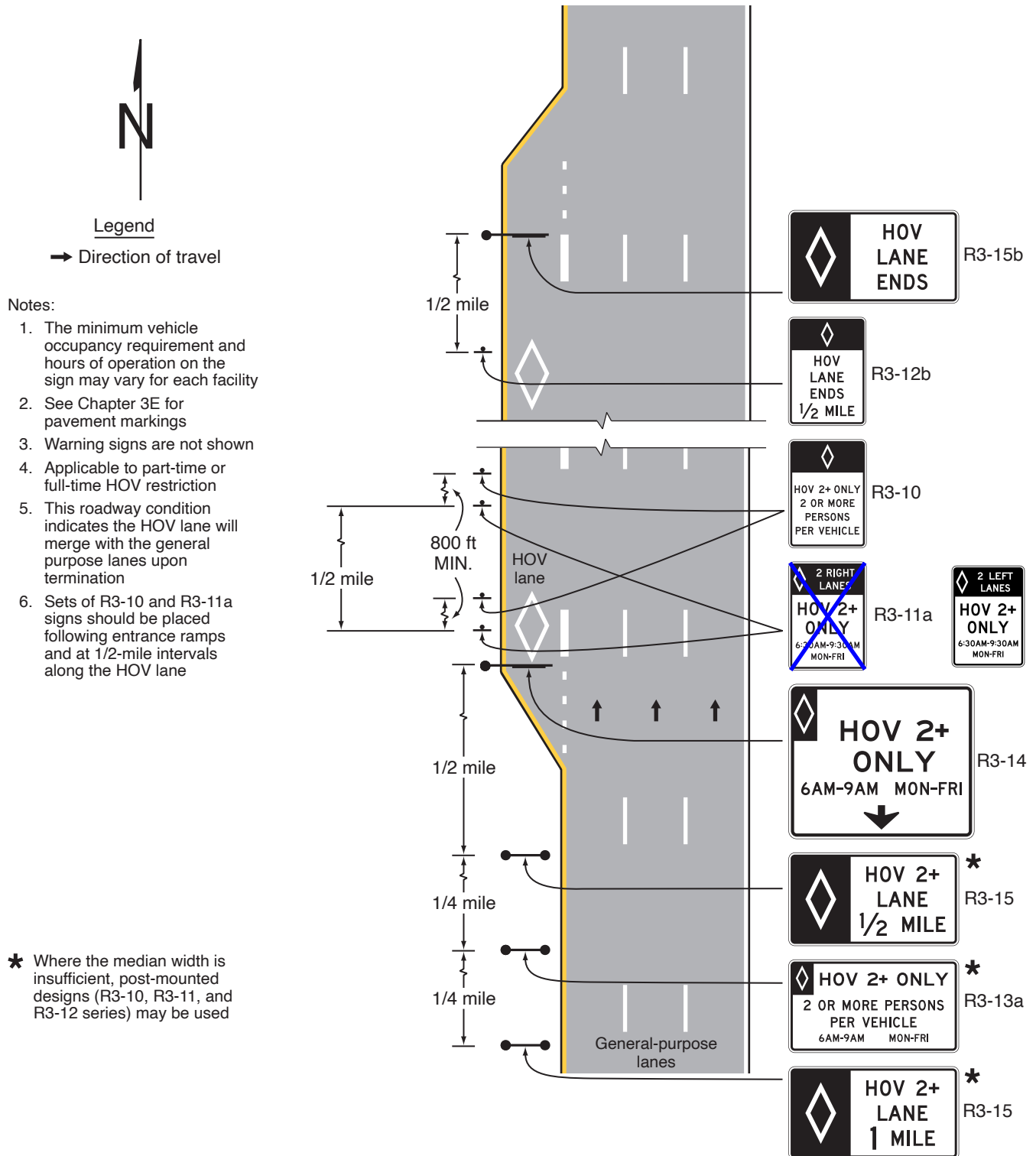


Figure 2G-3. Example of Signing for a General-Purpose Lane that Becomes a Continuous-Access Contiguous or Buffer-Separated HOV Lane

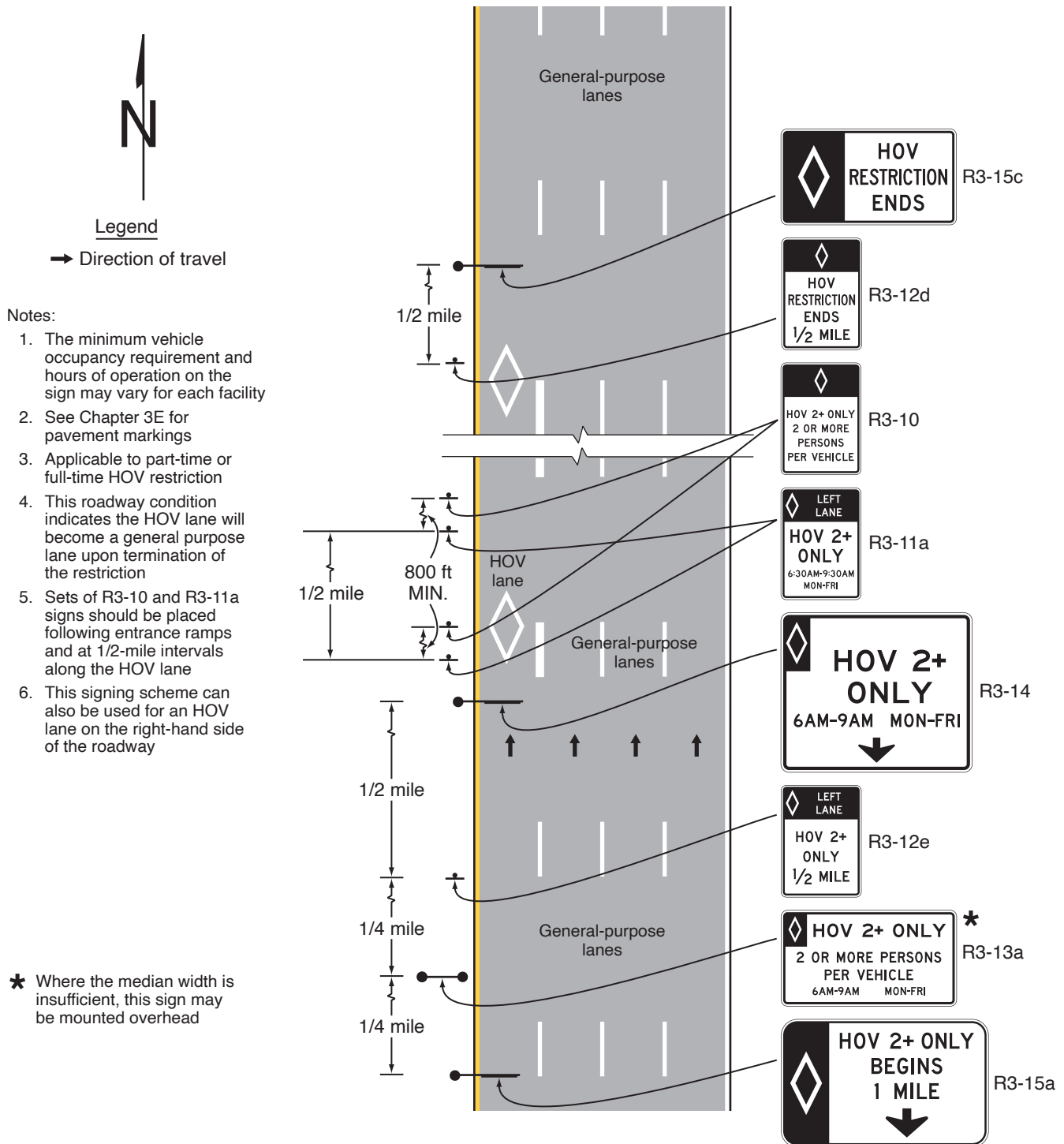
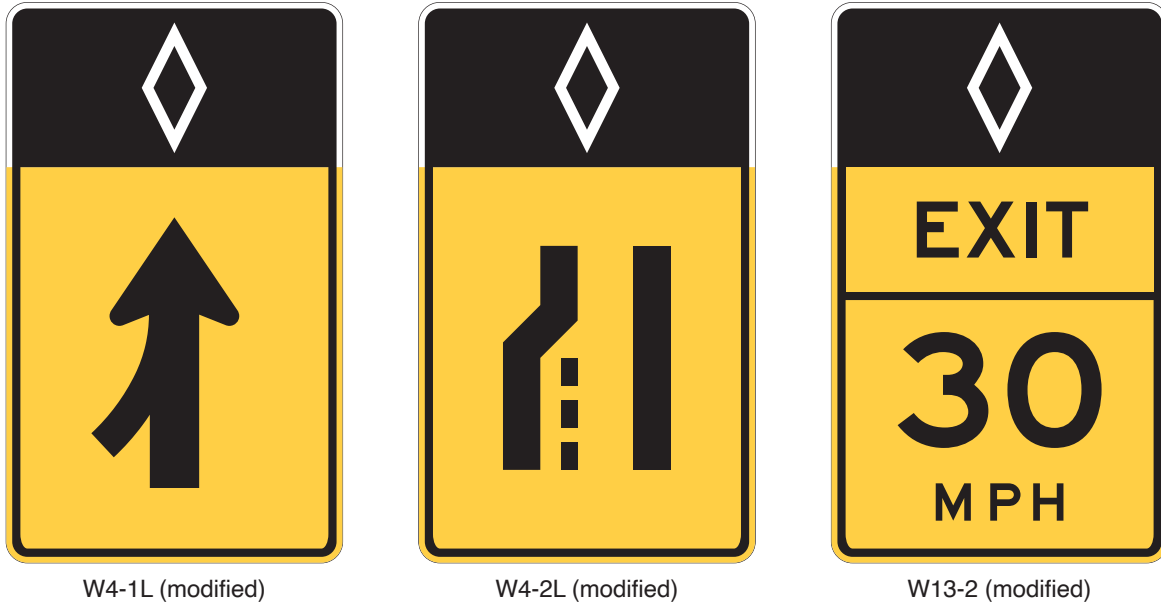


Figure 2G-4. Examples of Warning Signs and Plaques Applicable Only to Preferential Lanes

A – Barrier-mounted rectangular warning signs



B – Warning plaque for use above standard diamond-shaped warning signs



Note: An HOV lane example (diamond symbol) is illustrated. For other types of preferential lanes, the appropriate symbol or word message (see Section 2G.03) shall be displayed in white on the black background of the top portion of these signs.

Figure 2G-4(CA).

~~Figure 2G-4(CA).~~ Examples of Warning Signs and Plaques Applicable Only to Preferential Lanes



**Figure 2G-5. Example of an Overhead Advance Guide Sign
for a Preferential Lane Entrance**



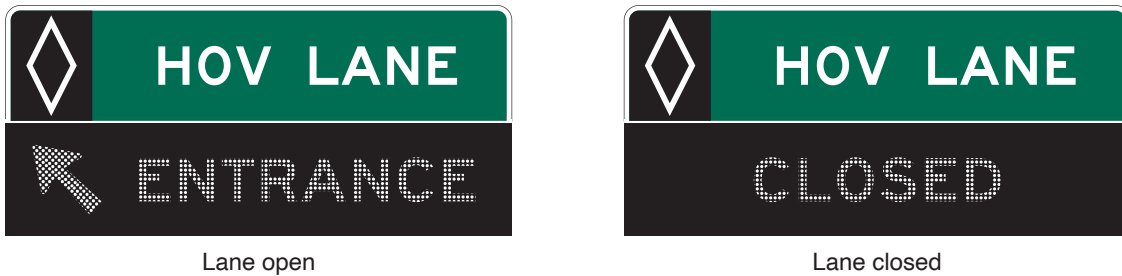
E8-3

Note: An example of an HOV lane (diamond symbol) sign is illustrated. For other types of preferential lanes, the appropriate symbol or word message (see Section 2G.03) is displayed in white on the black background of the left-hand portion of this sign.

Figure 2G-6. Examples of Overhead or Post-Mounted Preferential Lane Entrance Direction Signs



A changeable message sign may be incorporated into an overhead Preferential Lane guide sign to indicate the status of a reversible operation as shown in the following example:



Note: Examples of HOV lane (diamond symbol) signs are illustrated. For other types of preferential lanes, the appropriate symbol or word message (see Section 2G.03) is displayed in white on the black background of the top left-hand portion of these signs.

Figure 2G-6(CA).

Figure 2G-6 (CA). Guide Signs for Direct Entrances to Preferential Lanes From Another Highway

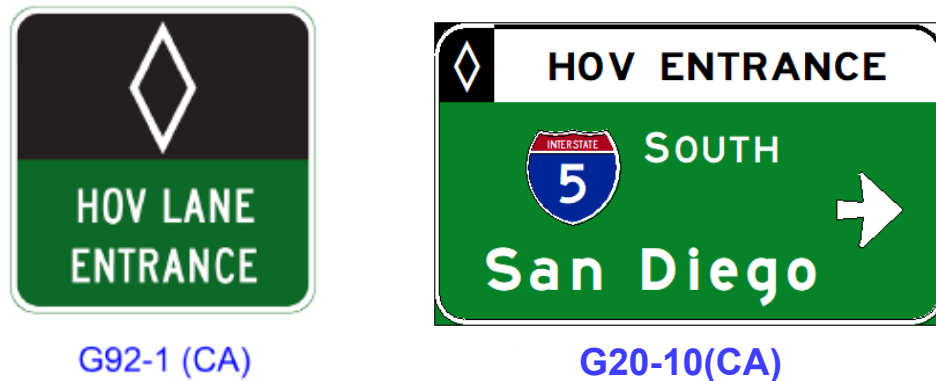
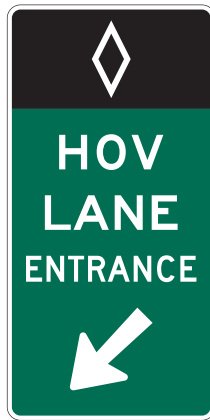


Figure 2G-7. Entrance Gore Signs for Barrier-Separated Preferential Lanes



E8-1



E8-1a

Note: Examples of HOV lane (diamond symbol) signs are illustrated. For other types of preferential lanes, the appropriate symbol or word message (see Section 2G.03) is displayed in white on the black background of the top portion of these signs.

Figure 2G-8. Example of Advance Guide and Entrance Direction Signs for a General-Purpose Lane that Becomes a Preferential Lane

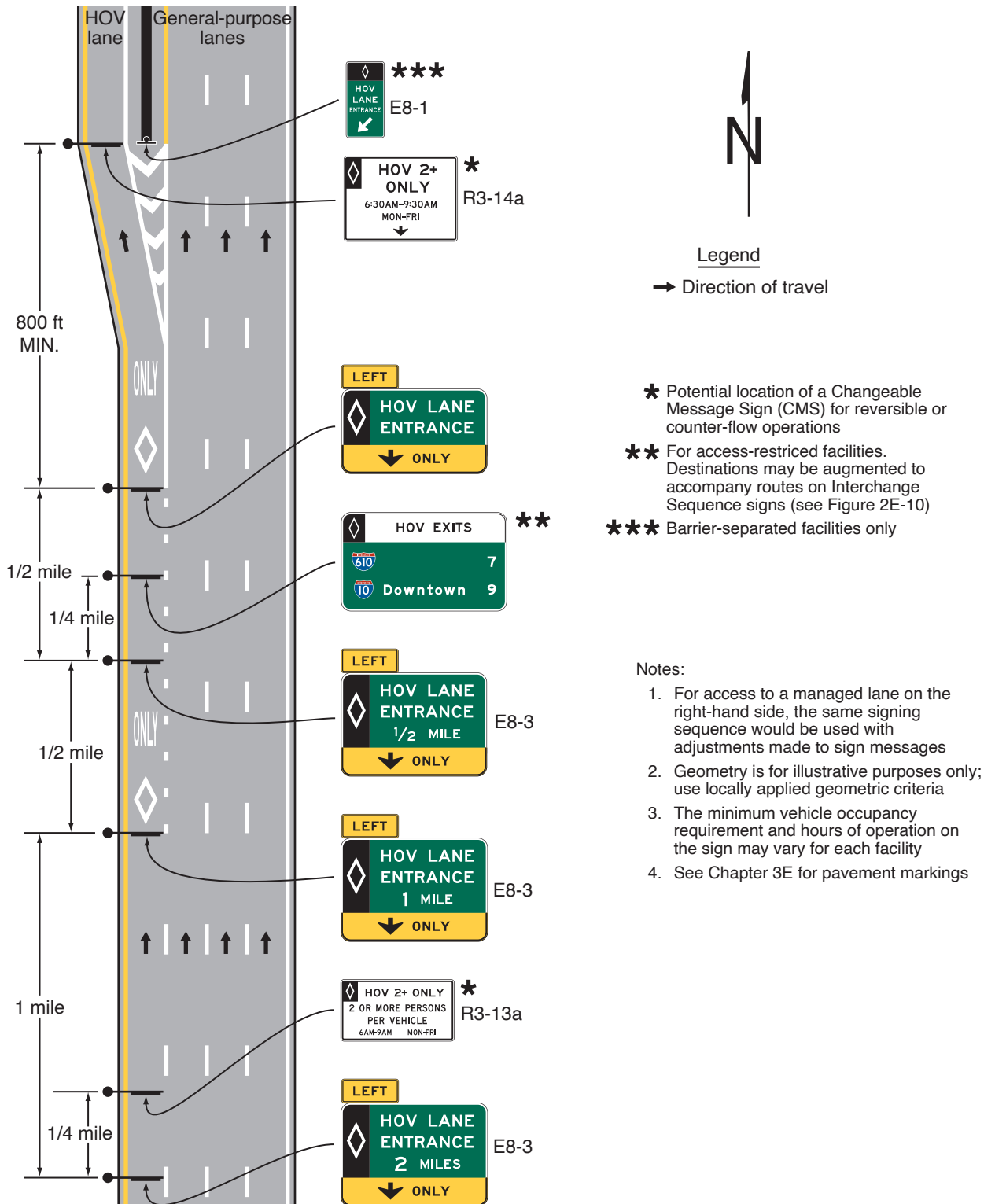


Figure 2G-9. Example of Signing for an Entrance to Access-Restricted HOV Lanes

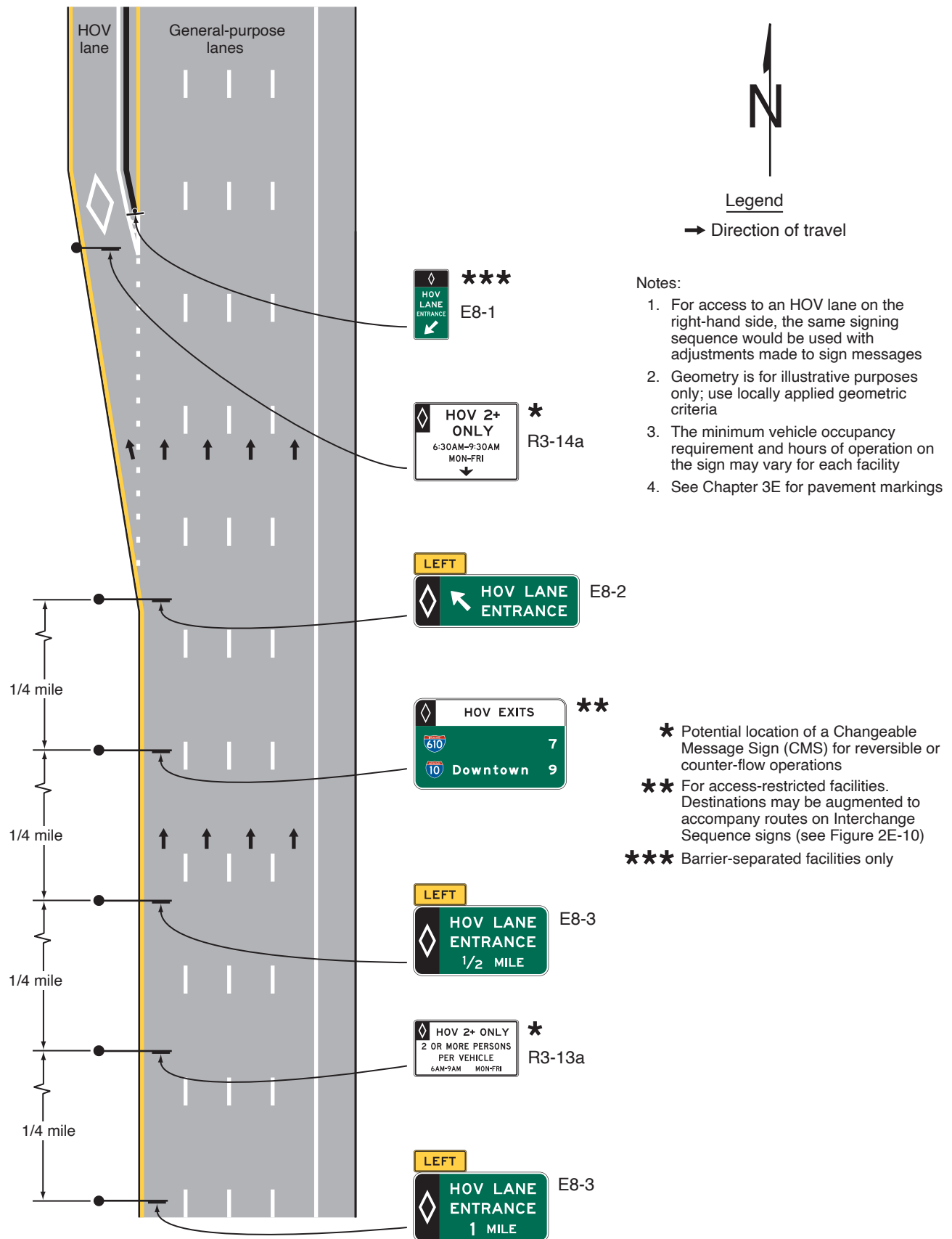


Figure 2G-10. Example of Signing for an Intermediate Entry to a Barrier-Separated or Buffer-Separated HOV Lane

Notes:

1. For access to an HOV lane on the right-hand side, the same signing sequence would be used with adjustments made to sign messages
2. Geometry is for illustrative purposes only; use locally applied geometric criteria
3. The minimum vehicle occupancy requirement and hours of operation on the sign may vary for each facility
4. See Chapter 3E for pavement markings.
5. Warning signs are not shown

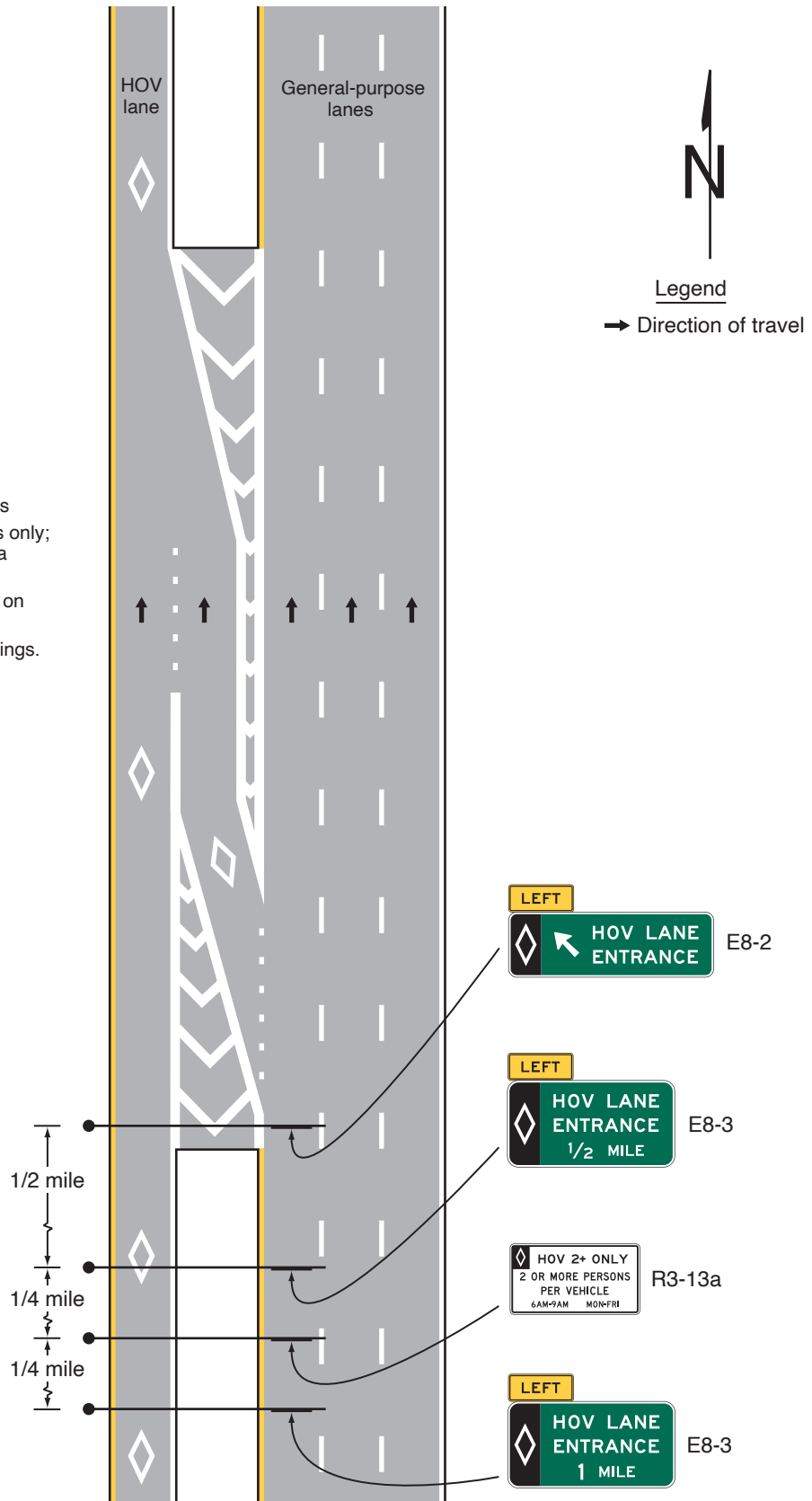


Figure 2G-11. Example of Signing for the Intermediate Entry to, Egress from, and End of Access-Restricted HOV Lanes

Notes:

1. Geometry is for illustrative purposes only; use locally applied geometric criteria
2. The minimum vehicle occupancy requirement and hours of operation on the sign may vary for each facility
3. See Chapter 3E for pavement markings
4. Warning signs are not shown
5. This roadway condition indicates that the HOV lane will merge with the general-purpose lanes at the point of termination. Refer to Figure 2G-3 for guidance when the HOV lane restriction ends and the lane transitions to a general-purpose lane on freeways and expressways.

* Barrier-separated facilities only

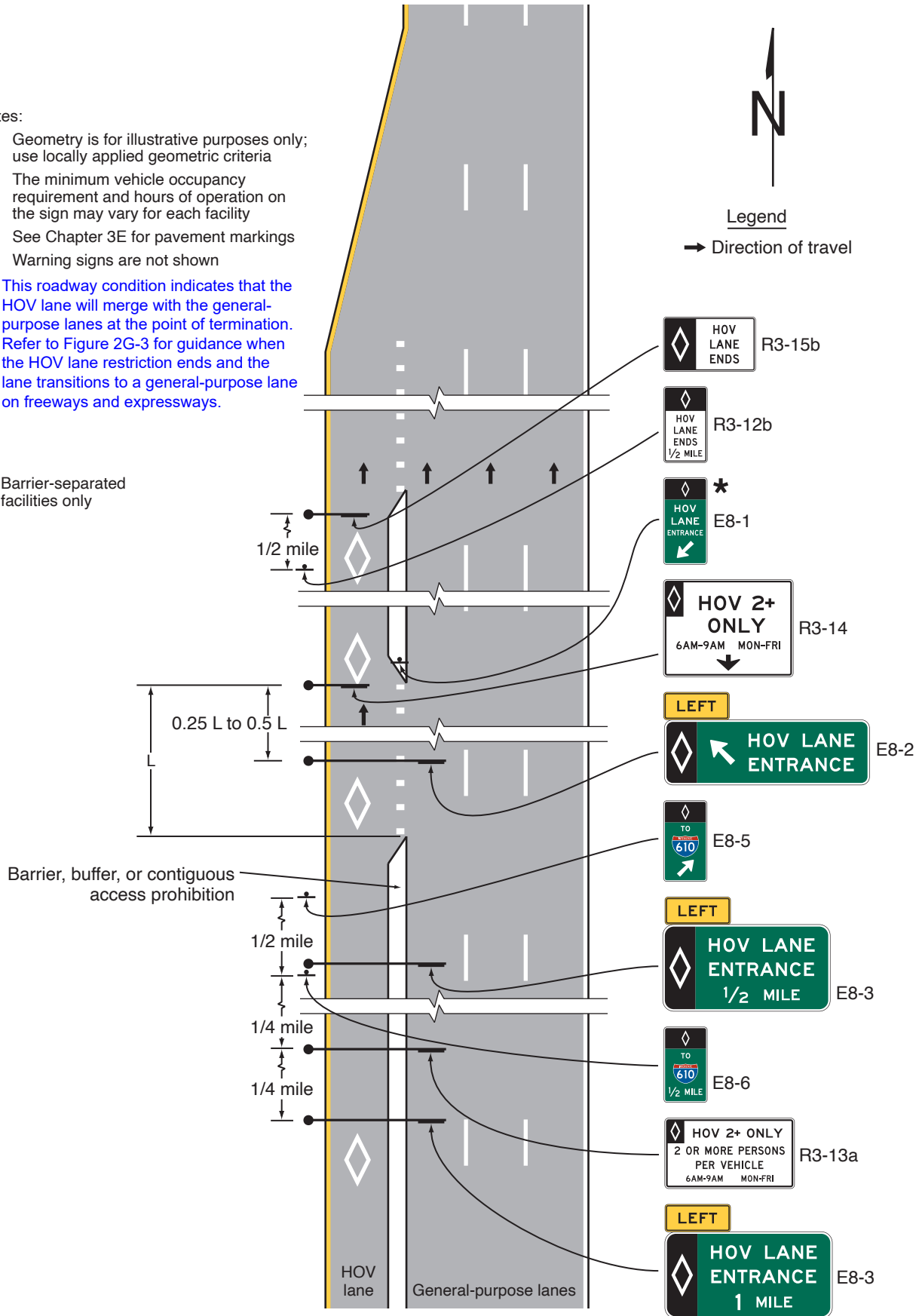


Figure 2G-12. Examples of Barrier-Mounted Guide Signs for an Intermediate Egress from Preferential Lanes



Note: Examples of HOV lane (diamond symbol) signs are illustrated. For other types of preferential lanes, the appropriate symbol or word message (see Section 2G.03) is displayed in white on the black background of the top portion of these signs.

Figure 2G-13. Examples of Signs for an Intermediate Egress from a Barrier-Separated or Buffer-Separated HOV Lane

Notes:

1. For an exit on the left-hand side from an HOV lane, the same signing sequence would be used with adjustments made to sign messages
2. Geometry is for illustrative purposes only; use locally applied geometric criteria
3. The minimum vehicle occupancy requirement and hours of operation on the sign may vary for each facility
4. See Chapter 3E for pavement markings
5. Warning signs are not shown
6. See Figures 2D-4 and 2D-4 (CA) for appropriate route shield and/or marker selection.

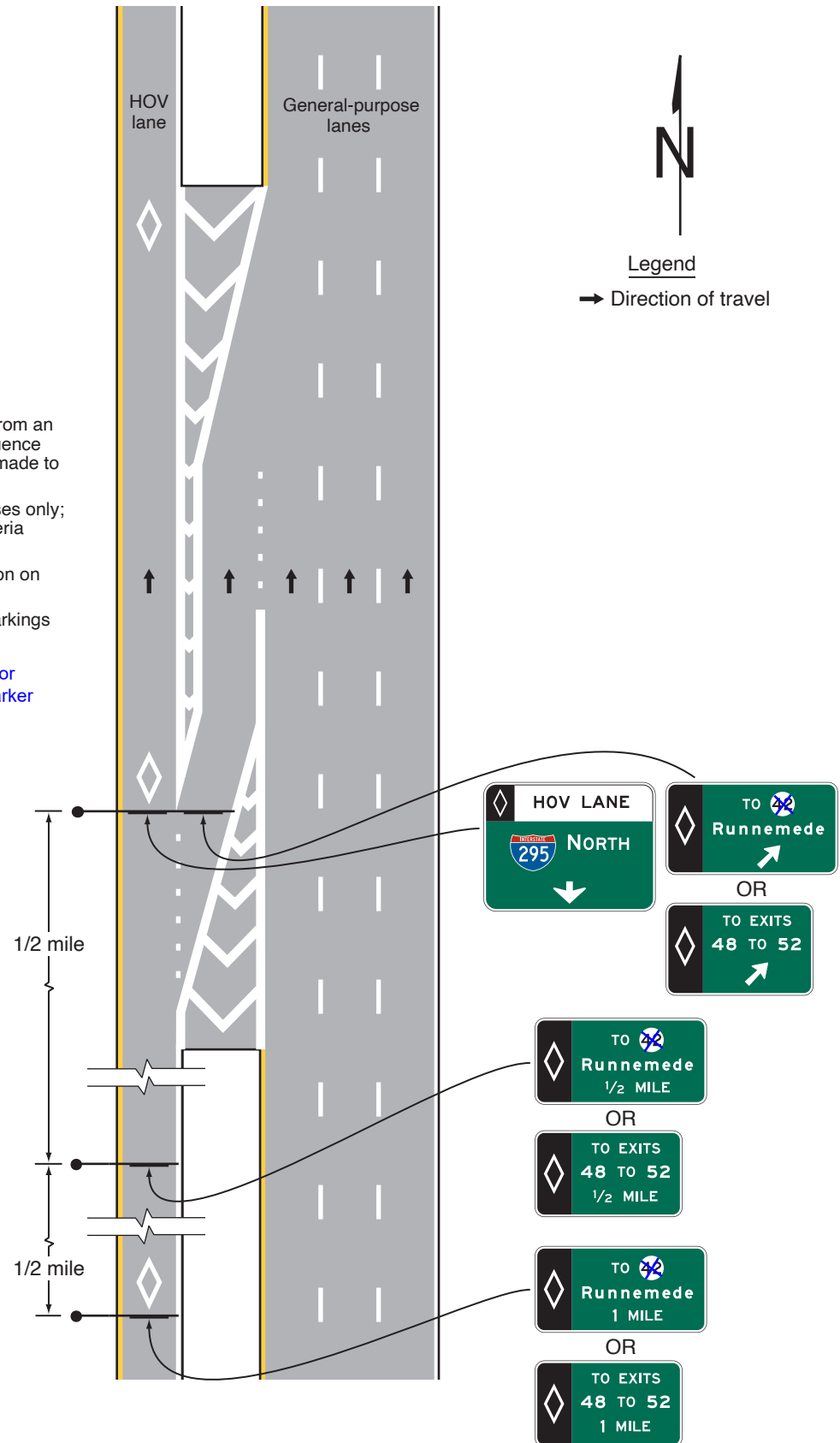
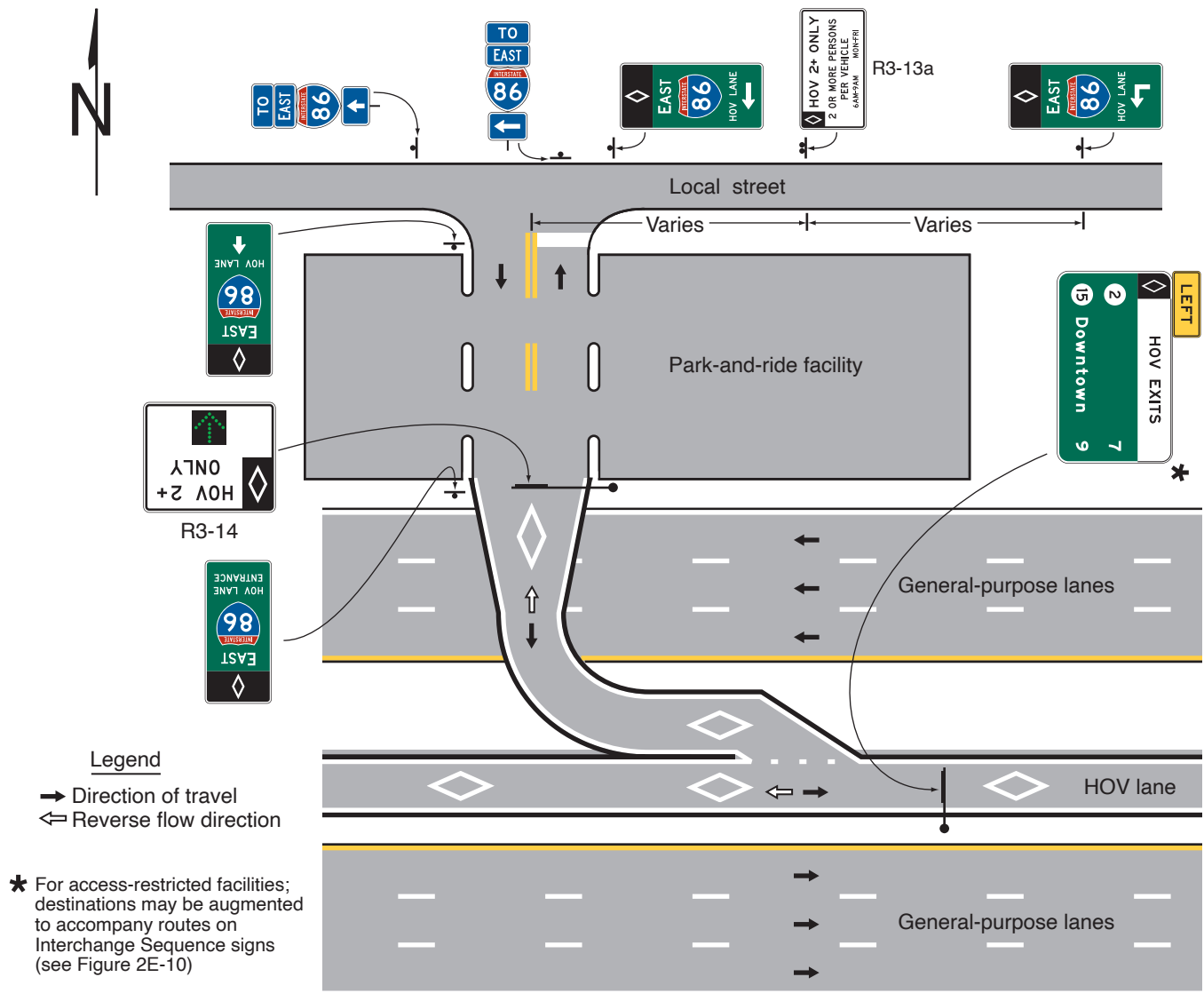


Figure 2G-14. Example of Signing for a Direct Entrance Ramp to an HOV Lane from a Park-and-Ride Facility and a Local Street



Notes:

1. The minimum vehicle occupancy requirement on the sign may vary for each facility
2. See Chapter 3E for pavement markings
3. Warning signs are not shown
4. Sign locations are approximate
5. Additional signs may be required to direct drivers from the surrounding streets into the park-and-ride lot and the HOV lane
6. Additional signs are required on the adjoining surface streets to inform non-HOVs that they should not enter the HOV facility
7. This figure illustrates a reversible HOV lane with a direct access ramp
8. The guide signs directing local street traffic to the HOV lane should include the word ENTRANCE when the direct access ramp does not traverse a park-and-ride facility

Figure 2G-15. Exit Gore Sign for a Direct Exit from a Preferential Lane

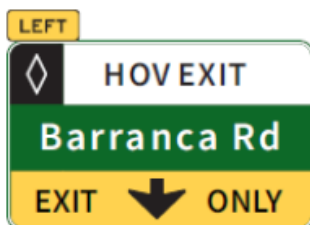


E8-4

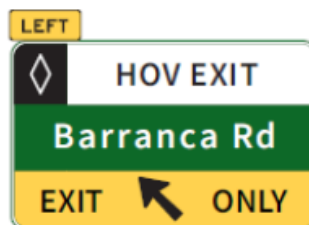
Note: An example of an HOV lane (diamond symbol) sign is illustrated. For other types of preferential lanes, the appropriate symbol or word message (see Section 2G.03) is displayed in white on the black background of the top portion of this sign.

Figure 2G-15(CA)

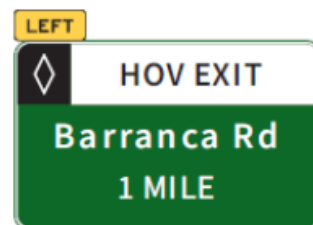
~~Figure 2G-14 (CA).~~ **Advanced Guide and Exit Direction Sign for a Direct Exit from a Preferential lane**



G83-6 (CA)



G85-12 (CA)



G86-15 (CA)

Figure 2G-16. Examples of Guide Signs for Direct HOV Lane Entrance and Exit Ramps

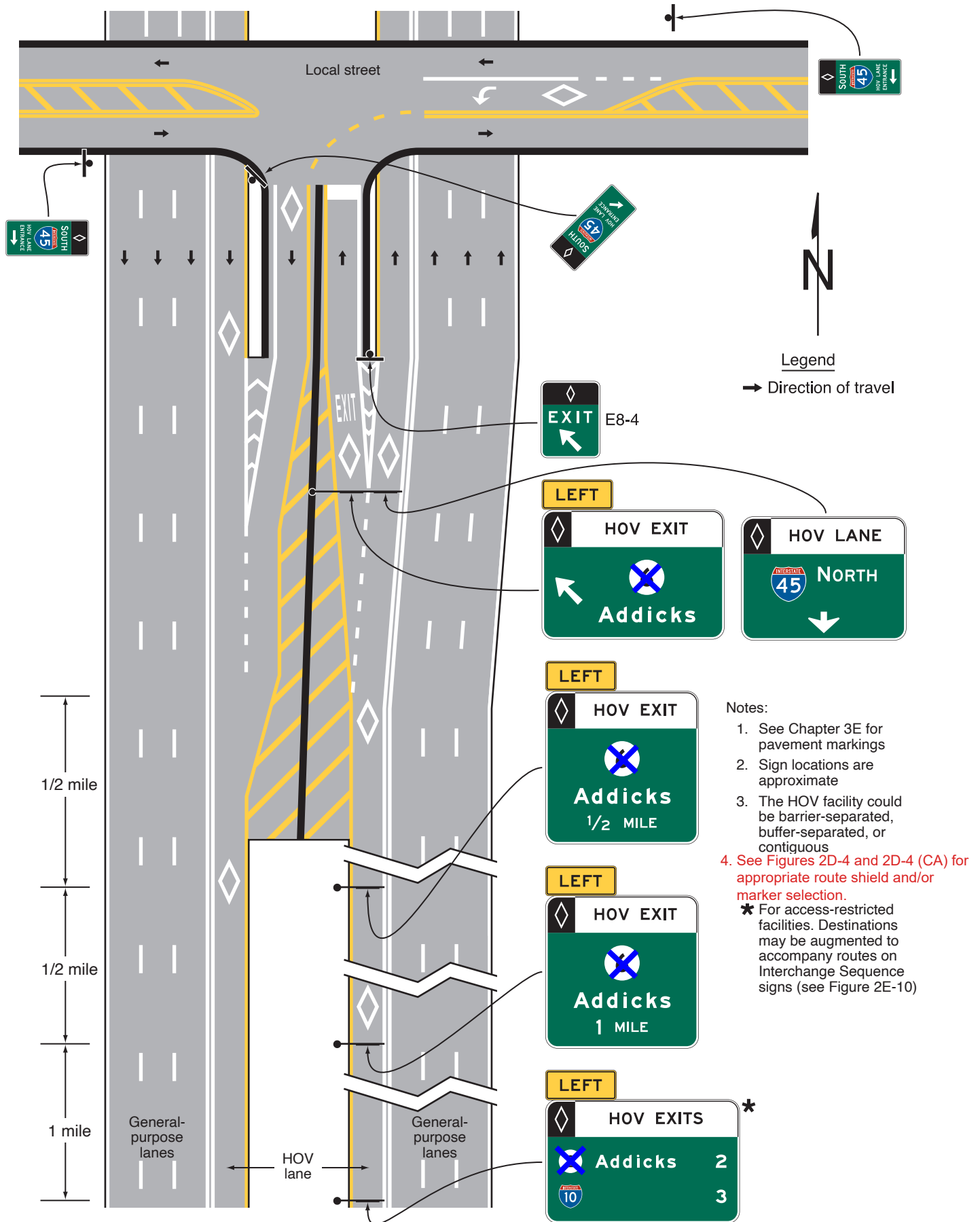
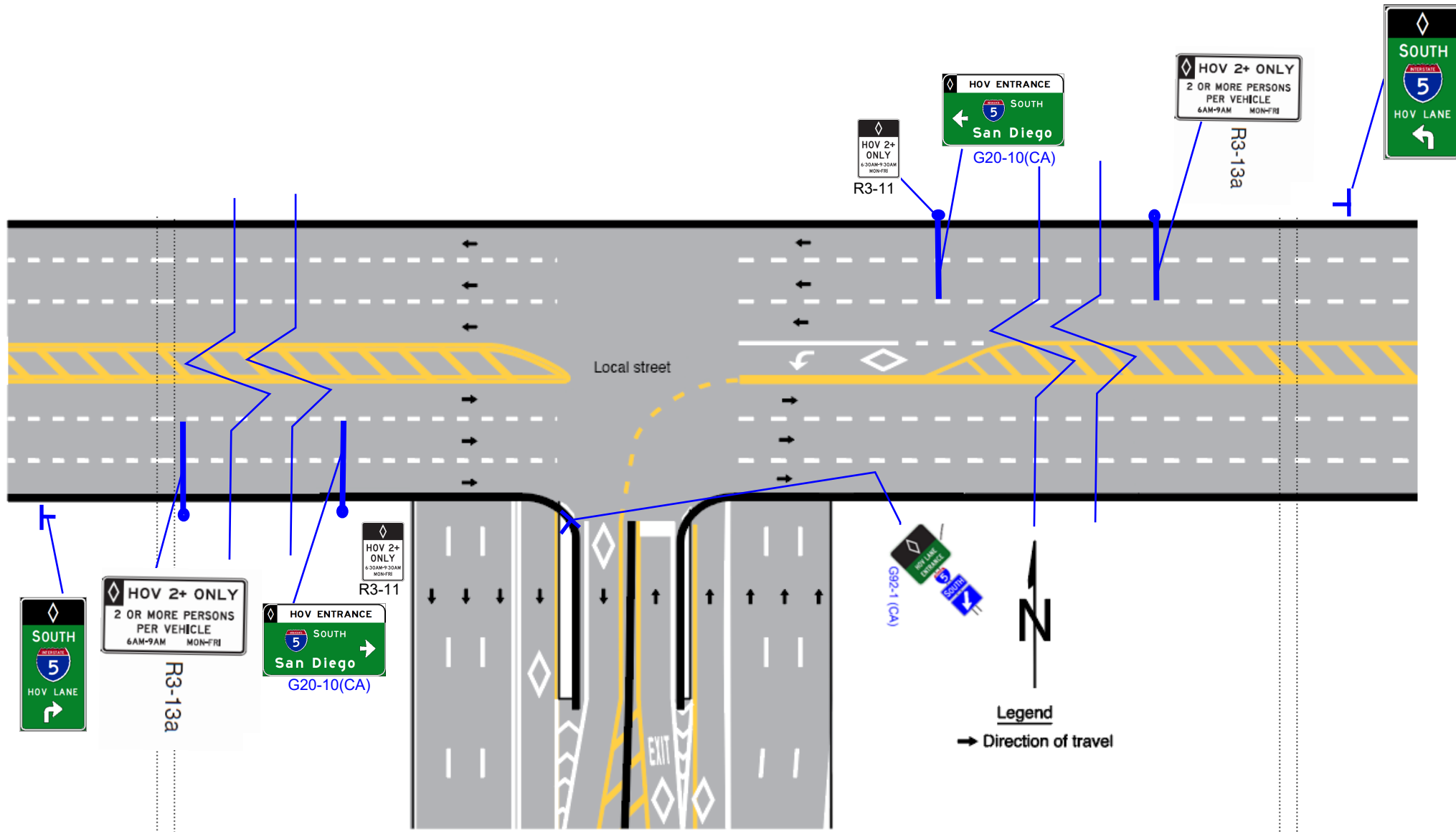


Figure 2G-16(CA). Example of Guide Signs For Direct HOV Lane Entrance



Notes:

1. See Chapter 3D for pavement markings
2. Sign locations are approximate

Figure 2G-17. Examples of Guide Signs for a Direct Access Ramp between HOV Lanes on Separate Freeways

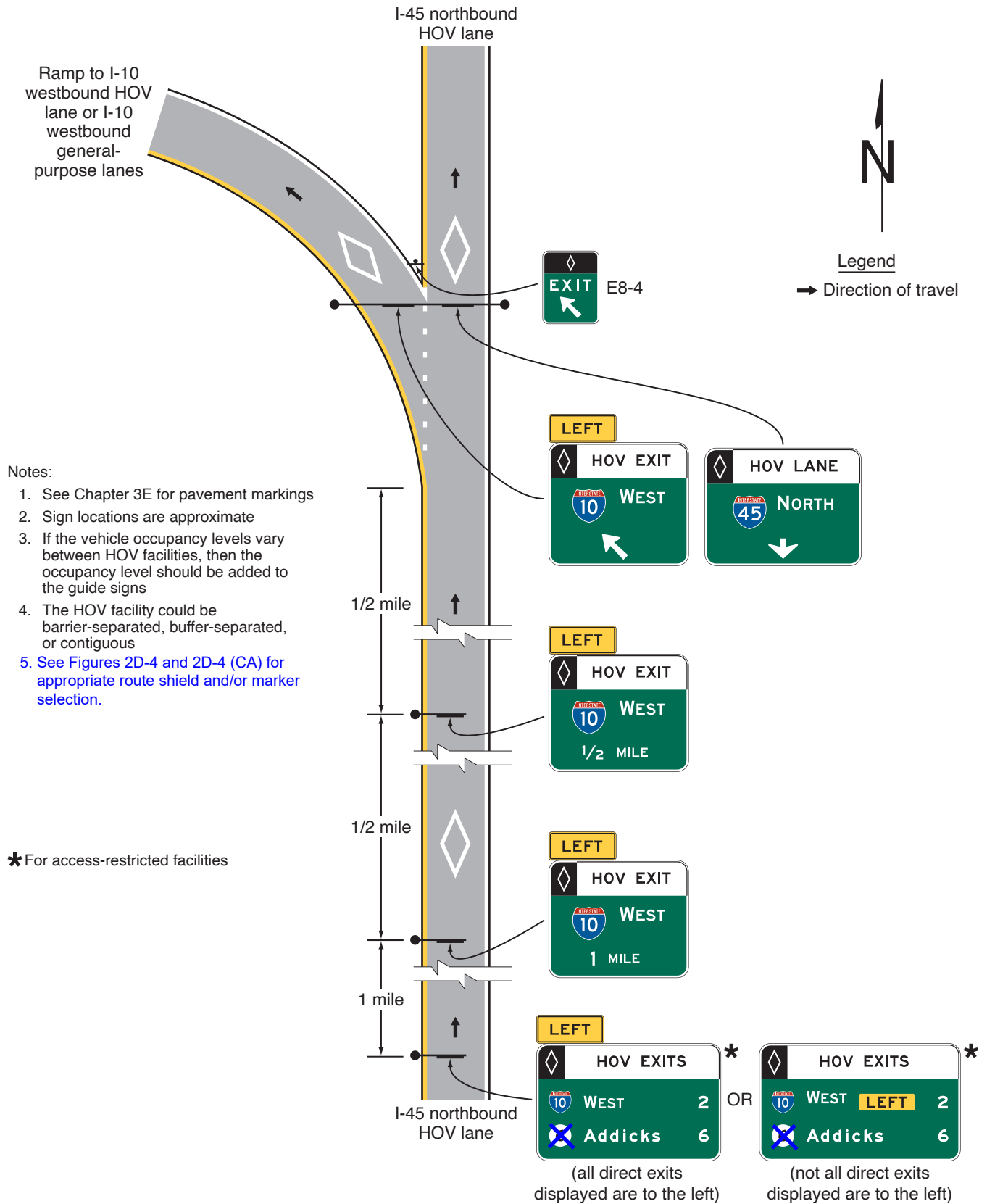
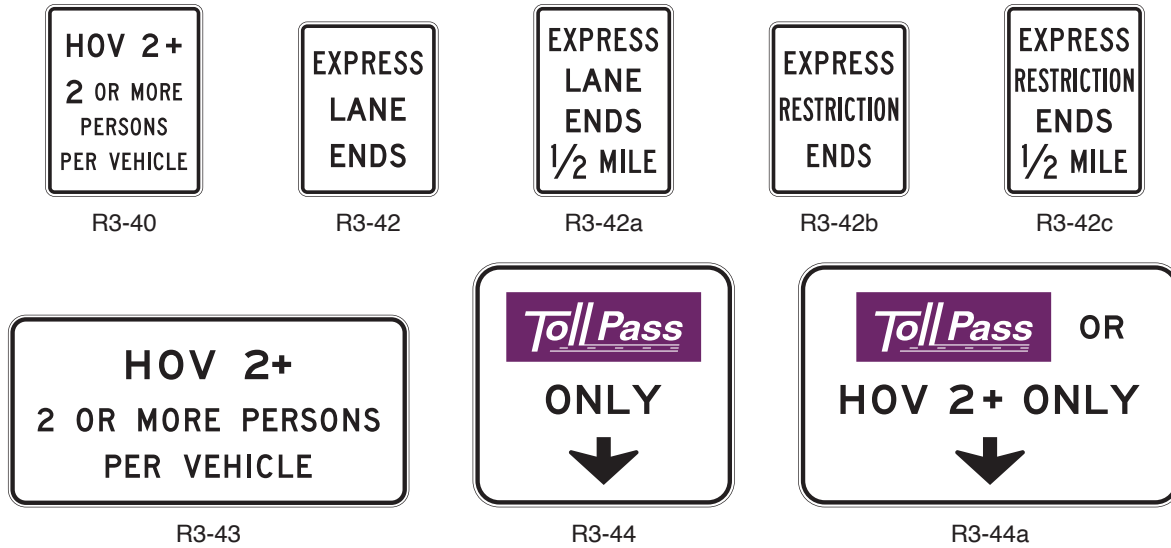
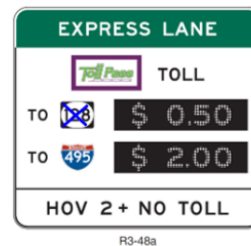
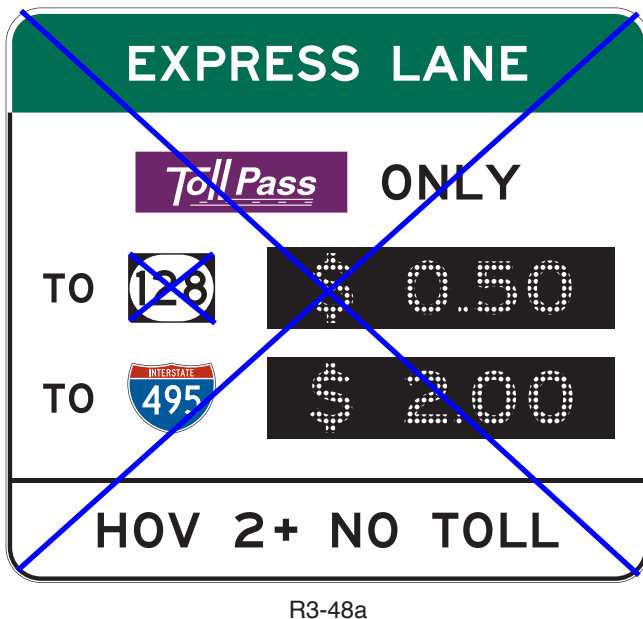
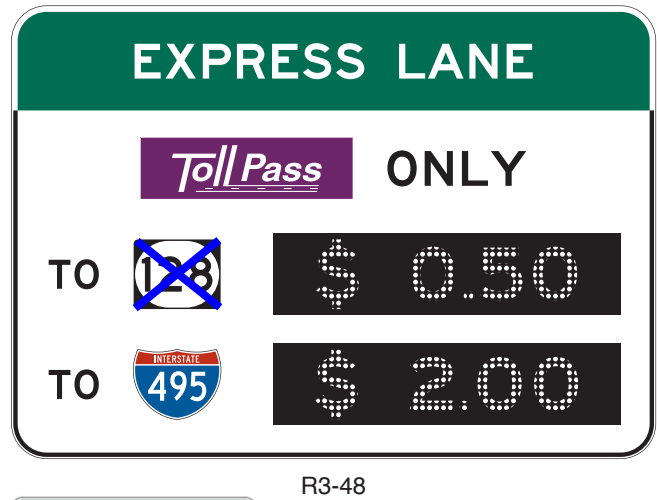
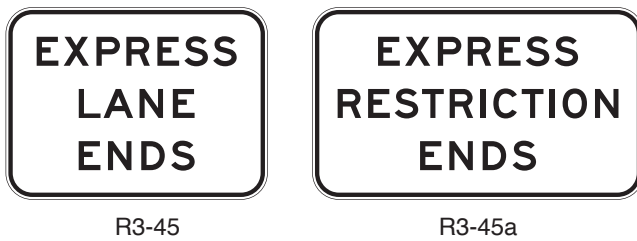


Figure 2G-18. Regulatory Signs for Managed Lanes



Notes:

1. The ETC pictograph shown is an example only. The pictograph for the toll facility's adopted ETC system shall be used.
2. Changeable message sign elements shall be used for the numerals displayed for the variable tolls.
3. See Figures 2D-4 and 2D-4 (CA) for appropriate route shield and/or marker selection.



Example of a regulatory sign with
changeable message elements

Figure 2G-19. Examples of Guide Signs for Entrances to Priced Managed Lanes

A – Entrance to a priced managed lane from a general-purpose lane



B – Direct entrance to a priced managed lane from a crossroad



Notes:

1. The ETC pictographs shown are examples only. The pictograph for the toll facility's adopted ETC system shall be used.
2. The examples shown are for facilities on which registration in a toll account program is required for toll payments.

Figure 2G-20. Example of Signing for the Entrance to an Access-Restricted Priced Managed Lane on which Registration in a Toll Account Program Is Not Required

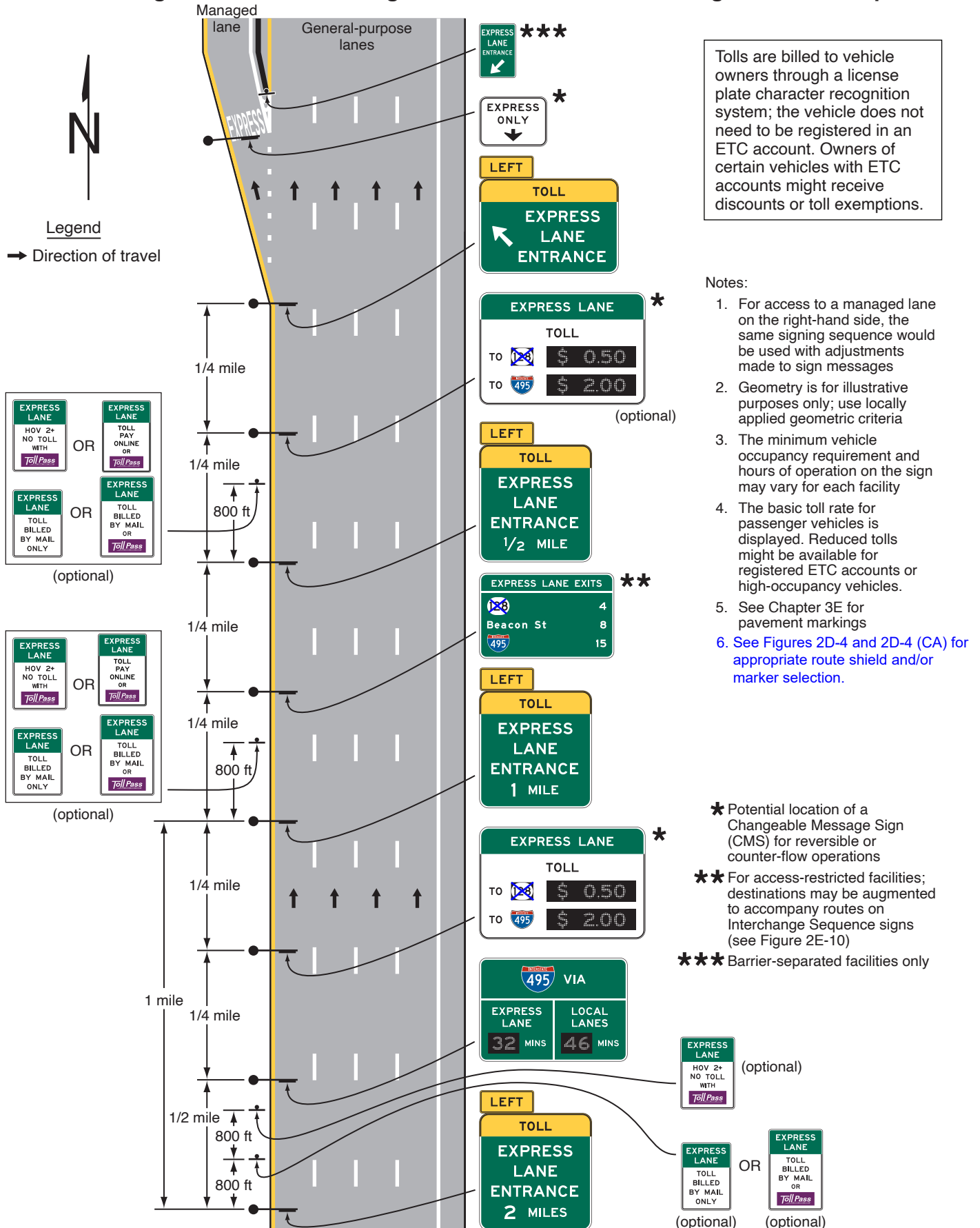


Figure 2G-21. Example of Signing for the Entrance to an Access-Restricted Priced Managed Lane – ETC Account Required

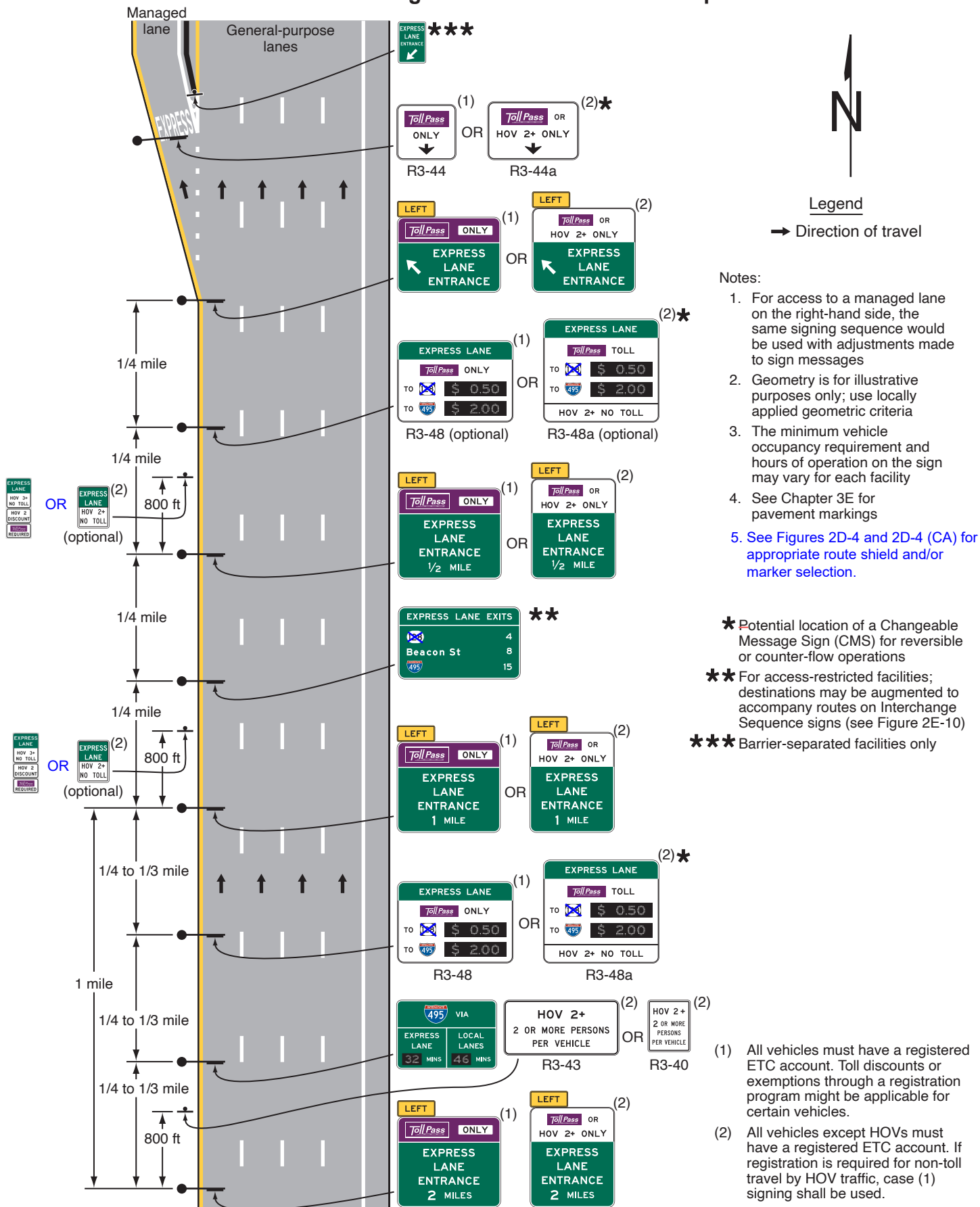
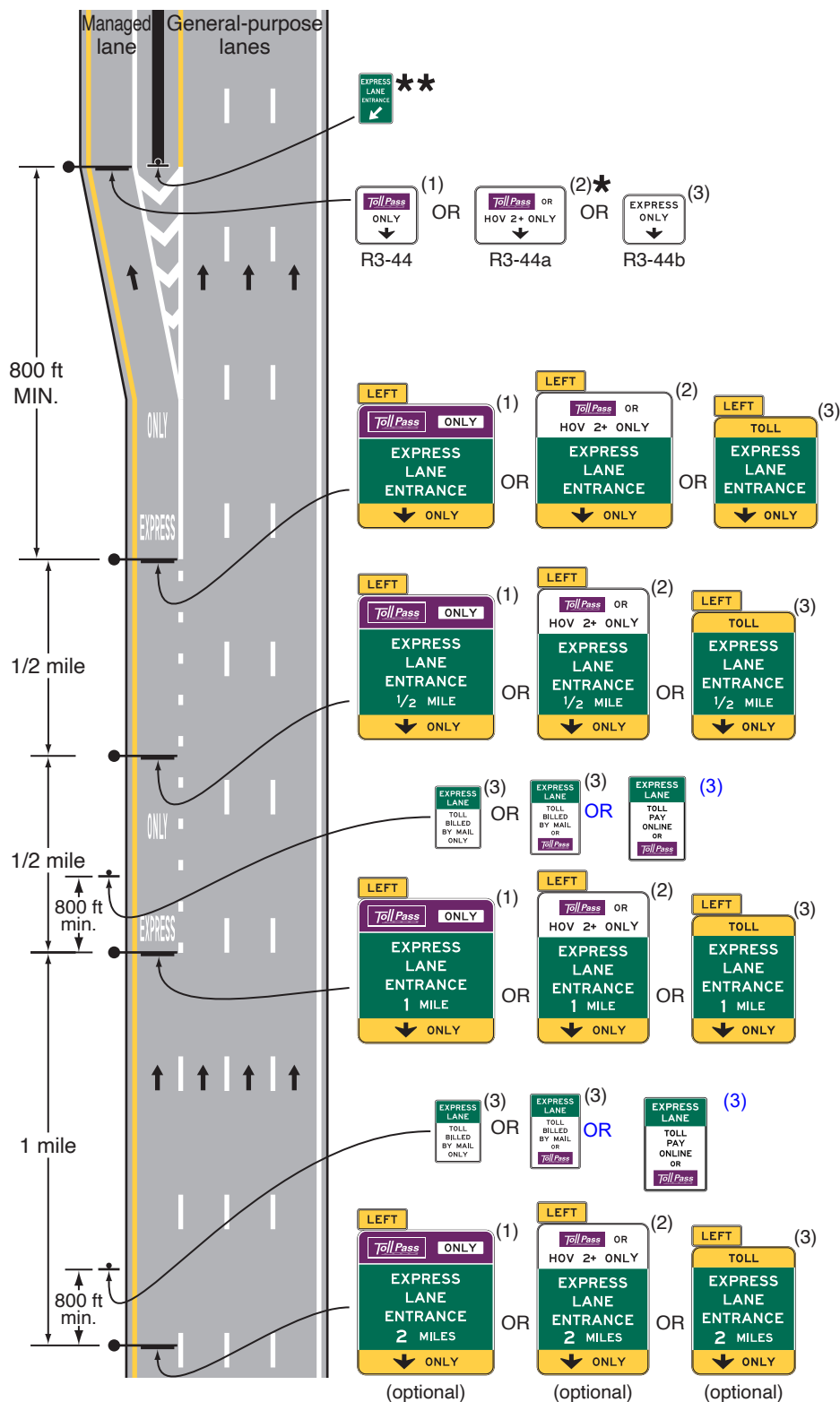


Figure 2G-22. Example of Signing for the Entrance to an Access-Restricted Priced Managed Lane Where a General-Purpose Lane Becomes the Managed Lane



- (1) All vehicles must have a registered ETC account. Toll discounts or exemptions through a registration program might be applicable for certain vehicles.
- (2) All vehicles except HOVs must have a registered ETC account. If registration is required for non-toll travel by HOV traffic, case (1) signing shall be used.
- (3) No registration in an ETC account is required. Tolls are billed by mail or online to vehicle owners through a license plate recognition system. ETC account payment might also be accepted by the system.

* Potential location of a Changeable Message Sign (CMS) for reversible or counter-flow operations

** Barrier-separated facilities only

Figure 2G-23. Example of Signing for an Intermediate Entry to a Barrier-Separated or Buffer-Separated Priced Managed Lane

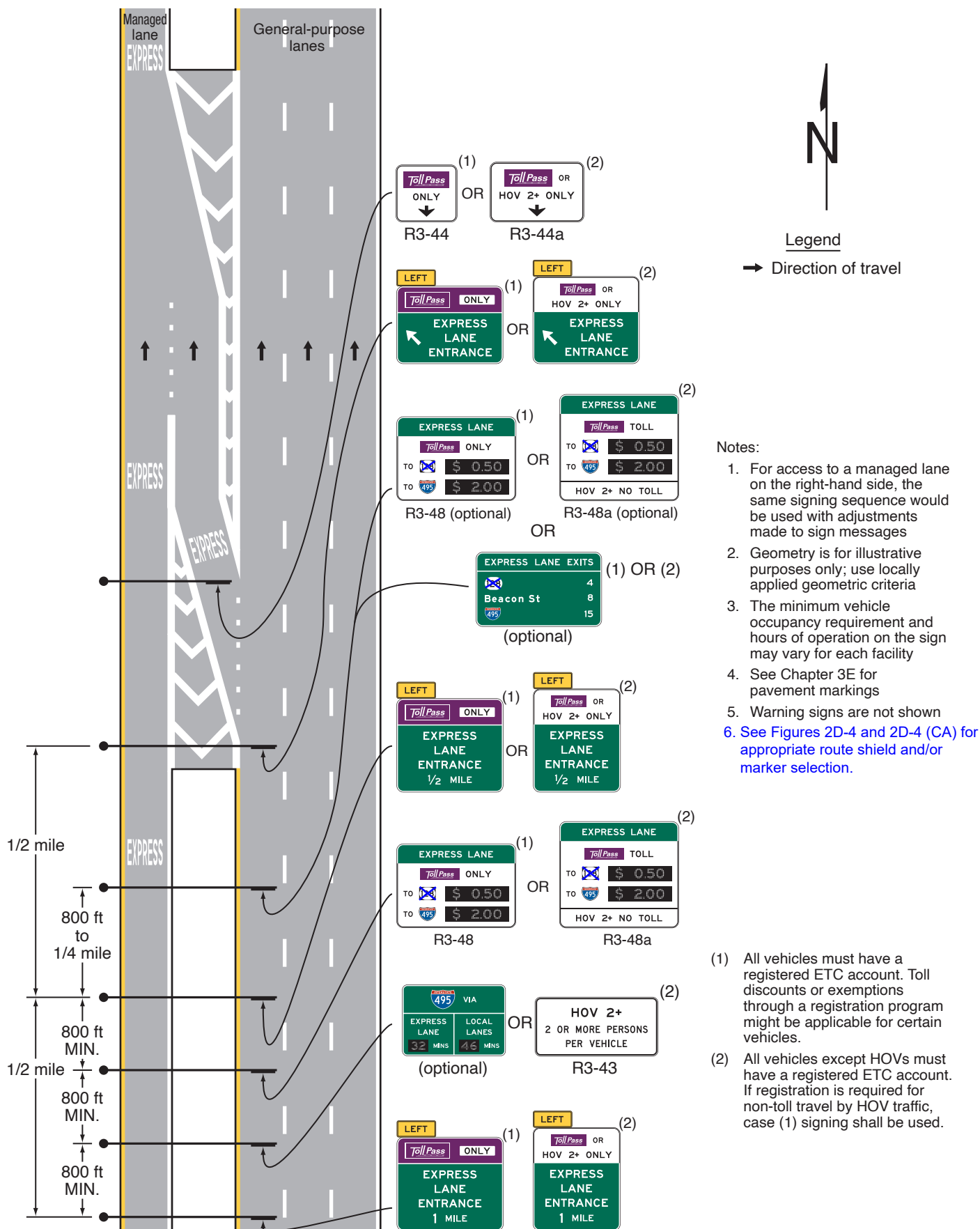
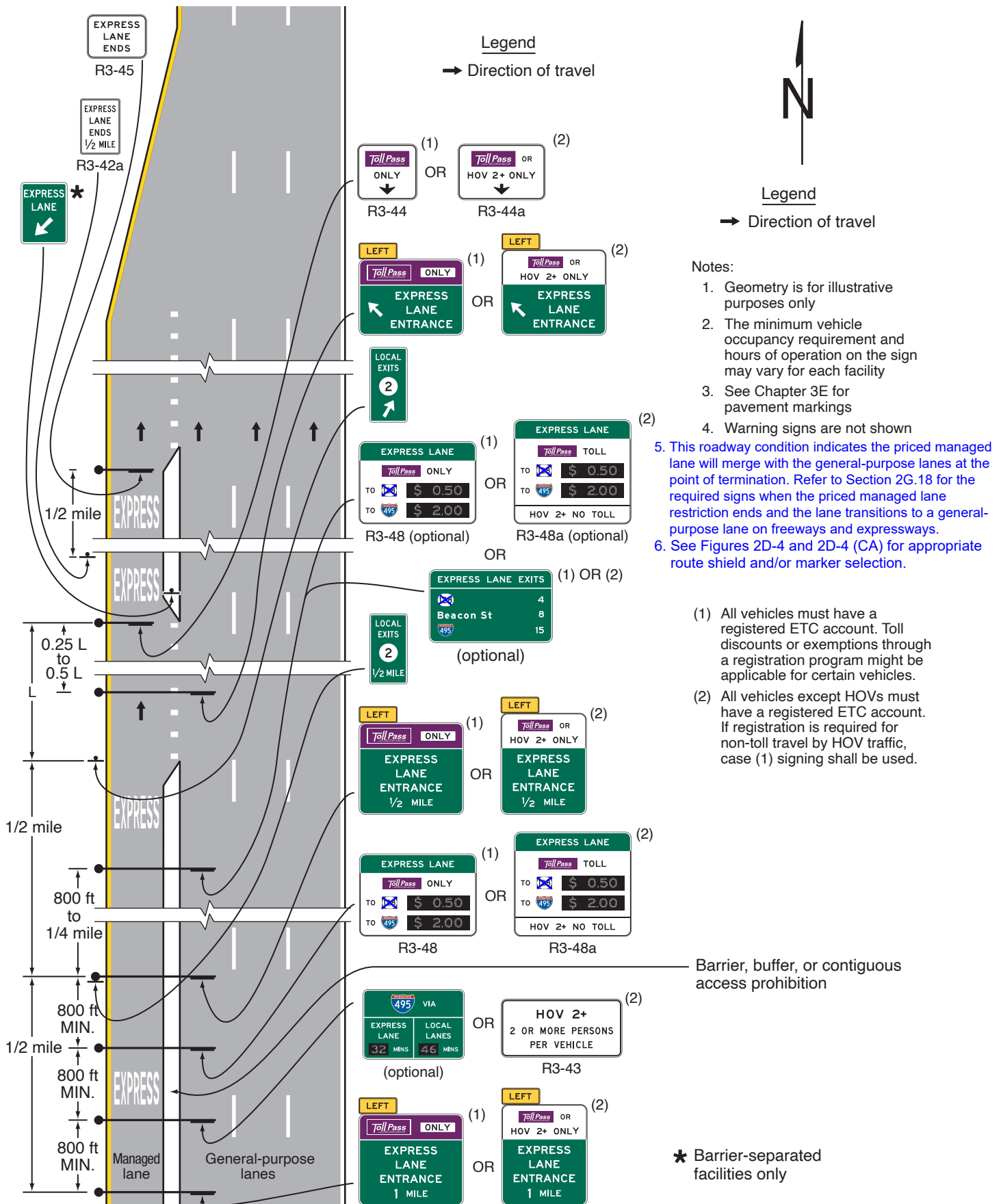


Figure 2G-24. Example of Signing for the Intermediate Entry to, Egress from, and End of Access-Restricted Priced Managed Lanes



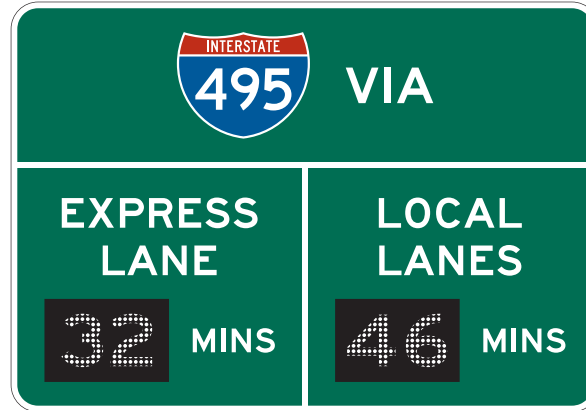
**Figure 2G-25. Example of an Exit Destinations Sign
for a Managed Lane**



Note:

1. The acronym "JCT" should be added adjacent to route shields, where applicable. See Figure 2E-50 for reference.

Figure 2G-26. Example of a Comparative Travel Time Information Sign for Preferential or Managed Lanes



Note: CMS elements shall be used for the numerals displayed for the estimated travel times.

Figure 2G-27. Examples of Guide Signs for an Intermediate Egress from a Barrier-Separated or Buffer-Separated Managed Lane

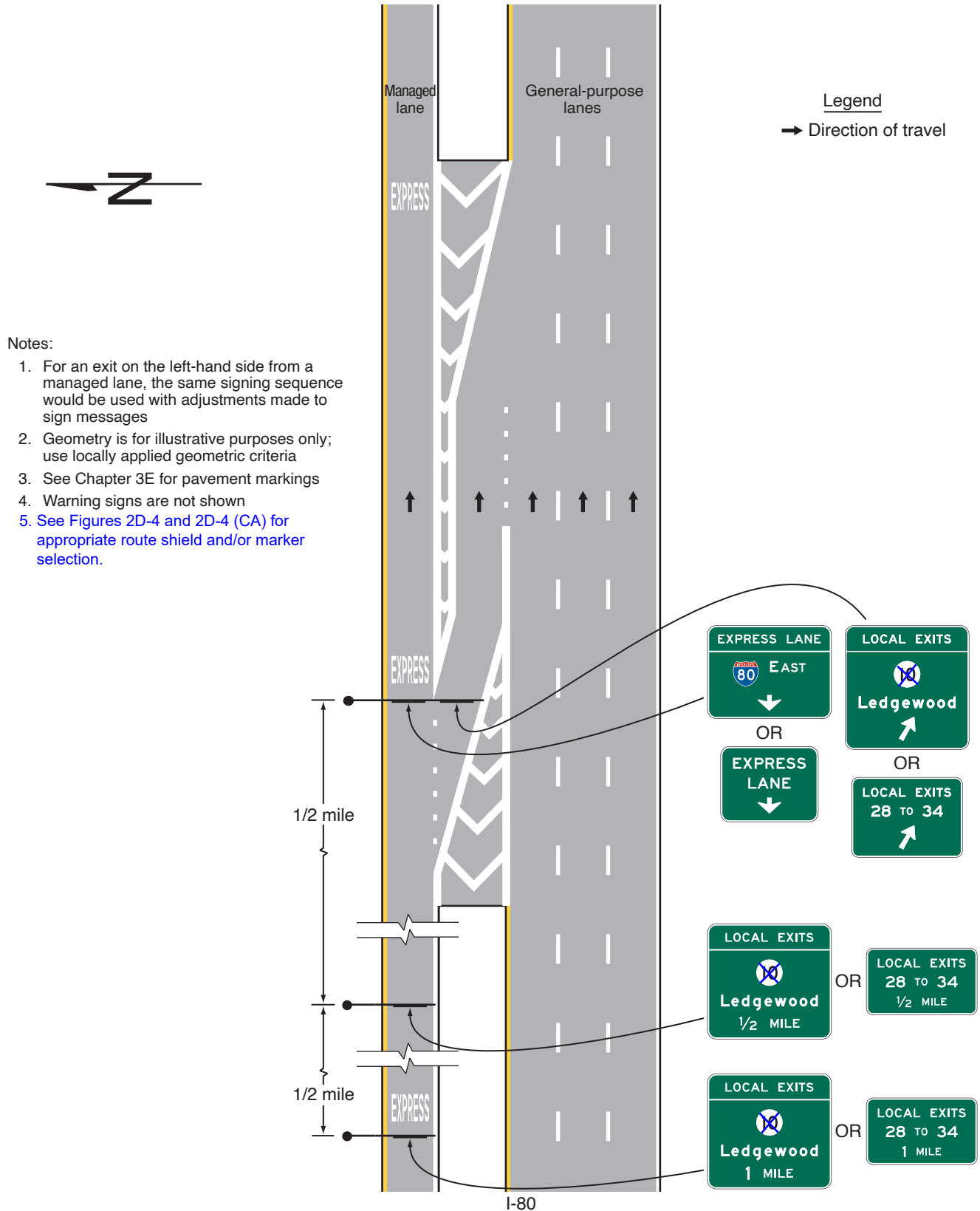


Figure 2G-28. Examples of Guide Signs for Direct Managed Lane Entrance and Exit Ramps

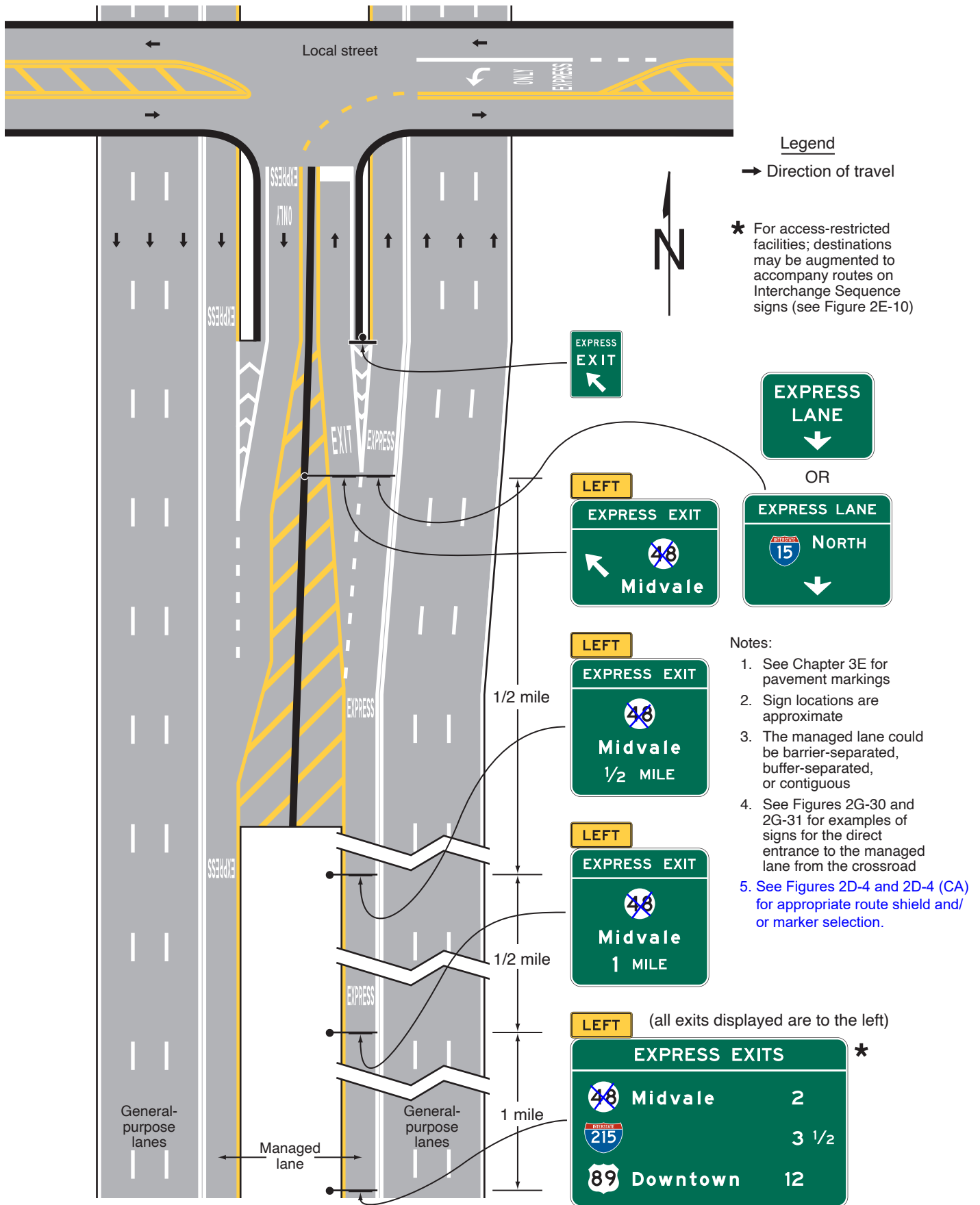


Figure 2G-29. Examples of Guide Signs for a Direct Access Ramp between Managed Lanes on Separate Freeways

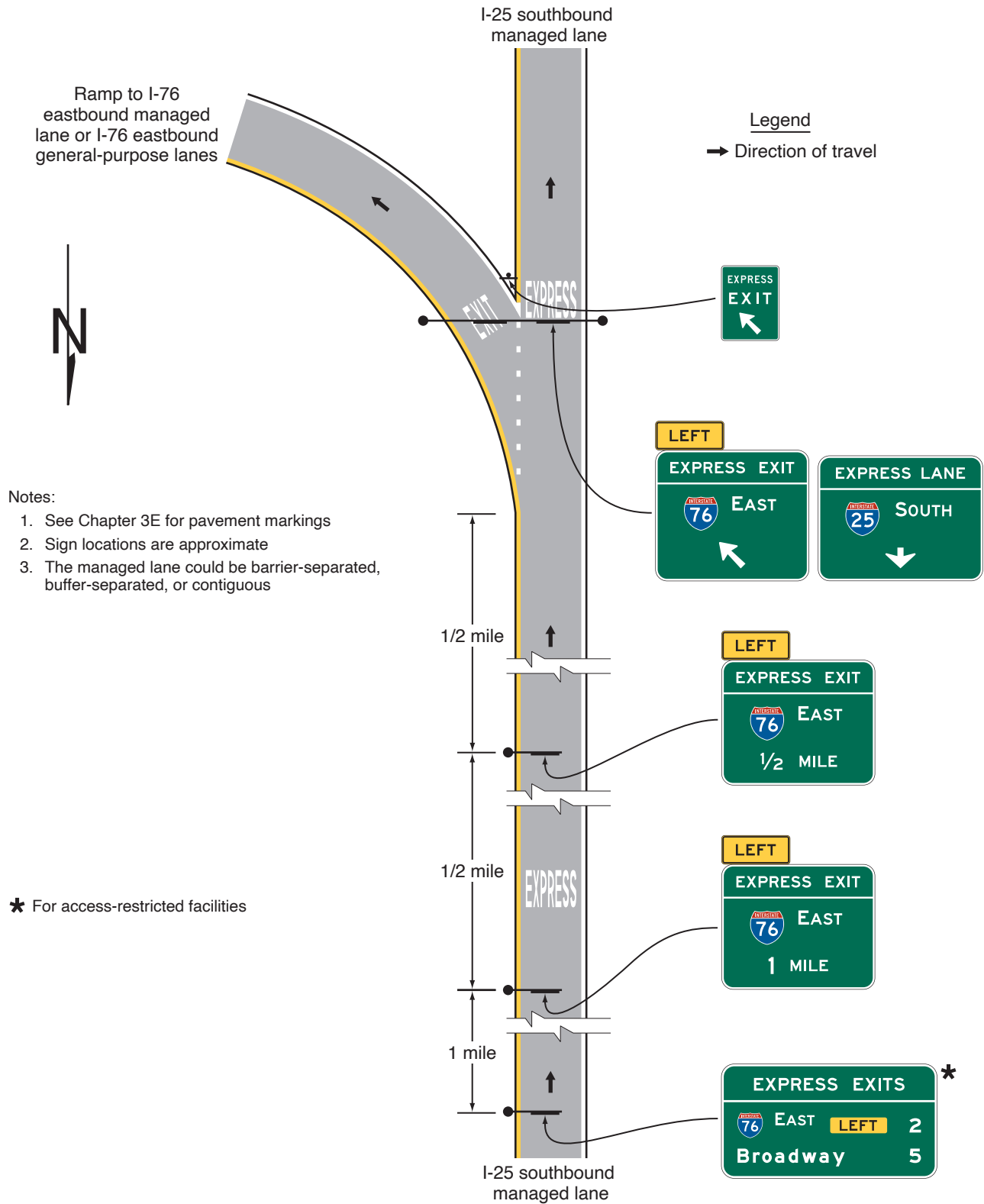


Figure 2G-30. Examples of Guide Signs for a Direct Entrance Ramp to a Priced Managed Lane and Trailblazing to a Nearby Entrance to the General-Purpose Lanes

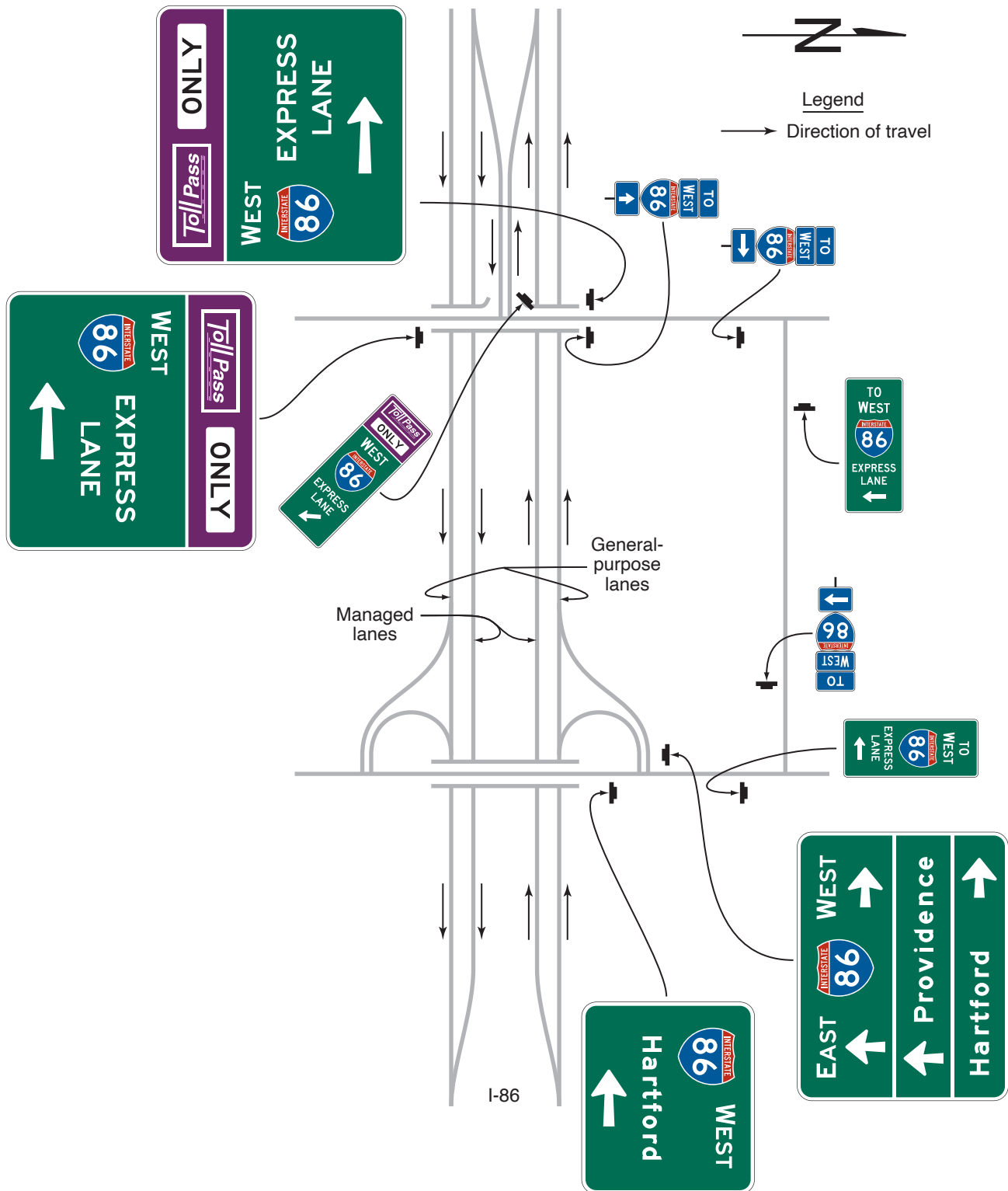


Figure 2G-31. Examples of Guide Signs for Separate Entrance Ramps to General-Purpose and Priced Managed Lanes from the Same Crossroad

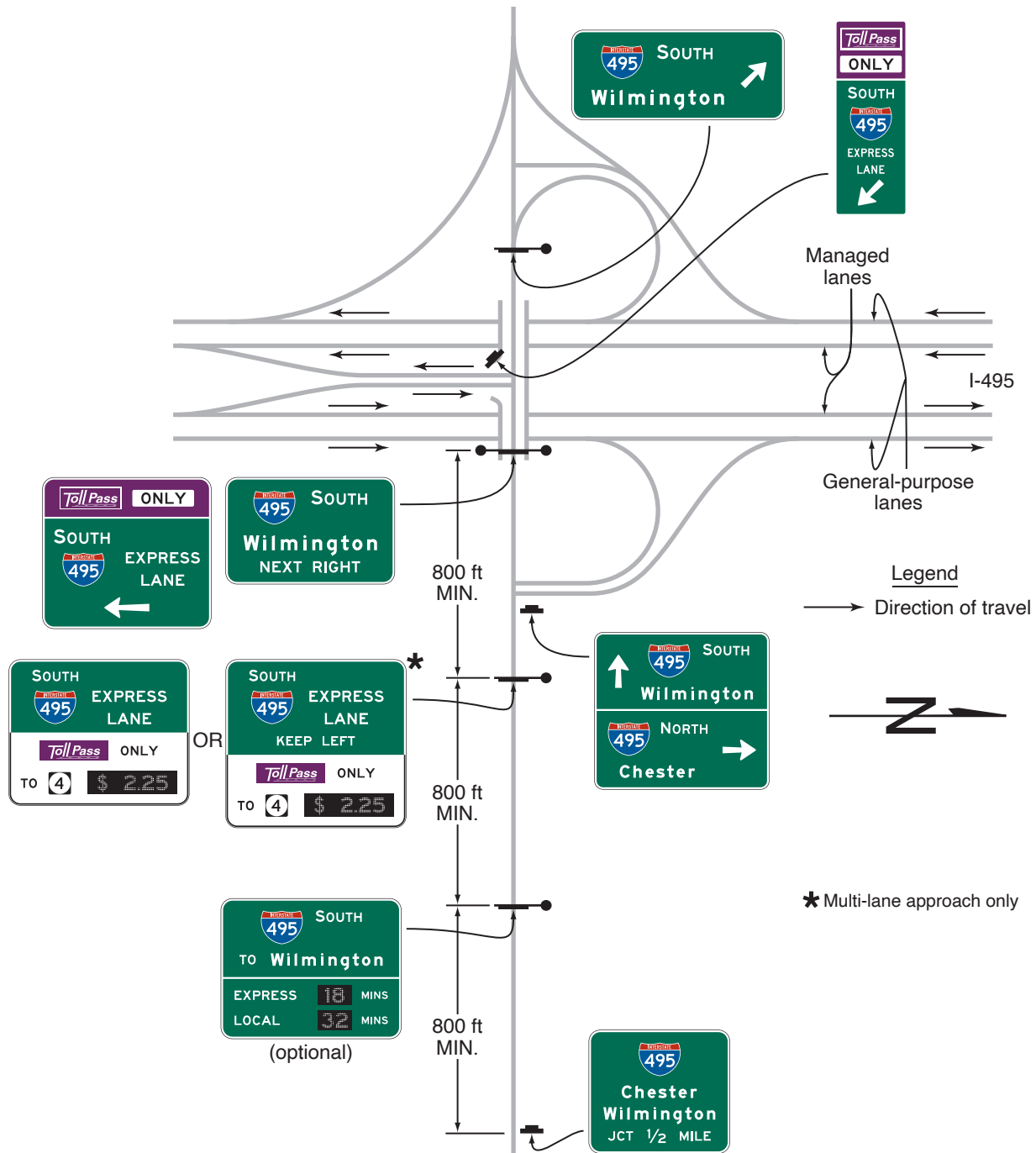
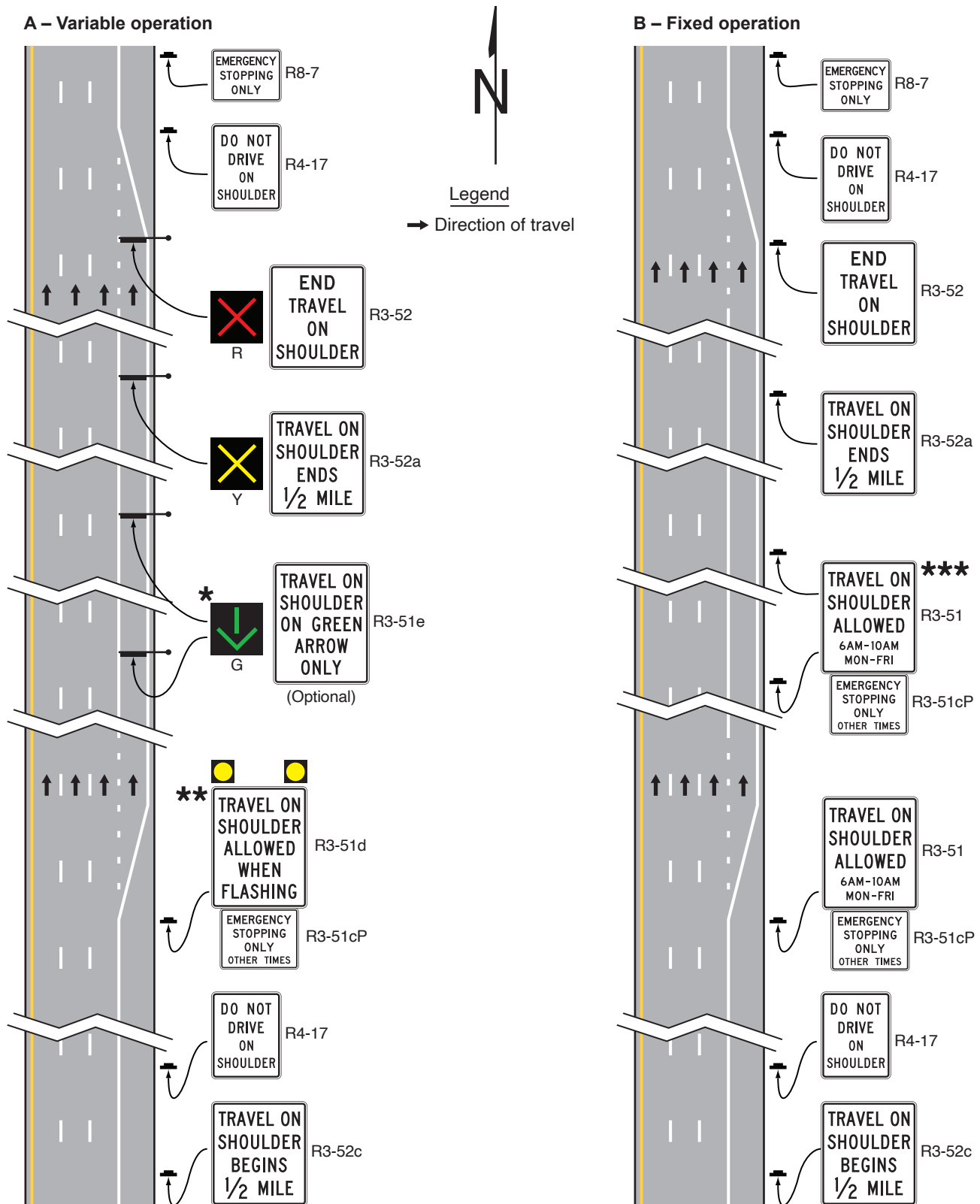


Figure 2G-32. Examples of Signing for Part-Time Travel on a Shoulder (Sheet 1 of 4)



Note: Consideration should be given to using blank-out signs in place of the R3-51 and R3-52 series conventional signs for part-time operations.

* Lane-use control signals (see Chapter 4T) located every 1/2 mile or less to reaffirm shoulder travel allowed (DOWNWARD GREEN ARROW) or prohibited (RED X).

** A post-mounted TRAVEL ON SHOULDER ALLOWED WHEN FLASHING sign (R3-51d) with beacons may be used lieu of lane-use control signals at the same intervals

*** The R3-51 sign is located every 1/2 mile or less to affirm when travel on shoulder is allowed for fixed period applications.

C – Signing at interchange ramps

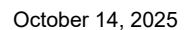


Figure 2G-32. Examples of Signing for Part-Time Travel on a Shoulder (Sheet 3 of 4)

D – Emergency turnout signing for travel on shoulder applications

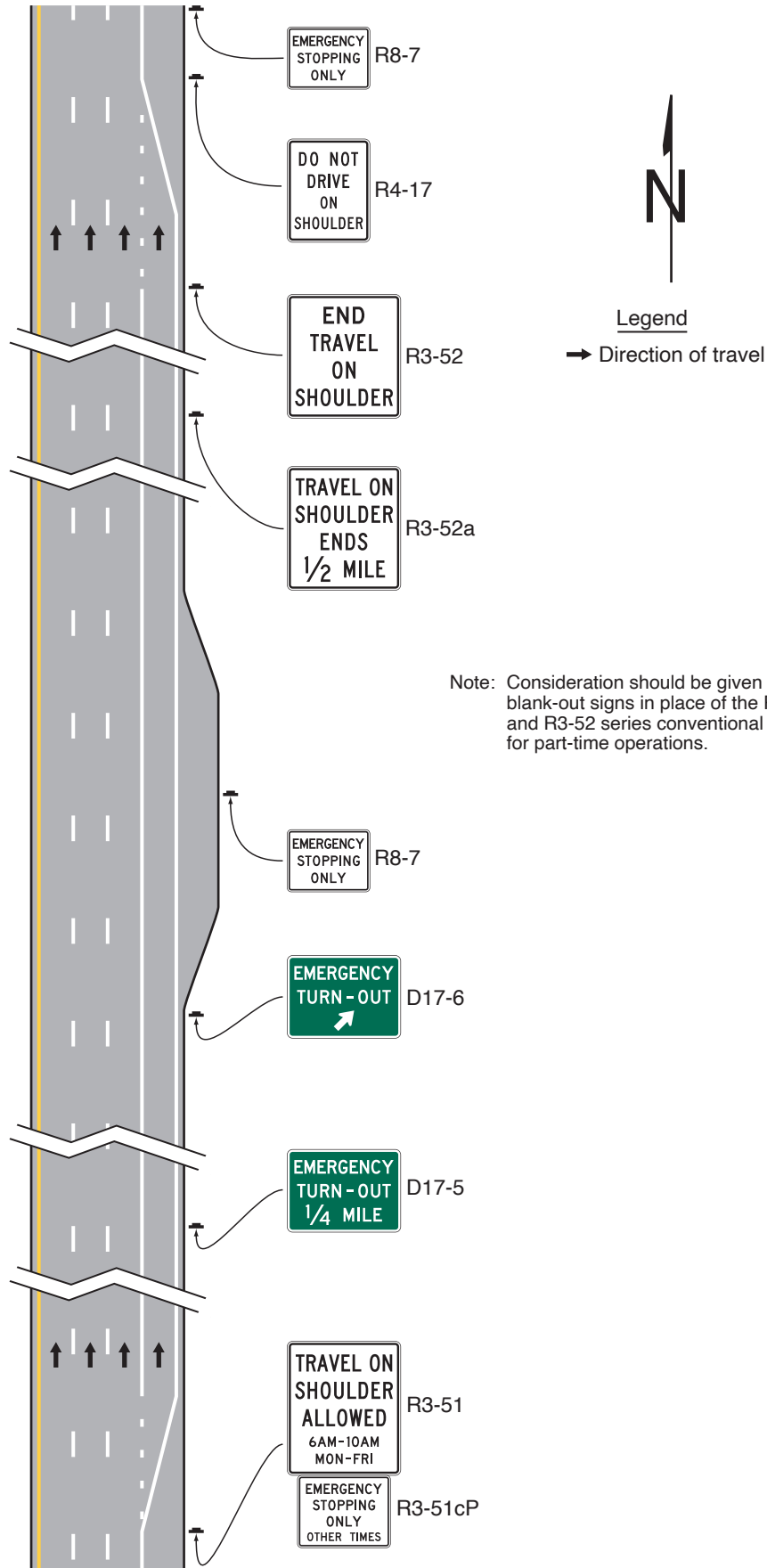


Figure 2G-32. Examples of Signing for Part-Time Travel on a Shoulder (Sheet 4 of 4)

E – Travel on shoulder ends at an interchange exit ramp

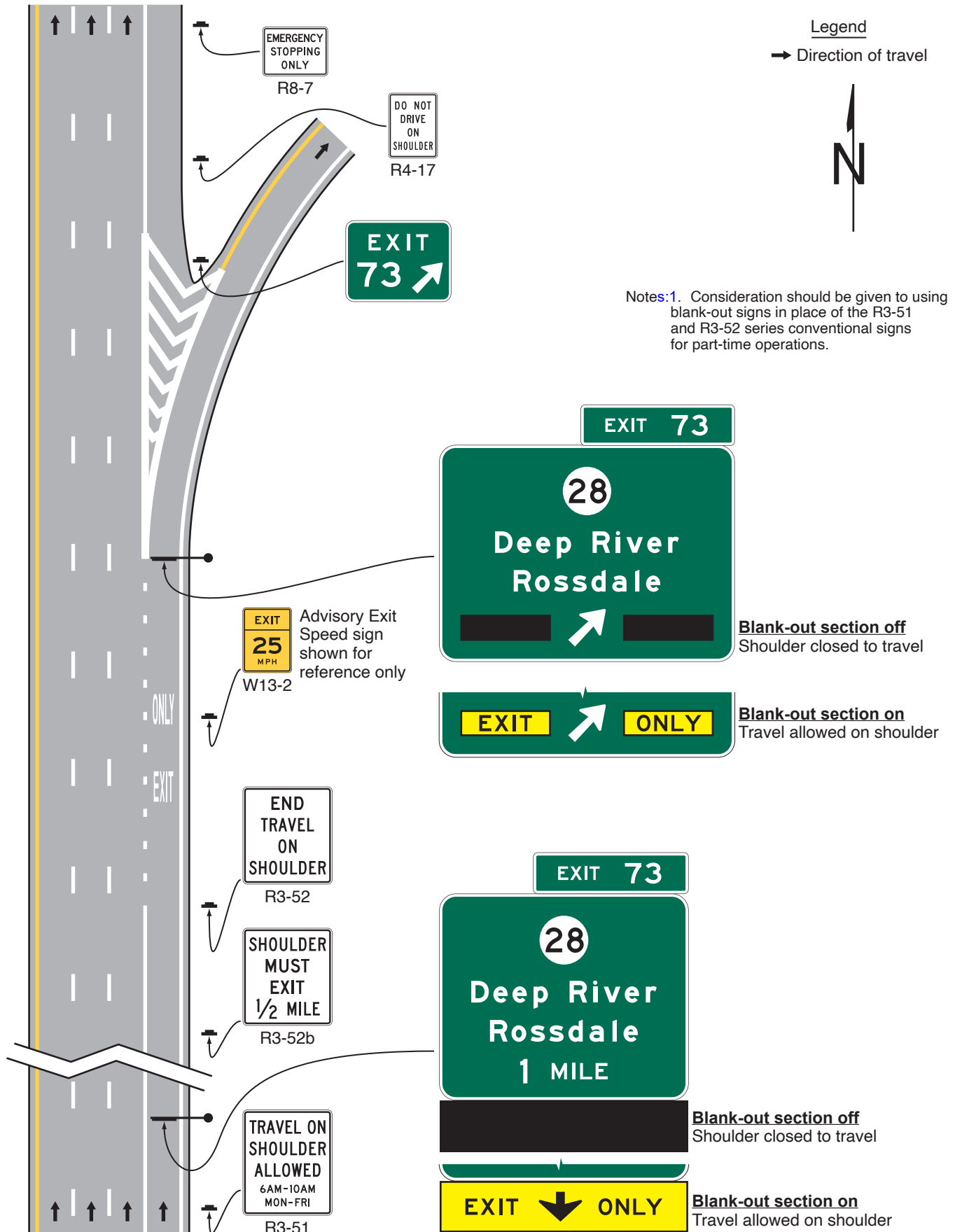
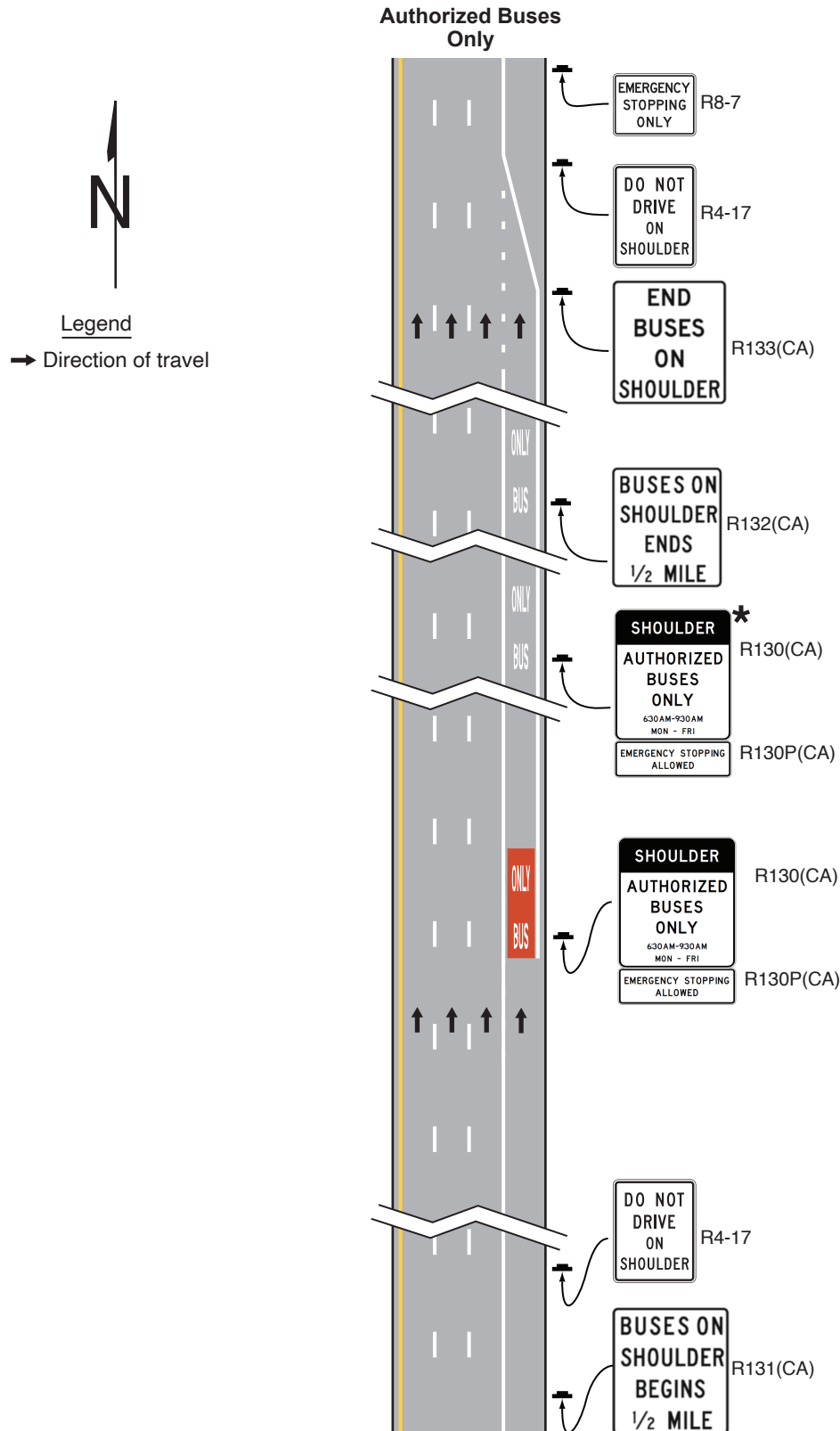


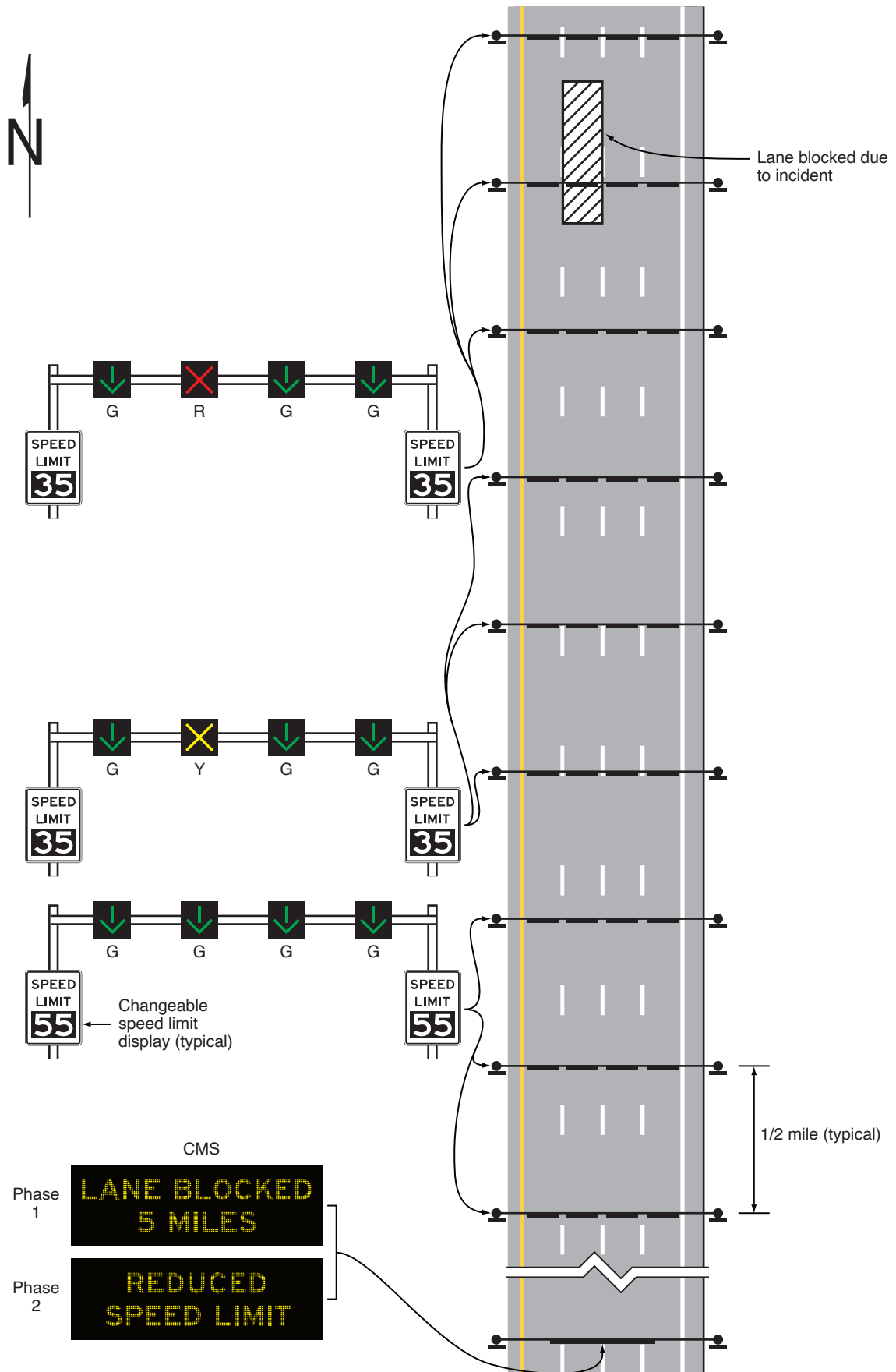
Figure 2G-32(CA). Examples of Signing for Part-Time Travel on a Shoulder



Note: Consideration should be given to using blank-out signs in place of the R130(CA), R131(CA), R132(CA) and R133(CA) conventional signs for part-time operations.

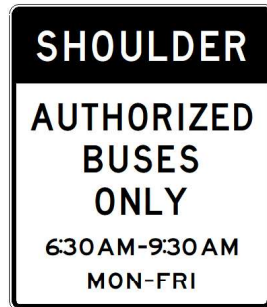
* The R130(CA) sign is located every 1/2 mile or less to affirm when travel on shoulder is allowed for fixed period applications.

Figure 2G-33. Example of Lane-Use Control Signals and Variable Speed Limit Signs for Active Lane Management During an Incident



**Figure 2G-101(CA). Signs and Plaques for
Part-Time Transit Bus on Shoulder**

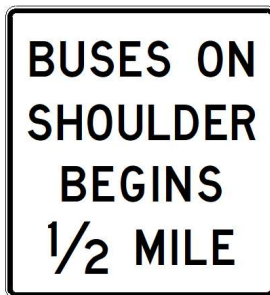
A - Regulatory Signs



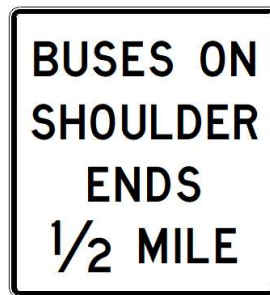
R130(CA)



R130P(CA)



R131(CA)



R132(CA)



R133(CA)

B - Warning Sign



W130(CA)