PART 2. SIGNS

CHAPTER 2G. PREFERENTIAL AND MANAGED LANE SIGNS

Section 2G.01	Scope
---------------	-------

- Section 2G.02 Sizes of Preferential and Managed Lane Signs
- Section 2G.03 Regulatory Signs for Preferential Lanes General
- Section 2G.04 Preferential Lane Vehicle Occupancy Definition Regulatory Signs (R3-10 Series and R3-13 Series)
- Section 2G.05 Preferential Lane Periods of Operation Regulatory Signs (R3-11 Series and R3-14 Series)
- Section 2G.06 Preferential Lane Advance Regulatory Signs (R3-12, R3-12e, R3-12f, R3-15, R3-15a, and R3-15d)
- Section 2G.07 Preferential Lane Ends Regulatory Signs (R3-12a, R3-12b, R3-12c, R3-12d, R3-12g, R3-12h, R3-15b, R3-15c, and R3-15e)
- Section 2G.08 Warning Signs on Median Barriers for Preferential Lanes
- Section 2G.09 High-Occupancy Vehicle (HOV) Plaque (W16-11P)
- Section 2G.10 Preferential Lane Guide Signs General
- Section 2G.11 Guide Signs for Initial Entry Points to Preferential Lanes
- Section 2G.12 Guide Signs for Intermediate Entry Points to Preferential Lanes
- Section 2G.13 Guide Signs for Egress from Preferential Lanes to General-Purpose Lanes
- Section 2G.14 Guide Signs for Direct Entrances to Preferential Lanes from Another Highway
- Section 2G.15 Guide Signs for Direct Exits from Preferential Lanes to Another Highway
- Section 2G.16 Signs for Priced Managed Lanes General
- Section 2G.17 Regulatory Signs for Priced Managed Lanes
- Section 2G.18 Guide Signs for Priced Managed Lanes

CHAPTER 2H. GENERAL INFORMATION SIGNS

- Section 2H.01 Sizes of General Information Signs
- Section 2H.02 General Information Signs (I Series)
- Section 2H.03 Traffic Signal Speed Sign (I1-1)
- Section 2H.04 Miscellaneous Information Signs
- Section 2H.05 Reference Location Signs (D10-1 through D10-3) and Intermediate Reference Location Signs (D10-1a through D10-3a)
- Section 2H.06 Enhanced Reference Location Signs (D10-4, D10-5)
- Section 2H.07 Auto Tour Route Signs
- Section 2H.08 Acknowledgment Signs

Section 2G.01 Scope

Support:

- Preferential lanes are lanes designated for special traffic uses such as high-occupancy vehicles (HOVs), light rail, buses, taxis, or bicycles. Preferential lane treatments might be as simple as restricting a turning lane to a certain class of vehicles during peak periods, or as sophisticated as providing a separate roadway system within a highway corridor for certain vehicles.
- Preferential lanes might be barrier-separated (on a separate alignment or physically separated from the other travel lanes by a barrier or median), buffer-separated (separated from the adjacent general-purpose lanes only by a narrow buffer area created with longitudinal pavement markings), or contiguous (separated from the adjacent general-purpose lanes only by a lane line). Preferential lanes might allow continuous access with the adjacent general-purpose lanes or restrict access only to designated locations. Preferential lanes might be operated in a constant direction or operated as reversible lanes. Some reversible preferential lanes on a divided highway might be operated counter-flow to the direction of traffic on the immediately adjacent general-purpose lanes.
- ³ Preferential lanes might be operated on a 24-hour basis, for extended periods of the day, during peak travel periods only, during special events, or during other activities.
- ⁴ Open-road tolling lanes and toll plaza lanes that segregate traffic based on payment method are not considered preferential lanes. Chapter 2F contains information regarding signing of open-road tolling lanes and toll plaza lanes.
- 5 Managed lanes typically restrict access with the adjacent general-purpose lanes to designated locations only.
- ⁶ Under certain operational strategies, such as the occupancy requirement of an HOV lane changing in response to actual congestion levels, a managed lane is a special type of preferential lane (see Sections 2G.03 through 2G.07).
- 7 A managed lane operated on a real-time basis in response to changing conditions might be operated as an HOV lane for a period of time as needed to manage congestion levels.
- 8 Sections 2G.16 through 2G.18 contain additional information regarding signs for managed lanes that use tolling or pricing as a management strategy.
- 9 Section 9B.04 contains information regarding Preferential Lane signs for bike lanes.

Section 2G.02 Sizes of Preferential and Managed Lane Signs

Standard:

Except as provided in Section 2A.11, the sizes of preferential and managed lane signs that have standardized designs shall be as shown in Table 2G-1.

Support:

- 2 Section 2A.11 contains information regarding the applicability of the various columns in Table 2G-1.
- Option:
- ³ Signs larger than those shown in Table 2G-1 may be used (see Section 2A.11).

Section 2G.03 <u>Regulatory Signs for Preferential Lanes – General</u> Standard:

- When a preferential lane is established, the Preferential Lane regulatory signs (see Figure 2G-1) and pavement markings (see Chapter 3D) for these lanes shall be used to advise road users. Support:
- 2 Preferential Lane (R3-10 series through R3-15 series) regulatory signs consist of several different general types of regulatory signs as follows (see Figure 2G-1):
 - A. Vehicle Occupancy Definition signs define the vehicle occupancy requirements applicable to an HOV lane (such as "2 OR MORE PERSONS PER VEHICLE") or types of vehicles not meeting the minimum occupancy requirement (such as motorcycles or ILEVs) that are allowed to use an HOV lane (see Section 2G.04).
 - B. Periods of Operation signs notify road users of the days and hours during which the preferential restrictions are in effect (see Section 2G.05).
 - C. Preferential Lane Advance signs notify road users that a preferential lane restriction begins ahead (see Section 2G.06).

D. Preferential Lane Ends signs notify users of the termination point of the preferential lane restrictions (see Section 2G.07).

	Table 2G-1.	Managed and Preferentia	I Lanes Sign and Place	que Minimum Sizes
--	-------------	-------------------------	------------------------	-------------------

Sign of Plaque Designation Social Single Lane Multi-Lane Expressively Preevery Oversized Opcommony Definition (post-mounted) R3-10.10a 2G.04 30 x 42 30 x 42 36 x 60 78 x 96 78 x 96 78 x 96 Opcommon post-mounted) R3-11 series 2G.05 30 x 42 30 x 42 36 x 60 78 x 96 78 x 38 78 x 38 Preferential Lane Periods of Ends (post-mounted) R3-12 series 2G.06 30 x 42 30 x 42 36 x 60 48 x 84 48 x 84 Preferential Lane Vehicle R3-13,13a 2G.06 66 x 36 66 x 36 90 x 72 144 x 108 144 x 78 Vowerhead) R3-15 2G.06 90 x 60 90 x 60 90 x 50 102 x 54 102 x 60 102 x 54 102 x 60 102 x 60 102 x 54 102 x 60	Sign Conventional Road							
Preferential Lare Vehicle R3-10,10a 2G.04 30 x 42 30 x 42 36 x 60 78 x 96 78 x 96 Docupancy Definition R3-11 series 2G.05 30 x 42 30 x 42 36 x 60 78 x 96 78 x 76	Sign or Plaque	Sign Designation	Section			Expressway	Freeway	Oversized
Occupancy Definition R3-10,10a 2G.04 30 x 42 30 x 42 36 x 60 78 x 96 78 x 96 Preferential Lane Periods of Operation (post-mounted) R3-11 series 2G.05 30 x 42 30 x 42 36 x 60 78 x 96 78 x 96 Preferential Lane Vehicle R3-12 series 2G.06 30 x 42 30 x 42 36 x 60 48 x 84 48 x 84 Preferential Lane Vehicle R3-12 series 2G.06 30 x 42 30 x 42 36 x 60 48 x 84 144 x 78 Vorteed R3-13,13a 2G.06 72 x 60 95 x 72 144 x 108 144 x 78 Operation (worthead) R3-14 2G.06 72 x 60 90 x 60 108 x 72 116 x 102 168 x 102 Operation (worthead) R3-15a 2G.06 66 x 36 66 x 36 64 x 48 102 x 60 102 x 60 </td <td></td> <td>Designation</td> <td></td> <td>Single Lane</td> <td>wuiti-Lane</td> <td></td> <td></td> <td></td>		Designation		Single Lane	wuiti-Lane			
Operation (post-mounted) NA-11 isenes 20.05 30 X 42 30 X 40 78 X 36 78 X 36 78 X 36 Preferential Lane Ahead or Ends (post-mounted) R3-12 series 2G.06 30 X 42 30 X 42 36 X 60 48 X 84 48 X 84 Preferential Lane Vehicle Occupancy Definition R3-13 a 2G.04 66 K 36 66 K 36 84 X 48 144 X 78 144 X 78 Preferential Lane Vehicle Operation (werhead) R3-14 2G.05 72 X 60 72 X 60 96 K 72 144 X 108 144 X 78 Preferential Lane Periods of Operation (werhead) R3-151 2G.06 66 X 36 66 K 36 84 X 48 102 X 60 102 X 60 Preferential Lane Ahead or Preferential Lane Ahead or Ends (overhead) R3-155,150 2G.07 42 X 36 64 X 38 72 X 60	Occupancy Definition (post-mounted)	R3-10,10a	2G.04	30 x 42	30 x 42	36 x 60	78 x 96	78 x 96
Motorycles Allowed (plague) R3-11P 2G.03 30 x 15 30 x 15 36 x 18 78 x 36 78 x 36 Preferential Lane Ahead of Cocupancy Definition (overhead) R3-12 series 2G.06 30 x 42 30 x 42 36 x 60 48 x 84 48 x 84 Preferential Lane Vehicle Ocupancy Definition Operation (overhead) R3-13 2G.04 66 x 36 66 x 36 84 x 48 144 x 78 144 x 108 HOV Lane Periods of Operation (overhead) R3-14c 2G.05 90 x 60 90 x 60 90 x 60 108 x 72 156 x 102 168 x 102 HOV Lane Ahead (overhead) R3-15 2G.06 66 x 36 66 x 36 84 x 48 102 x 60 102 x 60 HOV Lane Ahead (overhead) R3-15a 2G.06 66 x 36 66 x 36 64 x 48 102 x 60 102 x 60 HOV Lane Ends (overhead) R3-15a 2G.06 78 x 42 78 x 42 102 x 50 102 x 60 102 x 60 </td <td></td> <td>R3-11 series</td> <td>2G.05</td> <td>30 x 42</td> <td>30 x 42</td> <td>36 x 60</td> <td>78 x 96</td> <td>78 x 96</td>		R3-11 series	2G.05	30 x 42	30 x 42	36 x 60	78 x 96	78 x 96
Preferential Lane Anead or Ends (opermental Lane Vehicle Occupancy Definition (werhead) R3-12 series R3-13,13a 2G.06 30 x 42 30 x 42 36 x 60 48 x 84 48 x 84 Preferential Lane Vehicle Occupancy Definition (werhead) R3-13,13a 2G.04 66 x 36 66 x 36 84 x 48 144 x 78 144 x 78 Preferential Lane Vehicle Operation (werhead) R3-14c 2G.05 72 x 60 72 x 60 96 x 72 144 x 108 144 x 108 Preferential Lane Periods of Operation (werhead) R3-15 2G.06 66 x 36 66 x 36 84 x 48 102 x 80 102 x 60 HOV Lane Ende (overhead) R3-155, 15c 2G.07 66 x 36 66 x 36 84 x 48 102 x 60 102 x 60 Preferential Lane Ahead or Ends (overhead) R3-161,15c 2G.07 42 x 36 64 x 48 102 x 60 102 x 60 Priced Managed Lane Vehicle Operancy Definition (post-mounted) R3-42,42b 2G.17 - - 54 x 66 54 x 66 66 x 78 Priced Managed Lane Vehicle Occupancy Definition R3-42,42b 2G.17 - - 48 x 64 48 x 64		R3-11P	2G.03	30 x 15	30 x 15	36 x 18	78 x 36	78 x 36
Occupancy Definition R3-13,13a 2G.04 66 × 36 66 × 36 84 × 48 144 × 78 144 × 78 HOV Lane Periods of Operation (overhead) R3- 2G.05 72 × 60 72 × 60 96 × 72 144 × 108 144 × 78 Preferential Lane Periods of Operation (overhead) R3-14c 2G.05 90 × 60 90 × 60 108 × 72 156 × 102 168 × 102 HOV Lane Abead (overhead) R3-15 2G.06 66 × 36 66 × 36 84 × 48 102 × 60 102 × 60 HOV Lane Abead (overhead) R3-15,15c 2G.07 66 × 36 66 × 36 54 × 48 102 × 60 122 × 60 Priced Managed Lane Abead or Detentian R3-40,156 2G.07 42 × 36 42 × 36 54 × 48 102 × 60 72 × 60	Preferential Lane Ahead or Ends (post-mounted)							
Operation (overhead) 14,14a,14b 26.05 72 × 80 72 × 80 99 × 72 144 × 108 144 × 108 Preferential Lane Periods of Operation (overhead) R3-14c 26.06 90 × 60 90 × 60 108 × 72 156 × 102 168 × 102 HOV Lane Ahead (overhead) R3-15 26.06 66 × 36 66 × 36 84 × 48 102 × 60 102 × 60 HOV Lane Ends (overhead) R3-151,15c 26.07 66 × 36 66 × 36 84 × 48 102 × 60 102 × 60 Preferential Lane Ahead or Ends (overhead) R3-151,15c 26.07 42 × 36 42 × 36 54 × 48 72 × 60 72 × 60 Priced Managed Lane Vehicle Occupancy Definition R3-42,22b 26.17 - - 48 × 66 66 × 78 Priced Managed Lane Vehicle Occupancy Definition R3-42,42c 26.17 - - 48 × 66 48 × 66 60 × 78 Priced Managed Lane Periods of Operation (overhead) R3-42a,42c 26.17 - - 138 × 66 - - Priced Managed Lane Periods of Operation (overhead) R3-44	Occupancy Definition (overhead)		2G.04	66 x 36	66 x 36	84 x 48	144 x 78	144 x 78
Operation (overhead) R3-142 26.05 90.800 90.800 90.800 108.872 108.872 108.872 108.872 HOV Lane Bagins XX Miles (overhead) R3-15a 26.06 66 x 36 66 x 36 84 x 48 102 x 60 102 x 60 HOV Lane Bagins XX Miles (overhead) R3-15b, 15c 2G.07 66 x 36 66 x 36 84 x 48 102 x 60 102 x 60 Preferential Lane Ahead or Ends (overhead) R3-15d, 15e 2G.07 42 x 36 54 x 48 72 x 60 72 x 60 Occupancy Definition (post-mounted) R3-40 2G.17 - - 48 x 66 66 x 78 Priced Managed Lane Ends (post-mounted) R3-42, 42c 2G.17 - - 48 x 66 48 x 66 60 x 78 Priced Managed Lane Ends (post-mounted) R3-43, 2G.17 - - 138 x 66 - - Priced Managed Lane Finds (doverhead) R3-44, 2G.17 - - 138 x 66 - - Priced Managed Lane Finds (overhead) R3-44, 2G.17 - - 138 x 66 -	Operation (overhead)		2G.05	72 x 60	72 x 60	96 x 72	144 x 108	144 x 108
HOV Lane Begins XX Miles (overhead) R3-15a 2G.06 78 x 42 78 x 42 102 x 54 132 x 72 132 x 72 HOV Lane Ends (overhead) R3-15b,15c 2G.07 66 x 36 66 x 36 84 x 48 102 x 60 102 x 60 Preferential Lane Ahead or Ends (overhead) R3-15d,15e 2G.07 42 x 36 54 x 48 72 x 60 72 x 60 Priced Managed Lane Vehicle (post-mounted) R3-42,42b 2G.17 - - 48 x 60 48 x 60 60 x 78 Priced Managed Lane Ends (post-mounted) R3-42,42b 2G.17 - - 48 x 66 48 x 66 60 x 78 Priced Managed Lane Ends (occupancy Definition (post-mounted) R3-43 2G.17 - - 48 x 66 48 x 66 60 x 84 Priced Managed Lane Periods of Operation (overhead) R3-44 2G.17 - - 138 x 66 - - Priced Managed Lane Periods of Operation (overhead) R3-44 2G.17 - - 132 x 84 - - Priced Managed Lane Periods of Operation (overhead) R3-45 2G.17		R3-14c	2G.05	90 x 60	90 x 60	108 x 72	156 x 102	168 x 102
(torehead) (torehe		R3-15	2G.06	66 x 36	66 x 36	84 x 48	102 x 60	102 x 60
Preferential Lane Ahead or Ends (overhead) R3-15d,15e 2G.07 42 x 36 42 x 36 54 x 48 72 x 60 72 x 60 Priced Managed Lane Vehicle Occupancy Definition (post-mounted) R3-40 2G.17 - - 54 x 66 54 x 66 66 x 78 Priced Managed Lane Ends (post-mounted) R3-42,42b 2G.17 - - 48 x 60 48 x 60 60 x 78 Priced Managed Lane Ends Advance (post-mounted) R3-42,42b 2G.17 - - 48 x 66 48 x 66 60 x 78 Priced Managed Lane Ends Advance (post-mounted) R3-43 2G.17 - - 48 x 66 48 x 66 60 x 84 Priced Managed Lane Periods of Operation (overhead) R3-44 2G.17 - - 90 x 84 90 x 84 - Priced Managed Lane Periods of Operation (overhead) R3-45 2G.17 - - 90 x 86 90 x 86 - Priced Managed Lane Ends (overhead) R3-45 2G.17 - - 114 x 66 - - Priced Managed Lane Ends (overhead) R3-45 2G		R3-15a	2G.06	78 x 42	78 x 42	102 x 54	132 x 72	132 x 72
Ends (overhead) R3-150,198 20.07 42.X 36 42.X 36 54 X 88 72 X 80 72 X 80 Priced Managed Lane Vehicle (cocupancy Definition (post-mounted) R3-40 2G.17 54 x 66 54 x 66 66 x 78 Priced Managed Lane Ends (post-mounted) R3-42,42b 2G.17 48 x 60 48 x 66 60 x 78 Priced Managed Lane Ends Advance (post-mounted) R3-42a,42c 2G.17 48 x 66 48 x 66 60 x 78 Priced Managed Lane Periods of Operation (overhead) R3-44 2G.17 138 x 66 138 x 66 Priced Managed Lane Periods of Operation (overhead) R3-44a 2G.17 90 x 84 90 x 84 Priced Managed Lane Ends (overhead) R3-45a 2G.17 132 x 84 132 x 84 Priced Managed Lane Ends (overhead) R3-45a 2G.17 144 x 66 114 x 66 Priced Managed Lane Ends (overhead) R3-48a 2G.17		R3-15b,15c	2G.07	66 x 36	66 x 36	84 x 48	102 x 60	102 x 60
Occupancy Definition (post-mounted) R3-40 2G.17 54 x 66 54 x 66 66 x 78 Priced Managed Lane Ends Advance (post-mounted) R3-42,42b 2G.17 48 x 60 48 x 60 60 x 78 Priced Managed Lane Ends Advance (post-mounted) R3-42a,42c 2G.17 48 x 66 48 x 66 60 x 84 Priced Managed Lane Vehicle R3-43 2G.17 138 x 66 138 x 66 Occupancy Definition R3-44 2G.17 90 x 84 90 x 84 Priced Managed Lane Periods of Operation (overhead) R3-44a 2G.17 132 x 84 132 x 84 Priced Managed Lane Ends (overhead) R3-45a 2G.17 114 x 66 114 x 66 Priced Managed Lane R3-48a 2G.17 Varies Priced Managed Lane R3-48a 2G.17 Varies Pric	Ends (overhead)	R3-15d,15e	2G.07	42 x 36	42 x 36	54 x 48	72 x 60	72 x 60
(post-mounted) R3-42,420 26.17 48 x 60 48 x 60 60 x 78 Priced Managed Lane Ends Advance (post-mounted) R3-42a,42c 26.17 48 x 66 48 x 66 60 x 84 Priced Managed Lane Vehicle R3-43 26.17 138 x 66 138 x 66 Priced Managed Lane Vehicle R3-44 26.17 90 x 84 90 x 84 Priced Managed Lane Periods of Operation (overhead) R3-44a 26.17 90 x 84 90 x 84 Priced Managed Lane Ends (overhead) R3-45a 26.17 90 x 66 90 x 66 Priced Managed Lane Ends (overhead) R3-45a 26.17 114 x 66 114 x 66 Priced Managed Lane Ends (overhead) R3-48a 26.17 Varies Varies Priced Managed Lane R3-48a 26.17 Varies Varies	Occupancy Definition (post-mounted)	R3-40	2G.17	_	_	54 x 66	54 x 66	66 x 78
Advance (post-mounted) R3-424,420 25.17 - - 46 x 66 46 x 60 60 x 64 Priced Managed Lane Vehicle Occupancy Definition R3-43 2G.17 - - 138 x 66 138 x 66 - Priced Managed Lane Periods of Operation (overhead) R3-44 2G.17 - - 90 x 84 90 x 84 - Priced Managed Lane Periods of Operation (overhead) R3-44a 2G.17 - - 90 x 86 90 x 84 - Priced Managed Lane Ends (overhead) R3-45a 2G.17 - - 90 x 66 90 x 66 - Priced Managed Lane Ends (overhead) R3-45a 2G.17 - - 114 x 66 114 x 66 - Priced Managed Lane Ends (overhead) R3-48a 2G.17 - - Varies - - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies -		R3-42,42b	2G.17	—	-	48 x 60	48 x 60	60 x 78
Occupancy Definition R3-43 26.17 - - 138 x 66 138 x 66 - Priced Managed Lane Periods of Operation (overhead) R3-44 2G.17 - - 90 x 84 90 x 84 - Priced Managed Lane Periods of Operation (overhead) R3-44a 2G.17 - - 132 x 84 132 x 84 - Priced Managed Lane Ends (overhead) R3-45 2G.17 - - 90 x 66 90 x 66 - Priced Managed Lane Ends (overhead) R3-45a 2G.17 - - 114 x 66 114 x 66 - Priced Managed Lane R3-48a 2G.17 - - Varies Varies - Priced Managed Lane R3-48a 2G.17 - - Varies Varies - Priced Managed Lane R3-48a 2G.17 - - Varies Varies - Priced Managed Lane R3-48a 2G.17 - - Varies Varies - Priced Managed Lane R3-4		R3-42a,42c	2G.17	_	_	48 x 66	48 x 66	60 x 84
of Operation (overhead) R3-44 20.17 - - 90 x 84 90 x 84 90 x 84 - Priced Managed Lane Periods of Operation (overhead) R3-44a 2G.17 - - 132 x 84 132 x 84 - Priced Managed Lane Ends (overhead) R3-45a 2G.17 - - 90 x 66 90 x 66 - Priced Managed Lane Ends (overhead) R3-45a 2G.17 - - 114 x 66 114 x 66 - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies - - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies - - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies Varies - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies - - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies - - Preferential Lane		R3-43	2G.17	—	_	138 x 66	138 x 66	—
of Operation (overhead) R3-44a 26.17 - - 132 x 84 132 x 84 - Priced Managed Lane Ends (overhead) R3-45 2G.17 - - 90 x 66 90 x 66 - Priced Managed Lane Ends (overhead) R3-45a 2G.17 - - 114 x 66 114 x 66 - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies Varies - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies Varies - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies Varies - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies Varies - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies Varies - Proferential Lane Entrance Gore E8-1 2G.10 - - 48 x 96 48 x 96 - Preferential Lane Intermediate Direction (co		R3-44	2G.17	_		90 x 84	90 x 84	—
(overhead) R3-45 2G.17 - - 90 x 66 90 x 66 - Priced Managed Lane Ends (overhead) R3-45a 2G.17 - - 114 x 66 114 x 66 - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies - - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies - - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies - - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies - - Price Managed Lane Toll Rate R3-48a 2G.17 - - Varies - - Price Managed Lane Toll Rate W16-11P 2G.09 24 x 12 30 x 18	of Operation (overhead)	R3-44a	2G.17	_		132 x 84	132 x 84	—
(overhead) R3-43a 26.17 - - 114 x 66 114 x 66 - Priced Managed Lane Toll Rate R3-48 2G.17 - - Varies Varies - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies Varies - Priced Managed Lane Toll Rate R3-48a 2G.17 - - Varies Varies - HOV (plaque) W16-11P 2G.09 24 x 12 24 x 12 30 x 18	(overhead)	R3-45	2G.17		_	90 x 66	90 x 66	_
Toll RateNS-4326.17VariesVaries-Priced Managed Lane Toll RateR3-48a2G.17VariesVaries-HOV (plaque)W16-11P2G.0924 x 1224 x 1230 x 1830 x 1830 x 18Preferential Lane Entrance GoreE8-12G.1048 x 9648 x 96-Preferential Lane Intermediate Entrance GoreE8-1a2G.1048 x 8448 x 84-Preferential Lane Entrance Direction (overhead)E8-22G.11222 x 72222 x 72-Preferential Lane Entrance Direction (post-mounted)E8-2a2G.11186 x 108186 x 108-Preferential Lane Direct Exit GoreE8-32G.1560 x 7860 x 78-Preferential Lane Intermediate Egress DirectionE8-52G.13Varies x 84Varies x 84	(overhead)	R3-45a	2G.17		—	114 x 66	114 x 66	—
Toll Rate R3-46a 26.17 — — Values Values Values — HOV (plaque) W16-11P 2G.09 24 x 12 24 x 12 30 x 18 50 x 18 Fereireareadereadereadereadereadereaderea	Toll Rate	R3-48	2G.17	—	_	Varies	Varies	—
Preferential Lane Entrance GoreE8-12G.1048 x 9648 x 96Preferential Lane Intermediate Entrance GoreE8-1a2G.1048 x 8448 x 84Preferential Lane Entrance Direction (overhead)E8-22G.11222 x 72222 x 72Preferential Lane Entrance Direction (overhead)E8-2a2G.11186 x 108186 x 108Preferential Lane Entrance Direction (post-mounted)E8-2a2G.11186 x 96186 x 96Preferential Lane Entrance AdvanceE8-32G.11186 x 96186 x 96Preferential Lane Direct Exit GoreE8-42G.1560 x 7860 x 78Preferential Lane Intermediate Egress DirectionE8-52G.13Varies x 84Varies x 84			2G.17	—	_	Varies	Varies	—
GoreE8-12G.1048 x 9648 x 96-Preferential Lane Intermediate Entrance GoreE8-1a2G.1048 x 8448 x 84-Preferential Lane Entrance Direction (overhead)E8-22G.11222 x 72222 x 72-Preferential Lane Entrance Direction (post-mounted)E8-2a2G.11186 x 108186 x 108-Preferential Lane Entrance Direction (post-mounted)E8-2a2G.11186 x 96186 x 96-Preferential Lane Entrance AdvanceE8-32G.11186 x 96186 x 96-Preferential Lane Direct Exit GoreE8-42G.1560 x 7860 x 78-Preferential Lane Intermediate Egress DirectionE8-52G.13Varies x 84Varies x 84-		W16-11P	2G.09	24 x 12	24 x 12	30 x 18	30 x 18	30 x 18
Entrance GoreE8-1a2G.1048 x 8448 x 84Preferential Lane Entrance Direction (overhead)E8-22G.11222 x 72222 x 72Preferential Lane Entrance Direction (post-mounted)E8-2a2G.11186 x 108186 x 108Preferential Lane Entrance AdvanceE8-32G.11186 x 96186 x 96Preferential Lane Entrance AdvanceE8-32G.11186 x 96186 x 96Preferential Lane Direct Exit GoreE8-42G.1560 x 7860 x 78Preferential Lane Intermediate Egress DirectionE8-52G.13Varies x 90Varies x 84		E8-1	2G.10		—	48 x 96	48 x 96	
Direction (overhead)E8-22G.11222 x 72222 x 72Preferential Lane Entrance Direction (post-mounted)E8-2a2G.11186 x 108186 x 108Preferential Lane Entrance AdvanceE8-32G.11186 x 96186 x 96Preferential Lane Direct Exit GoreE8-42G.1560 x 7860 x 78Preferential Lane Intermediate Egress DirectionE8-52G.13Varies x 90Varies x 84	Entrance Gore	E8-1a	2G.10	—	—	48 x 84	48 x 84	—
Direction (post-mounted)E8-2a2G.11186 x 108186 x 108Preferential Lane Entrance AdvanceE8-32G.11186 x 96186 x 96Preferential Lane Direct Exit GoreE8-42G.1560 x 7860 x 78Preferential Lane Intermediate Egress DirectionE8-52G.13Varies x 90Varies x 84Preferential Lane Intermediate Egress DirectionE8-62G.13Varies x 84Varies x 84	Direction (overhead)	E8-2	2G.11	—	_	222 x 72	222 x 72	—
Preferential Lane Entrance AdvanceE8-32G.11——186 x 96186 x 96—Preferential Lane Direct Exit GoreE8-42G.15——60 x 7860 x 78—Preferential Lane Intermediate Egress DirectionE8-52G.13——Varies x 90Varies x 90—Preferential Lane Intermediate Egress DirectionE8-62G.13——Varies x 84Varies x 84—		E8-2a	2G.11	_	_	186 x 108	186 x 108	—
Gore E8-4 2G.15 - - 60 X 78 60 X 78 - Preferential Lane Intermediate Egress Direction E8-5 2G.13 - - Varies x 90 Varies x 90 - Preferential Lane Intermediate Egress Direction E8-6 2G.13 - - Varies x 84 Varies x 84 -	Preferential Lane Entrance Advance	E8-3	2G.11	_	—	186 x 96	186 x 96	—
Egress Direction E8-5 2G.13 — — Varies x 90 Varies x 90 Preferential Lane Intermediate E8-6 2G.13 — — Varies x 84 Varies x 84	Gore	E8-4	2G.15		_	60 x 78	60 x 78	_
		E8-5	2G.13			Varies x 90	Varies x 90	—
Egress Advance		E8-6	2G.13		_	Varies x 84	Varies x 84	_

Notes:

1. Larger signs may be used when appropriate



Figure 2G-1. Preferential Lane Regulatory Signs and Plaques (Sheet 1 of 2) POST-MOUNTED PREFERENTIAL LANE SIGNS

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.

Standard:

- Regulatory signs applicable only to a preferential lane shall be distinguished from regulatory signs applicable to general-purpose lanes by the inclusion of the applicable symbol(s) and/or word(s) (see Figure 2G-1). Support:
- ⁴ The symbol and word message displayed on a particular Preferential Lane regulatory sign will vary based on the specific type of allowed traffic and on other related operational constraints that have been established for a particular lane, such as an HOV lane, a bus lane, or a taxi lane.

Option:

⁵ Changeable message signs may supplement, substitute for, or be incorporated into static Preferential Lane regulatory signs where travel conditions change or where multiple types of operational strategies (such as variable occupancy requirements or vehicle types) are used and varied throughout the day or week, or on a real-time basis, to manage the use of, control of, or access to preferential lanes.

Support:

⁶ Figure 2G-1 illustrates examples of changeable messages incorporated into static 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.

Standard:

7 When changeable message signs (see Chapter 2L) are used as regulatory signs for preferential lanes, they shall be the required sign size and shall display the required letter height and legend format that corresponds to the type of roadway facility and design speed.

Guidance:

- 8 When Preferential Lane regulatory signs are used on conventional roads, the decision regarding whether to use a post-mounted or overhead version of a particular type of sign should be based on an engineering study that considers the available space, the existing signs for the adjacent general-purpose traffic lanes, roadway and traffic characteristics, the proximity to existing overhead signs, the ability to install overhead signs, and any other unique local factors.
- 9 If overhead regulatory signs applicable only to a preferential lane are located in approximately the same longitudinal position along the highway as overhead signs applicable only to the general-purpose lanes, the signs for the preferential lane should be separated laterally from the signs for the general-purpose lanes to the maximum extent practical to minimize conflicting information, while maintaining their visual relationship to the lanes below necessitated by specific legend or arrows indicating lane assignment.

¹⁰ If used, overhead Preferential Lane (R3-13 series, R3-14 series, and R3-15 series) regulatory signs shall be installed on the side of the roadway where the entrance to the preferential lane is located and any appropriate adjustments shall be made to the sign message.

Option:

- Where a median of sufficient width is available, the R3-13 series and R3-15 series signs may be post-mounted. Support:
- ¹² The sizes for Preferential Lane regulatory signs will differ to reflect the design speeds for each type of roadway facility. Table 2G-1 provides sizes for each type of roadway facility. *Guidance:*
- 13 The edges of Preferential Lane regulatory signs that are post-mounted on a median barrier should not project beyond the outer edges of the barrier, including in areas where lateral clearance is limited. Option:
- ¹⁴ Where lateral clearance is limited, Preferential Lane regulatory signs that are post-mounted on a median barrier and that are 72 inches or less in width may be skewed up to 45 degrees in order to fit within the barrier width or may be mounted higher, such that the vertical clearance to the bottom of the sign, light fixture, or structural support, whichever is lowest, is not less than 14 feet above any portion of the pavement and shoulders.

Standard:

¹⁵ Where lateral clearance is limited, Preferential Lane regulatory signs that are post-mounted on a median barrier and that are wider than 72 inches shall be mounted with a vertical clearance that complies with the provisions of Section 2A.18 for overhead mounting.

Guidance:

- On conventional roadways, Preferential Lane regulatory sign spacing should be determined by engineering judgment based on speed, block length, distances from adjacent intersections, and other site-specific considerations. Support:
- ¹⁷ Sections 2G.04 and 2G.05 contain provisions regarding the placement of Preferential Lane regulatory signs on freeways and expressways.

Standard:

¹⁸ The signs illustrated in Figure 2G-1 that incorporate the diamond symbol shall be used exclusively with preferential lanes for high-occupancy vehicles to indicate the particular occupancy requirement and time restrictions applying to that lane. The signs illustrated in Figure 2G-1 that do not have a diamond symbol shall be used with preferential lanes that are not HOV lanes, but are designated for use by other types of vehicles (such as bus and/or taxi use).

Option:

Agencies may select from either the HOV abbreviation or the diamond symbol, or use both, to reference the HOV lane designation.

- ²⁰ When the diamond symbol (or HOV abbreviation) is used without text on the post-mounted Preferential Lane (R3-10 series, R3-11 series, and R3-12 series) regulatory signs, it shall be centered on the top line of the sign. When the diamond symbol (or HOV abbreviation) is used with associated text on the post-mounted Preferential Lane (R3-10 series, R3-11 series, and R3-12 series) regulatory signs, it shall appear to the left of the associated text. When the diamond symbol is used on the overhead Preferential Lane (R3-13, R3-13a, R3-14, and R3-14a) regulatory signs, it shall appear in the top left quadrant. The diamond symbol for the R3-15, R3-15a, R3-15b, and R3-15c signs shall appear on the left-hand side of the sign. The diamond symbol shall not be used on the bus, taxi, or bicycle Preferential Lane signs.
- Vehicle Occupancy Definition, Periods of Operation, and Preferential Lane Advance regulatory signs for HOV lanes shall display the minimum allowable vehicle occupancy requirement established for each HOV lane, displayed immediately after the word message HOV or the diamond symbol. Support:
- ²² The agencies that own and operate HOV lanes have the authority and responsibility to determine how they are operated and the minimum occupancy requirements. Information about federal requirements for certain types of vehicles not meeting the minimum occupancy requirement to be eligible to use HOV lanes that receive Federal-aid

program funding and about requirements associated with proposed significant changes to the operation of an existing HOV lane and certain vehicles are contained in the "Federal-Aid Highway Program Guidance on High Occupancy Vehicle (HOV) Lanes" (see Section 1A.11).

Standard:

- ²³ The provisions of Sections 2G.03 through 2G.07 regarding regulatory signs for Preferential lanes shall apply to managed lanes operated at all times or at certain times by varying vehicle occupancy requirements (HOV) or by using vehicle type restrictions as a congestion management strategy. Such managed lanes shall use changeable message signs or changeable message elements within static signs to display the appropriate regulatory sign messages only when they are in effect.
- ²⁴ When certain types of vehicles (such as trucks) are prohibited from using a managed lane or when a managed lane is restricted to use by only certain types of vehicles during certain operational strategies, regulatory signs or regulatory panels within the appropriate guide signs that include changeable message elements shall be used to display the open/closed status of the managed lane for such vehicle types.
- ²⁵ When the vehicle occupancy required for use of an HOV lane is varied as a part of a managed lane operational strategy, regulatory signs that include changeable message elements shall be used to display the required vehicle occupancy in effect.

Support:

- See Section 2G.17 for regulatory signs for managed lanes that use tolling or pricing as a congestion management strategy, either exclusively or with other management strategies.
- Figures 2G-2 and 2G-3 illustrate the use of regulatory signs for the beginning, along the length, and at the end of contiguous or buffer-separated preferential lanes that provide continuous access with the adjacent general-purpose lanes.

Section 2G.04 <u>Preferential Lane Vehicle Occupancy Definition Regulatory Signs (R3-10 Series and R3-13 Series)</u>

Standard:

The R3-10, R3-13, and R3-13a Vehicle Occupancy Definition signs (see Figure 2G-1) shall be used where agencies determine that it is appropriate to provide a sign that defines the minimum occupancy of vehicles that are allowed to use an HOV lane.

Guidance:

The Inherently Low Emission Vehicle (ILEV) (R3-10a) sign (see Figure 2G-1) should be used when it is permissible for a properly labeled and certified ILEV, regardless of the number of occupants, to use an HOV lane. When used, the ILEV signs should be post-mounted in advance of and at intervals along the HOV lane based upon engineering judgment and the placement of other Preferential Lane regulatory signs. The R3-10a sign is only applicable to HOV lanes and should not to be used with other preferential lane applications.

Support:

³ ILEVs are defined by the Environmental Protection Agency (EPA) as vehicles having no fuel vapor (hydrocarbon) emissions and are certified by the EPA as meeting the emissions standards and requirements specified in 40 CFR 88-311-93 and 40 CFR 88.312-93(c).

Guidance:

- The legend format of the R3-10 and R3-13 signs should have the following sequence:
- *A. Top Line: "HOV 2+ ONLY" (or 3+ or 4+ if appropriate)*
- B. Bottom Lines: "2 OR MORE PERSONS PER VEHICLE" (or 3 or 4 if appropriate)

The legend format of the R3-13a sign should have the following sequence:

- *A. Top Line: "HOV 2+ ONLY" (or 3+ or 4+ if appropriate)*
- B. Middle Lines: "2 OR MORE PERSONS PER VEHICLE" (or 3 or 4 if appropriate)
- C. Bottom Lines: Times and days the occupancy restriction is in effect

Support:

⁴ Section 2G.17 contains information regarding the legends of Vehicle Occupancy Definition signs for a priced managed lane that has an occupancy requirement for non-toll travel.

⁵ For barrier- or buffer-separated or contiguous preferential lanes where access between the preferential and general-purpose lanes is restricted to designated locations, an overhead Vehicle Occupancy Definition (R3-13 or R3-13a) sign shall be installed at least 1/2 mile in advance of the beginning of or initial entry point to an HOV lane. These signs shall only be displayed in advance of the beginning of or initial entry point to HOV lanes.

Option:

⁶ For barrier-separated HOV lanes, the sequence of a post-mounted Periods of Operation (R3-11a) sign followed by a post-mounted Vehicle Occupancy Definition (R3-10) sign may be located at intervals of approximately 1/2 mile along the length of the HOV lane, at intermediate entry points, and at designated enforcement areas as defined by the operating agency.

Standard:

- For buffer-separated or contiguous HOV lanes where access is restricted to designated locations, the sequence of a post-mounted Periods of Operation (R3-11a) sign followed by a post-mounted Vehicle Occupancy Definition (R3-10) sign shall be located at intervals not greater than 1/2 mile along the length of the accessrestricted HOV lane, at designated gaps where vehicles are allowed to legally access the HOV lane, and within designated enforcement areas as defined by the operating agency.
- ⁸ For buffer-separated or contiguous HOV lanes where continuous access with the adjacent general-purpose lanes is provided, the sequence of a post-mounted Periods of Operation (R3-11a) sign followed by a postmounted Vehicle Occupancy Definition (R3-10) sign, and ILEV (R3-10a) signs if appropriate, shall be located at intervals not greater than 1/2 mile along the length of the HOV lane.

Guidance:

9 The signs within each Preferential Lane regulatory sign sequence should be separated by a minimum distance of 800 feet and a maximum distance of 1,000 feet.

Standard:

For all types of direct access ramps that provide access to or lead to HOV lanes, a post-mounted Vehicle Occupancy Definition (R3-10) sign, and an ILEV (R3-10a) sign if appropriate, shall be used at the beginning or initial entry point for the direct access ramp.

Section 2G.05 <u>Preferential Lane Periods of Operation Regulatory Signs (R3-11 Series and R3-14</u> <u>Series)</u>

Guidance:

The sizes of post-mounted Periods of Operation (R3-11 series) signs should remain consistent to accommodate any manual addition or removal of a single line of text for each sign.

Support:

² Consistent sign sizes are beneficial for agencies when ordering sign materials, as well as when making text changes to existing signs if changes occur to operating times or occupancy restrictions in the future. For example, the R3-11c sign has space for one line located below "24 HOURS" if an agency determines that it is appropriate to display additional information (such as "MON – FRI"), yet the R3-11c sign has the same dimensions as the other R3-11 series signs.

- ³ When used, the post-mounted Periods of Operation (R3-11 series) signs shall be located adjacent to the preferential lane, and the overhead Periods of Operation (R3-14 series) signs shall be mounted directly over the lane.
- 4 The legend format of the post-mounted Periods of Operation (R3-11 series) signs shall have the following sequence:
 - A. Top Lines: Lanes applicable, such as "RIGHT LANE" or "2 RIGHT LANES" or "THIS LANE"
 - B. Middle Lines: Eligible uses, such as "HOV 2+ ONLY" (or 3+ or 4+ if appropriate) or "BUSES ONLY" or other applicable uses or eligible turning movements
 - C. Bottom Lines: Applicable times and days, such as "7 AM 9 AM" or "6:30 AM 9:30 AM, MON-FRI"
- 5 The legend format of the overhead Periods of Operation (R3-14 series) signs shall have the following sequence:

- A. Top Line: Eligible uses, such as "HOV 2+ ONLY" (or 3+ or 4+ if appropriate) or "BUSES ONLY" or other applicable uses or eligible turning movements
- B. Bottom Lines: Applicable times and days, with the time and day placed above the down arrow, such as "7 AM 9 AM" or "6:30 AM 9:30 AM, MON-FRI" (When the operating periods exceed the available line width, the hours and days of the week shall be stacked as shown for the R3-14a sign in Figure 2G-1.)
- ⁶ For preferential lanes that are in effect on a full-time basis, either the full-time Periods of Operation (R3-11b and R3-14b) signs shall be used, or the legends of the part-time Periods of Operations (R3-11, R3-11a, R3-14, R3-14a) signs shall be modified to display the legend 24 HOURS.
- 7 The full-time Periods of Operation (R3-14b) sign shall not be used where the preferential lane is in effect only on a part-time basis.

Option:

- ⁸ Where additional movements are permitted from a preferential lane on an approach to an intersection, the format and words used in the legend in the middle lines on the post-mounted Periods of Operation (R3-11 series) signs and on the top line of the overhead Periods of Operation (R3-14 series) signs may be modified to accommodate the permitted movements (such as "HOV 2+ AND RIGHT TURNS ONLY").
- 9 A MOTORCYCLES ALLOWED (R3-11P) plaque may be used where motorcycles, regardless of the number of occupants, are allowed to use an HOV lane.
 St. J. J.

Standard:

- ¹⁰ If used, the MOTORCYCLES ALLOWED plaque shall be mounted below a post-mounted Preferential Lane Periods of Operation (R3-11, R3-11a, or R3-11c) sign.
- ¹¹ For all barrier- or buffer-separated or contiguous preferential lanes where access is restricted to designated locations, an overhead Periods of Operation (R3-14 series) sign shall be used at the beginning or initial entry point, and at any intermediate entry points or gaps in the barrier where vehicles are allowed to legally access the access-restricted preferential lanes. For all barrier-separated and buffer-separated preferential lanes, post-mounted Periods of Operation (R3-11 series) signs shall be used only as a supplement to the overhead signs at the beginning or initial entry point, or at any intermediate entry points or gaps in the barrier or buffer.
- ¹² For buffer-separated or contiguous preferential lanes where continuous access with the adjacent generalpurpose lanes is provided, including those where a preferential lane is added to the roadway (see Figure 2G-2 for HOV lanes) and those where a general-purpose lane transitions into a preferential lane (see Figure 2G-3 for HOV lanes), an overhead Periods of Operation (R3-14 series) sign shall be used at the beginning or initial entry point of the preferential lane.

Guidance:

¹³ Overhead (R3-14 series) or post-mounted (R3-11 series) Periods of Operation signs should be installed at periodic intervals along the length of a contiguous or buffer-separated preferential lane where continuous access with the adjacent general-purpose lanes is provided.

Option:

- Additional overhead (R3-14 series) or post-mounted (R3-11 series) Periods of Operation signs may be provided along the length of any type of preferential lane.
- On conventional roads, the overhead Periods of Operation (R3-14 series) signs may be installed at the beginning or entry points and/or at intermediate points along preferential lanes in any geometric configuration. Standard:
- ¹⁶ For all types of direct access ramps that provide access to or lead to preferential lanes, a post-mounted Periods of Operation (R3-11 series) sign shall be used at the beginning or initial entry point of the direct access ramp.

Option:

- For direct access ramps to preferential lanes, an overhead Periods of Operation (R3-14 series) sign may be used at the beginning or initial entry point to supplement the required post-mounted signs.
- Lane-use control signals (see Chapter 4M) may be used at access points to preferential lanes to indicate that a ramp or access roadway leading to the preferential lane or facility, or one or more specific lanes of the facility, are open or closed (see Figure 2G-14).

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



Section 2G.06 <u>Preferential Lane Advance Regulatory Signs (R3-12, R3-12e, R3-12f, R3-15, R3-15a, and R3-15d)</u>

Guidance:

- The Preferential Lane Advance (R3-12, R3-12f, R3-15, and R3-15d) signs should be used for advance notification of a barrier-separated, buffer-separated, or contiguous preferential lane that is added to the general-purpose lanes (see Figure 2G-12).
- The Preferential Lane Advance (R3-12e and R3-15a) signs should be used for advance notification of a general-purpose lane that becomes a preferential lane (see Figure 2G-13).
 Option:
- The legends on the R3-12f and R3-15d signs may be modified to suit the type of preferential lane. *Guidance:*
- 4 On conventional roads, for general-purpose lanes that become preferential lanes, a post-mounted (R3-12e) or overhead (R3-15a) Preferential Lane Advance sign should be installed in advance of the beginning of or initial entry

2009 MUTCD Text

point to the preferential lane at a distance determined by engineering judgment based on speed, traffic characteristics, and other site-specific considerations. The distance selected should provide adequate opportunity for ineligible vehicles to vacate the lane prior to the beginning of the restriction.

5 On freeways and expressways, for general-purpose lanes that become preferential lanes, an overhead Preferential Lane Advance (R3-15a) sign should be installed at least 1 mile in advance of the beginning of the preferential lane restriction.

Option:

⁶ Additional post-mounted or overhead Preferential Lane Advance signs may be placed farther in advance of or closer to the beginning or initial entry points to a preferential lane.

Section 2G.07 <u>Preferential Lane Ends Regulatory Signs (R3-12a, R3-12b, R3-12c, R3-12d, R3-12g, R3-12h, R3-15b, R3-15c, and R3-15e)</u>

Standard:

- A post-mounted Preferential Lane Ends (R3-12b or R3-12h) sign shall be installed at least 1/2 mile in advance of the termination of a preferential lane.
- 2 Except as provided in Paragraph 6, a post-mounted Preferential Lane Ends (R3-12a or R3-12g) sign shall be installed at the point where a preferential lane and restriction end and traffic must merge into the generalpurpose lanes.
- ³ A post-mounted Preferential Lane Ends (R3-12d) sign shall be installed at least 1/2 mile in advance of the point where a preferential lane restriction ends and the lane becomes a general-purpose lane.
- Except as provided in Paragraph 7, a post-mounted Preferential Lane Ends (R3-12c) sign shall be installed at the point where a preferential lane restriction ends and the lane becomes a general-purpose lane.
 Option:
- 5 The legends on the R3-12g and R3-15e signs may be modified to suit the type of preferential lane.
- ⁶ An overhead Preferential Lane Ends (R3-15b or R3-15e) sign may be installed instead of or in addition to a postmounted R3-12a or R3-12g sign at the point where a preferential lane and restriction ends and traffic must merge into the general-purpose lanes.
- An overhead Preferential Lane Ends (R3-15c) sign may be installed instead of or in addition to a post-mounted R3-12c sign at the point where the preferential lane restriction ends and the lane becomes a general-purpose lane.

Section 2G.08 Warning Signs on Median Barriers for Preferential Lanes

Option:

When a warning sign applicable only to a preferential lane is installed on a median barrier with limited lateral clearance to the adjacent travel lanes or shoulders, the warning sign may have a vertical rectangular shape. For a High Occupancy Vehicle lane, such signs may be used instead of using the HOV Plaque (W16-11P) (see Section 2G.09) with a standard diamond-shaped warning sign.

Standard:

When a vertical rectangular-shaped warning sign applicable only to a preferential lane is installed on a median barrier, the top portion of the sign shall be comprised of a white symbol or legend denoting the type of preferential lane (such as the diamond symbol for HOV or the legend BUS LANE) on a black background with a white border, and the bottom portion of the sign shall be comprised of the standard word message or symbol of the standard warning sign as a black legend on a yellow background with a black border (see Figure 2G-4).

Guidance:

- ³ Where lateral clearance is limited, such as when a post-mounted warning sign applicable only to a preferential lane is installed on a median barrier, the edges of the sign should not project beyond the outer edges of the barrier. Option:
- ⁴ Where lateral clearance is limited, warning signs applicable only to a preferential lane that are post-mounted on a median barrier and that are 72 inches or less in width may be skewed up to 45 degrees in order to fit within the barrier width or may be mounted higher, such that the vertical clearance to bottom of the sign, light fixture, or its structural support, whichever is lowest, is not less than 14 feet above any portion of the pavement and shoulders.

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.

Standard:

Where lateral clearance is limited, Preferential Lane warning signs that are post-mounted on a median barrier and that are wider than 72 inches shall be mounted with a vertical clearance that complies with the provisions of Section 2A.18 for overhead mounting.

Section 2G.09 <u>High-Occupancy Vehicle (HOV) Plaque (W16-11P)</u>

Option:

5

1

- In situations where there is a need to warn drivers in an HOV lane of a specific condition, a HOV (W16-11P) plaque (see Figure 2G-4) may be used above a warning sign. The HOV plaque may be used to differentiate a warning sign specific for HOV lanes when the sign is also visible to traffic on the adjacent general-purpose roadway. Among the warning signs that may be possible applications of the HOV plaque are the Advisory Exit Speed, Added Lane, and Merge signs.
- ² The diamond symbol may be used instead of the word message HOV on the W16-11P plaque. When appropriate, the words LANE or ONLY may be used on this plaque.

Support:

³ Section 2G.08 contains information regarding warning signs that can be mounted on barriers for HOV or other types of preferential lanes.

Section 2G.10 Preferential Lane Guide Signs – General

Support:

- Preferential lanes are used on freeways, expressways, and conventional roads. Except as otherwise provided, Sections 2G.10 through 2G.15 apply only to guide signs for preferential lanes on freeways and expressways. *Guidance:*
- On conventional roads, guide signs applicable only to preferential lanes are ordinarily not needed, but if used they should comply with the provisions for guide signs in Chapter 2D and any principles for Preferential Lane guide signs in Sections 2G.10 through 2G.15 that engineering judgment finds to be appropriate for the conditions. Support:

- ³ Consistency in signs and pavement markings for preferential lanes plays a critical role in building public awareness, understanding, and acceptance, and makes enforcement more effective.
- Additional guidance and standards related to the designation, operational considerations, signs, pavement markings, and other considerations for preferential lanes is provided in Sections 2G.03 through 2G.07, and 2G.09, and Chapter 3D.

Guidance:

- 5 The appropriate combinations of pavement markings and standard overhead and post-mounted regulatory, warning, and guide signs for a specific preferential lane application should be selected based on an engineering study.
- 6 If overhead signs applicable only to a preferential lane are located in approximately the same longitudinal position along the highway as overhead signs applicable only to the general-purpose lanes, the signs for the preferential lane should be separated laterally from the signs for the general-purpose lanes to the maximum extent practical to minimize conflicting information.
- 7 The Preferential Lane signs should be designed and located to avoid overloading the road user. Based on the importance of the sign, regulatory signs should be given priority over guide signs. The order of priority of guide signs should be Advance Guide, Preferential Lane Entrance Direction, and finally Preferential Lane Exit Destination supplemental guide signs.

Standard:

8 Signs applicable only to a preferential lane shall be distinguished from signs applicable to general-purpose lanes by the inclusion of the applicable symbol(s) and/or word(s).

Support:

⁹ The symbol and/or word message that appears on a particular guide sign applicable only to a preferential lane will vary based on the specific type of allowed traffic and on other related operational constraints that have been established for a particular lane, such as an HOV lane, a bus lane, or a taxi lane.

- ¹⁰ For HOV lanes, the diamond symbol shall appear on each Advance Guide sign, Preferential Lane Entrance Direction sign, and Preferential Lane Entrance Gore sign, as shown in Figures 2G-5 through 2G-7 for the designated entry and exit points for barrier- and buffer-separated geometric configurations and direct access ramps to or from such lanes. The diamond symbol shall not be used with preferential lanes for other types of traffic, such as bus lanes or taxi lanes.
- Signing for an HOV lane that is managed by means of varying the occupancy requirement in response to changing conditions shall also comply with these provisions.
- ¹² The diamond symbol shall be displayed in the legend of each Preferential Lane guide sign at the designated entry and exit points for all types of HOV lanes (including barrier- and buffer-separated, contiguous, and direct access ramps) in order to alert motorists that there is a minimum allowable vehicle occupancy requirement for vehicles to use the HOV lanes. Guide signs shall not display the occupancy requirement for the preferential lane.
- A combination of guide and regulatory signs shall be used in advance of and at the initial entry point and all intermediate entry points from general-purpose lanes or facilities to contiguous, barrier-separated, and buffer-separated preferential lanes where access between the preferential and general-purpose lanes is restricted to designated locations. The regulatory signs shall comply with the provisions of Sections 2G.03 through 2G.07.
- Regulatory signs alone shall be used in advance of, at the beginning of, and at periodic intervals along contiguous or buffer-separated preferential lanes that provide continuous access between the adjacent general-purpose lanes and the preferential lane (see Figures 2G-12 and 2G-13). The design and placement of the regulatory signs shall comply with the provisions of Sections 2G.03 through 2G.07.
- Except as otherwise provided in Sections 2G.10 through 2G.13, guide signs applicable to a preferential lane with a vehicle occupancy requirement shall be distinguished from those applicable to general-purpose lanes by displaying the white diamond symbol on a black background at the left-hand edge of these signs. Option:
- When post-mounted guide signs applicable only to a preferential lane are installed on a median barrier with limited lateral clearance to the adjacent travel lanes or shoulders, the guide signs may have a vertical rectangular shape.
 Standard:

- ¹⁷ When vertical rectangular shaped guide signs applicable only to a preferential lane are installed on a median barrier, the top portion of the signs shall be comprised of the applicable white symbol or white word message that identifies the type of preferential lane (such as the diamond symbol for an HOV lane) on a black background with a white border, and the bottom portion of the sign shall be comprised of the appropriate guide sign legend on a green background with a white border (see Figures 2G-3, 2G-6, and 2G-7). *Guidance:*
- ¹⁸ Where lateral clearance is limited, such as when a post-mounted Preferential Lane guide sign is installed on a median barrier, the edges of the sign should not project beyond the outer edges of the barrier. Option:
- ¹⁹ Where lateral clearance is limited, Preferential Lane guide signs that are 72 inches or less in width may be skewed up to 45 degrees in order to fit within the barrier width or may be mounted higher, such that the vertical clearance to the bottom of the sign, light fixture, or its structural support, whichever is lowest, is not less than 14 feet above any portion of the pavement and shoulders.

Standard:

20 Where lateral clearance is limited, Preferential Lane guide signs that are post-mounted on a median barrier and that are wider than 72 inches shall be mounted with a vertical clearance that complies with the provisions of Section 2A.18 for overhead mounting.

Option:

- Lane-use control signals (see Chapter 4M) may be used at access points to preferential lanes to indicate that a ramp or access roadway leading to or from the preferential lane or facility, or one or more specific lanes of the facility, are open or closed.
- ²² Changeable message signs may supplement, substitute for, or be incorporated into static guide signs where travel conditions change or where multiple types of operational strategies (such as variable occupancy requirements, vehicle types, or pricing policies) are used and varied throughout the day or week to manage the use of, control of, or access to preferential lanes.

Standard:

- ²³ When changeable message signs (see Chapter 2L) are used as guide signs for preferential lanes, they shall be the required sign size and shall display the required letter height and legend format that corresponds to the type of roadway facility and design speed.
- Advance Guide signs, Preferential Lane Entrance Direction signs, and Preferential Lane Entrance Gore signs for the initial entry point and intermediate entry points into a preferential lane from the general-purpose lanes on the same designated route shall not identify the entry point as an exit by using the word "EXIT" on the sign or on a plaque.

Guidance:

- Advance Guide signs and Preferential Lane Entrance Direction signs for initial and intermediate entry points into a preferential lane should use the word "ENTRANCE," such as "HOV LANE ENTRANCE" (see Figures 2G-5 and 2G-6) to convey the fact that vehicles are not leaving the designated route.
- 26 Preferential Lane Entrance Gore signs (see Figure 2G-7) at the initial entry point to a preferential lane should use the word "ENTRANCE." Preferential Lane Entrance Gore signs at intermediate entry points to a barrier-separated preferential lane where the sign would be located immediately adjacent to and directly viewed by traffic in the preferential lane should not use the word "ENTRANCE."

Standard:

27 When the entry point is on the left-hand side of the general-purpose lanes, a LEFT (E1-5aP) plaque (see Figure 2E-22) shall be added to the top left edge of the Advance Guide and Preferential Lane Entrance Direction signs. The LEFT plaque shall not be used on a preferential lane regulatory sign.

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



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.

E8-3

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



Lane Closed

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.

Section 2G.11 Guide Signs for Initial Entry Points to Preferential Lanes

Lane Open

Standard:

1

Except where a buffer-separated or contiguous preferential lane is added or where a general-purpose lane becomes a buffer-separated or contiguous preferential lane, and provides continuous access with the adjacent general-purpose lanes as illustrated in Figures 2G-2 and 2G-3, an Advance Guide sign shall be provided at least 1/2 mile prior to the initial entry point to all types of preferential lanes in any type of geometric configuration. A Preferential Lane Entrance Direction sign shall also be provided at the initial entry point. Advance Guide and Preferential Lane Entrance Direction signs for such entry points shall not include the word "EXIT" (see Section 2G.10).

Guidance:

- 2 An Advance Guide sign should also be installed and located approximately 1 mile in advance of the initial entry point to a preferential lane that restricts access with the adjacent general-purpose lanes to designated locations. Option:
- An Advance Guide sign may also be installed and located approximately 2 miles in advance of the initial entry point to a preferential lane that restricts access with the adjacent general-purpose lanes to designated locations.

Standard:

⁴ For barrier-separated, buffer-separated, or contiguous preferential lanes where entry is restricted to only designated points, the Advance Guide and Preferential Lane Entrance Direction signs shall be mounted overhead.

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

Guidance:

⁵ Preferential Lane Exit Destination guide signs, identifying final destination and downstream exit locations accessible from the preferential lane (see Figures 2G-8, 2G-13, 2G-14, and 2G-16), should be installed in advance of the initial entry points to access-restricted preferential lanes (such as barrier- and buffer-separated). These signs should be located based on the priority of the message, the available space, the existing signs on adjacent generalpurpose traffic lanes, roadway and traffic characteristics, the proximity to existing overhead signs, the ability to install overhead signs, and other unique local factors.

Standard:

- Advance destination guide signs for preferential lanes shall include an upper section displaying a black legend that includes the type of preferential lane and the word "EXITS," such as "HOV EXITS," on a white background. For preferential lanes that incorporate a vehicle occupancy requirement, the white diamond symbol on a black background shall be displayed at the left-hand edge of this upper section (see Figure 2G-8). Support:
- ⁷ Figure 2G-8 shows an example of signs for the initial entry point to a preferential lane.

Section 2G.12 <u>Guide Signs for Intermediate Entry Points to Preferential Lanes</u> Standard:

For barrier-separated, buffer-separated, and contiguous preferential lanes where entry is restricted only to designated points, an overhead Preferential Lane Entrance Direction sign shall be provided at intermediate entry points to the preferential lane from the general-purpose lanes.

Guidance:

- ² For barrier- and buffer-separated preferential lanes where intermediate entry from the general-purpose lanes is provided via a separate lane or ramp (see Figure 2G-9), at least one Advance Guide sign should be provided in addition to the Preferential Lane Entrance Direction sign.
- ³ For access-restricted preferential lanes where intermediate entrance and egress are at the same designated access location, the Preferential Lane Entrance Direction sign should be located between 1/2 and 1/4 of the length of the designated entry area, as measured from the downstream end of the entry area (see Figure 2G-10).

Standard:

⁴ The Advance Guide signs, if used for intermediate entry points to a preferential lane from the generalpurpose lanes, shall be overhead.

Option:

⁵ Advance Guide signs may be provided at approximately 1/2 mile, 1 mile, and 2 miles in advance of intermediate entry points from the general-purpose lanes to a preferential lane.

Standard:

6 Advance Guide and Preferential Lane Entrance Direction signs for intermediate entry points shall not include the word "EXIT" (see Section 2G.10).

Figure 2G-8. Example of Signing for an Entrance to Access-Restricted HOV Lanes



Guidance:

Exit Destination guide signs, identifying the final destination and downstream exit locations accessible from the preferential lane, should be installed in advance of intermediate entry points from the general-purpose lanes to access-restricted preferential lanes.

Support:

- 8 Section 2G.11 contains information on the design and placement of Preferential Lane Exit Destination guide signs.
- ⁹ Figures 2G-9 and 2G-10 show examples of signs for various geometric configurations of intermediate entry to a barrier- or buffer-separated preferential lane where access is restricted to designated locations.

Figure 2G-9. Example of Signing for an Intermediate Entry to a Barrier- or Buffer-Separated HOV Lane



Figure 2G-10. Example of Signing for the Intermediate Entry to, Egress from, and End of Access-Restricted HOV Lanes



Section 2G.13 <u>Guide Signs for Egress from Preferential Lanes to General-Purpose Lanes</u> Standard:

For barrier-separated, buffer-separated, and contiguous preferential lanes where egress is restricted only to designated points, post-mounted Advance Guide and post-mounted Intermediate Egress Direction signs (see Figure 2G-11) shall be installed in the median or on median barriers that separate two directions of traffic prior to and at the intermediate exit points from the preferential lanes to the general-purpose lanes (see Figure 2G-9).

1

The legends of these signs shall refer to the next exit or exits from the general-purpose lanes by displaying the appropriate destination information, exit number(s), or both. The Intermediate Egress Direction signs for egress from the preferential lanes to the general-purpose lanes shall not refer to the egress as an exit.





Support:

E8-5

E8-6

³ Section 2G.10 contains information on the design of post-mounted guide signs applicable to a preferential lane when installed on a median barrier. Figures 2G-9 and 2G-12 show examples of signs for various geometric configurations of intermediate egress from a barrier- or buffer-separated preferential lane where access is restricted to designated locations.

Guidance:

- Where two or more adjacent preferential lanes are present in a single direction, consideration should be given to the use of overhead guide signs to display the information related to egress from the preferential lanes.
- 5 For barrier-separated and buffer-separated preferential lanes where egress from a preferential lane to the generalpurpose lanes is restricted only to designated points via a separate lane or ramp, the Advance Guide and Intermediate Egress Direction signs for the egress should be mounted overhead and a Pull-Through sign should be mounted with the Intermediate Egress Direction sign (see Figure 2G-12).

Standard:

- ⁶ For preferential lanes that incorporate a vehicle occupancy requirement, the design of the overhead Advance Guide and Egress Direction signs for intermediate egress from the preferential lanes to the general-purpose lanes shall display a white diamond symbol on a black background at the left-hand edge of the signs.
- 7 The design of Pull-Through signs when used in conjunction with an Egress Direction sign at an intermediate egress from the preferential lanes to the general-purpose lanes shall be distinguished from those applicable to general-purpose lanes by inclusion of an upper section with the applicable black legend on a white background, such as HOV LANE. For preferential lanes that incorporate a vehicle occupancy requirement, the white diamond symbol on a black background shall be displayed at the left-hand edge of this upper section.

Section 2G.14 <u>Guide Signs for Direct Entrances to Preferential Lanes from Another Highway</u> Standard:

For direct access ramps to preferential lanes from a transit facility (such as a park - ride lot or a transit station or terminal) that is accessible from surface streets, advance guide signs shall be provided along the adjoining surface streets to direct traffic into and through the transit facility to the preferential lane (see Figure 2G-13).

Support:

² Figure 2G-13 provides examples of recommended uses and layouts of signs for HOV lanes for direct access ramps, park - ride lots, and access from surface streets.

Figure 2G-12. Examples of Signs for an Intermediate Egress from a Barrier- or Buffer-Separated HOV Lane



Figure 2G-13. 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 3D 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
- 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
- ✤ For access-restricted facilities; destinations may be augmented to accompany routes on Interchange Sequence signs (see Figure 2E-31)

Figure 2G-14. Exit Gore Sign for a Direct Exit from a Preferential Lane



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.

Section 2G.15 <u>Guide Signs for Direct Exits from Preferential Lanes to Another Highway</u> Standard:

- For contiguous preferential lanes on the left-hand side of the roadway, Advance Guide signs, Exit Direction signs, and Exit Gore signs (see Figure 2G-14) specifically applicable to the preferential lanes shall be used for exits to direct access ramps, such as HOV lane ramps (see Figure 2G-15) or ramps to park ride facilities.
- The design of Advance Guide, Exit Direction, and Pull-Through signs for direct exits from preferential lanes shall be distinguished from those applicable to general-purpose lanes by inclusion of an upper section with the applicable black legend on a white background, such as HOV LANE (for Pull-Through signs) or HOV EXIT (for Advance Guide and Exit Direction signs). For preferential lanes that incorporate a vehicle occupancy requirement, the white diamond symbol on a black background shall be displayed at the left-hand edge of this upper section (see Figures 2G-15 and 2G-16).

Guidance:

- 3 Advance Guide and Exit Direction signs for exits to direct access ramps from a preferential lane should be mounted overhead. A Pull-Through sign should be used with the Exit Direction sign at exits to direct access ramps. Standard:
- ⁴ Post-mounted guide signs in a vertical rectangular shape installed on a median barrier shall not be used for the Advance Guide and Exit Direction signs for exits to direct access ramps.
- ⁵ Because direct access ramps for preferential lanes at interchanges connecting two freeways are typically lefthand side exits and typically have design speeds similar to the preferential lane, overhead Advance Guide signs and overhead Exit Direction signs shall be provided in advance of and at the entry point to each freeway-to-freeway preferential lane ramp (see Figure 2G-16).

Guidance:

6 The use of guide signs for preferential lanes at freeway interchanges should comply with the provisions for guide signs established in this Manual.

Support:

⁷ Guide signs for direct access ramps for preferential lanes at interchanges connecting two freeways are similar to those for a connecting ramp between two freeway facilities.

Section 2G.16 Signs for Priced Managed Lanes – General

Support:

- A priced managed lane is a managed lane that employs tolling or pricing, typically through electronic toll collection, to manage congestion levels and maintain a certain level of service for users of the facility. A priced managed facility typically provides a less congested alternative to adjacent lanes along the same designated route, or to a nearby facility, that experience recurring congestion during peak periods. A priced managed lane might allow nontoll travel by certain vehicles based on occupancy or other criteria. A variety of operational management strategies might be used in conjunction with tolling or pricing.
- The number and combination of operational strategies that are applied to a managed lane to manage congestion or improve efficiency might be practically limited by the amount of information that can be legibly displayed on signs or in signing sequences and still be readily comprehended by road users. Such factors to consider when evaluating alternatives for managed lanes are locations of signs for general-purpose interchanges and for other roadway conditions, the number of intermediate access points between the managed and general-purpose lanes and the need to repeat the operational information, and the distance over which a signing sequence that displays all of the eligibility requirements can be displayed.



Figure 2G-15. Examples of Guide Signs for Direct HOV Lane Entrance and Exit Ramps

Figure 2G-16. Examples of Guide Signs for a Direct Access Ramp between HOV Lanes on Separate Freeways



- Because managed lanes have the capability to employ a variety of operational strategies on a changing basis, it is not practical to assign a naming convention to such lanes for the purpose of signing based on the specific operational management strategies, as is more readily accomplished with other types of preferential lanes, such as HOV, Bus, or Bike lanes. Instead, the various requirements, restrictions, and eligibility criteria are more appropriately conveyed through a sequence of regulatory and guide signs with a more encompassing designation for the purpose of providing directional information.
- ⁴ As priced managed lanes become more prevalent as an operational strategy, it will be important to establish a uniform naming convention to distinguish those lanes that are an alternative to travel on adjacent general-purpose lanes on the same designated route to effectively communicate to motorists the range of basic requirements for similar facilities in different regions.

Standard:

2009 MUTCD Text

Priced managed lanes that are adjacent to general-purpose lanes along the same designated route shall be signed using the legend EXPRESS or EXPRESS LANE(S). This provision shall apply when any of the following operational strategies is used for a managed lane:

- A. All users of the managed lane are charged a fixed or variable toll;
- **B.** General-purpose traffic using the managed lane is charged a fixed or variable toll, but HOV traffic is allowed to travel without being charged a toll on either a full- or part-time basis;
- C. General-purpose traffic using the managed lane is charged a fixed or variable toll, but HOV traffic is offered a discounted toll on either a full- or part-time basis; or
- D. General-purpose traffic using the managed lane is charged a fixed or variable toll, but HOV traffic registered with a local program travels at a discounted toll or without being charged a toll on either a full- or part-time basis (a transponder or other identifier is typically required of HOVs to indicate registration in conjunction with electronic or visual enforcement and verification of vehicle occupancy).
- ⁶ The legends EXPRESS and EXPRESS LANE(S) shall not be used on signs for entrances to highways on which all lanes are managed and there are no adjacent general-purpose lanes on the same designated route. The legends EXPRESS and EXPRESS LANE(S) shall not be used on signs for a managed ramp connection that provides an alternative to a general-purpose ramp connection (see Figure 2F-7), except where the ramp leads directly to a managed lane as described in Section 2G.14. The legends EXPRESS and EXPRESS LANE(S) shall not be used on signs for open-road tolling lanes that bypass a conventional toll plaza (see Chapter 2F).
- 7 The diamond symbol shall be reserved exclusively for preferential lanes whose operational strategy is occupancy-based only (see Sections 2G.03 through 2G.14) and shall not be used to designate a managed lane in which other operational strategies, such as tolling and pricing, are employed to allow general-purpose traffic to use the lane.

Section 2G.17 <u>Regulatory Signs for Priced Managed Lanes</u>

Standard:

5

- Except as otherwise provided in this Section, the provisions of Sections 2G.03 through 2G.07 regarding regulatory signs for Preferential lanes shall apply to priced managed lanes operated at all times or at certain times with a toll payment requirement of some or all vehicles to use the lane(s). Such managed lanes shall use changeable message signs or changeable message elements within static signs to display the appropriate regulatory sign messages only when they are in effect.
- 2 Regulatory signs for preferential lanes shall be appropriately modified for adaptation to a priced managed lane, where applicable, as shown in Figure 2G-17.
- Regulatory signs shall be used to indicate the toll charged. If the toll varies, regulatory signs that include changeable message elements, such as the R3-48 and R3-48a signs that are shown in Figure 2G-17, shall be used to display the actual toll amount in effect at any given time.
- When only vehicles with a registered ETC account are allowed to use a managed lane where some or all vehicles are charged a toll, regulatory signs to indicate such a restriction shall be provided and shall incorporate the pictograph adopted by the toll facility's ETC payment system and the word ONLY (see Section 2G.18 for the incorporation of such regulatory legends into the guide signs for the entrances to such facilities). The display of the ETC system pictograph shall comply with the provisions of Sections 2F.03 and 2F.04 as shown in Figures 2G-17 and 2G-18.
- ⁵ When HOV traffic is allowed to use a priced managed lane without paying a toll and registration in a local program is not required to receive the toll exemption, the Vehicle Occupancy Definition (R3-10 or R3-13) signs (see Section 2G.04) shall be modified to delete the diamond symbol to create priced managed lane Vehicle Occupancy Definition (R3-40 and R3-43) signs to indicate the minimum occupancy related to the management strategy (see Figure 2G-17).
- ⁶ A priced managed lane Periods of Operation (R3-44 or R3-44a) sign (see Figure 2G-17) shall be installed at the beginning or initial entry point, and at any intermediate entry points where vehicles are allowed to legally enter an access-restricted priced managed lane.
- 7 When the vehicle occupancy required for non-toll use of a managed lane is varied as a part of a priced managed lane operational strategy, regulatory signs that include changeable message elements shall be used to display the required vehicle occupancy in effect for non-toll travel.



Figure 2G-17. 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.

Option:

⁸ Where registration in a local program or ETC account is required for HOV traffic to travel in a priced managed lane without being charged a toll or by being charged a discounted toll, such information may be displayed on a separate sign within the sequence of the required regulatory and guide signs.

Standard:

9 R3-42 Series and R3-45 Series signs (see Figure 2G-17) shall be installed in accordance with the provisions of Section 2G.07 to indicate the termination of a priced managed lane or restriction. The R3-42, R3-42a, and R3-45 signs shall be used only where the managed lane and restriction end and traffic must merge into the general-purpose lanes. The R3-42b, R3-42c, and R3-45a signs shall be used only where the managed lane restriction ends and the lane becomes a general-purpose lane.

Section 2G.18 Guide Signs for Priced Managed Lanes

Standard:

1

Except as otherwise provided in this Section, guide signs for barrier-separated, buffer-separated, and contiguous managed lanes shall follow the specific provisions for Preferential Lane guide signs contained in Sections 2G.10 through 2G.15. Except as otherwise provided in this Section, guide signs for highways on which all lanes are managed shall follow the general provisions for freeway and expressway guide signs as contained in Chapter 2E as a whole. Guide signs for highways on which all lanes are management strategy shall follow the applicable provisions for toll road guide signs as contained in Chapter 2F, in addition to the general provisions of Chapter 2E.

² If fixed or variable tolls are used as an operational strategy for a managed lane, the guide signs shall comply with the provisions of Sections 2F.03, 2F.04, and 2F.17 regarding the use, size, and placement of ETC-account pictographs.

Support:

³ Figure 2G-18 shows examples of Guide signs for entrances to priced managed lanes and other ETC account-only toll facilities that incorporate header panels with ETC account pictographs and regulatory legends.

Figure 2G-18. 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



Note: 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.

Guidance:

- 4 Exit Destination supplemental guide signs, identifying final destination and downstream exit locations accessible from the managed lane (see Figure 2G-19), should be installed in advance of the initial entry points to priced managed lanes. These signs should be located in accordance with the provisions of Paragraph 5 of Section 2G.11.
- 5 For managed lanes that are available as an alternative to travel on adjacent general-purpose lanes on the same designated route, changeable message signs indicating the comparative travel times or congestion levels using the managed lanes versus the general-purpose lanes (see Figure 2G-20) should be installed in advance of the initial and intermediate entry points to the managed lanes. Option:
- ⁶ Changeable message signs may also be used on non-managed highways to display comparative travel times or congestion levels for a nearby managed highway.

Standard:

7

8

Guide signs at the initial and intermediate entry points to a priced managed lane in which all generalpurpose passenger vehicles are allowed shall include the legend EXPRESS or EXPRESS LANE(S). The guide signs shall incorporate the pictograph of the ETC account system into a header panel within the guide sign in accordance with Sections 2F.03, 2F.04, and 2F.17. For a priced managed lane that allows non-toll travel by HOV traffic without registration in a local program, the header panel shall be modified to a regulatory format to display both the pictograph of the ETC account system and the minimum Figure 2G-19. Example of an Exit Destinations Sign for a Managed Lane



- occupancy requirement for non-toll travel with a black legend on a white background (see Figure 2G-19).
- Guide signs at the initial and intermediate entry points to a managed lane that allows only HOV traffic with either a fixed or variable occupancy requirement shall follow the provisions of Sections 2G.10 through 2G.12 and 2G.14.



Figure 2G-20. Example of a Comparative Travel Time Information Sign for Preferential or Managed Lanes

Support:

⁹ Figures 2G-21 through 2G-24 show examples of guide signs for various configurations of initial and intermediate entrances to a priced managed lane.

Standard:

- The use and locations of guide signs for intermediate egress locations and direct exits from a priced managed lane (see Figures 2G-24 through 2G-27) shall comply with the provisions of Sections 2G.13 and 2G.15. The signs shall be suitably modified to display header messages of white legend on a green background that relate the guide sign legends to the managed lane(s) as appropriate in accordance with the following:
 - A. Post-mounted or overhead-mounted Advance Guide signs for intermediate egress to the generalpurpose lanes shall include the legend LOCAL EXITS in a header panel within the guide signs, destination information or the exit number(s) for the next exit(s) accessible from the general-purpose lanes, and the appropriate distance information to the location of the egress (see Figures 2G-24 and 2G-25).
 - B. Post-mounted or overhead-mounted Intermediate Egress Direction signs shall include the legend LOCAL EXITS in a header panel within the signs, the destination information or the exit number(s) of the next exit(s) accessible from the general-purpose lanes, and a diagonally upward-pointing directional arrow (see Figures 2G-24 and 2G-25).
 - C. For direct exits to another roadway, the legend EXPRESS EXIT shall be used on the Advance Guide and Exit Direction signs (see Figure 2G-26).
 - D. For pull-through signs, the legend EXPRESS LANE(S) shall be used, either as a header panel within the pull-through sign or as the principal legend of the sign without a header panel (see Figures 2G-25, 2G-26, and 2G-27).

Support:

¹¹ Section 2G.13 contains information on the use of overhead-mounted guide signs for intermediate egress to the general-purpose lanes.

Figures 2G-28 and 2G-29 show examples of guide signing for direct entrances to a priced managed lane from a crossroad or surface street.



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



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

Legend

(2) All vehicles except HOV must have a registered ETC account. If registration is required for non-toll travel by HOV traffic, case (1) signing shall be used.

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



Figure 2G-25. Examples of Guide Signs for an Intermediate Egress from a Barrier- or Buffer-Separated Managed Lane





Figure 2G-26. Examples of Guide Signs for Direct Managed Lane Entrance and Exit Ramps



Figure 2G-27. Examples of Guide Signs for a Direct Access Ramp between Managed Lanes on Separate Freeways



Figure 2G-28. 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-29. Examples of Guide Signs for Separate Entrance Ramps to General-Purpose and Priced Managed Lanes from the Same Crossroad

CHAPTER 2H. GENERAL INFORMATION SIGNS

Section 2H.01 Sizes of General Information Signs

Standard:

Except as provided in Section 2A.11, the sizes of General Information signs that have a standardized design shall be as shown in Table 2H-1.

Support:

- 2 Section 2A.11 contains information regarding the applicability of the various columns in Table 2H-1.
 - Option:

1

³ Signs larger than those shown in Table 2H-1 may be used (see Section 2A.11).

Sign	Sign Designation	Section	Conventional Road	Freeway or Expressway
Reference Location (1 digit)	D10-1	2H.05	10 x 18	12 x 24
Intermediate Reference Location (2 digits)	D10-1a	2H.05	10 x 27	12 x 36
Reference Location (2 digits)	D10-2	2H.05	10 x 27	12 x 36
Intermediate Reference Location (3 digits)	D10-2a	2H.05	10 x 36	12 x 48
Reference Location (3 digits)	D10-3	2H.05	10 x 36	12 x 48
Intermediate Reference Location (4 digits)	D10-3a	2H.05	10 x 48	12 x 60
Enhanced Reference Location	D10-4	2H.06	18 x 54	18 x 54
Intermediate Enhanced Reference Location	D10-5	2H.06	18 x 60	18 x 60
Acknowledgment	D14-1	2H.08	36 x 30*	72 x 48*
Acknowledgment	D14-2	2H.08	36 x 30*	72 x 48*
Acknowledgment	D14-3	2H.08	42 x 24*	96 x 36*
Signals Set for XX MPH	l1-1	2H.03	24 x 36	_
Jurisdictional Boundary	I-2	2H.04	Varies x 18**	Varies x 36**
Geographical Features	I-3	2H.04	Varies x 18**	Varies x 36**
Airport	I-5	2H.02	24 x 24	30 x 30
Bus Station	I-6	2H.02	24 x 24	30 x 30
Train Station	I-7	2H.02	24 x 24	30 x 30
Library	I-8	2H.02	24 x 24	30 x 30
Vehicle Ferry Terminal	I-9	2H.02	24 x 24	30 x 30
Recycling Collection Center	I-11	2H.02	30 x 48	_
Light Rail Transit Station	I-12	2H.02	24 x 24	_

Table 2H-1.	General	Information	Sian	Sizes

* The size shown is the maximum size for the corresponding roadway classification. The size of the sign and acknowledgement logo should be appropriately reduced where shorter legends are used.

** The size shown is for the typical sign illustrated in the figure. The size should be determined based on the amount of legend required for the sign.

Notes: 1. Larger signs may be used when appropriate, except for the D14 series signs 2. Dimensions in inches are shown as width x height

Section 2H.02 General Information Signs (I Series)

Support:

1

2

Of interest to the traveler, though not directly necessary for guidance, are numerous kinds of information that can properly be conveyed by General Information signs (see Figure 2H-1) or miscellaneous information signs (see Section 2H.04). They include such items as State lines, city limits, other political boundaries, time zones, stream names, elevations, landmarks, and similar items of geographical interest, and safety and transportation-related messages. Chapter 2M contains recreational and cultural interest area symbol signs that are sometimes used in combination with General Information signs.

Guidance:

General Information signs should not be installed within a series of guide signs or at other equally critical locations, unless there are specific reasons for orienting the road user or identifying control points for activities that are clearly in the public interest. On all such signs, the designs should be simple and dignified, devoid of any advertising, and in general compliance with other guide signing.

Figure 2H-1. General Information and Miscellaneous Information Signs



Standard:

3 Except for political boundary signs, General Information signs shall have white legends and borders on green rectangular-shaped backgrounds.

Option:

- ⁴ An information symbol sign (I-5 through I-9) may be used to identify a route leading to a transportation or general information facility, or to provide additional guidance to the facility. The symbol sign may be supplemented by an educational plaque where necessary; also, the name of the facility may be used if needed to distinguish between similar facilities.
- ⁵ The Advance Turn (M5 series) or Directional Arrow (M6 series) auxiliary signs shown in Figure 2H-1 with white arrows on green backgrounds may be used with General Information symbol signs to create a General Information Directional Assembly.
- ⁶ Guide signs for commercial service airports and non-carrier airports may be provided from the nearest Interstate, other freeway, or conventional highway intersection directly to the airport, normally not to exceed 15 miles. The Airport (I-5) symbol sign along with a supplemental plaque may be used to indicate the specific name of the airport. An Airport symbol sign, with or without a supplemental name plaque or the word AIRPORT, and an arrow may be used as a trailblazer.

Standard:

7 Adequate trailblazer signs shall be in place prior to installing the airport guide signs.

Support:

- 8 Location and placement of all airport guide signs depends upon the availability of longitudinal spacing on highways. Option:
- 9 The Recycling Collection Center (I-11) symbol sign may be used to direct road users to recycling collection centers. *Guidance:*
- *The Recycling Collection Center symbol sign should not be used on freeways and expressways.* **Standard:**
- If used on freeways or expressways, the Recycling Collection Center symbol sign shall be considered one of the supplemental sign destinations.
- ¹² When a sign is used to display a safety or transportation-related message, the display format shall not be of a type that would be considered similar to advertising displays. Messages and symbols that resemble any official traffic control device shall not be used on safety or transportation-related message signs. Option:

¹³ The pictograph of a political jurisdiction (such as a State, county, or municipal corporation) may be displayed on a political boundary General Information sign.

Standard:

¹⁴ If used, the height of a pictograph on a political boundary General Information sign shall not exceed two times the height of the upper-case letters of the principal legend on the sign. The pictograph shall comply with the provisions of Section 2A.06.

Section 2H.03 Traffic Signal Speed Sign (I1-1)

Option:

- ¹ The Traffic Signal Speed (I1-1) sign (see Figure 2H-1), reading SIGNALS SET FOR XX MPH, may be used to indicate a section of street or highway on which the traffic control signals are coordinated into a progressive system timed for a specified speed at all hours during which they are operated in a coordinated mode.
- If different system progression speeds are set for different times of the day, a changeable message element may be used for the numerals of the Traffic Signal Speed (I1-1) sign. If the system is operated in coordinated mode only during certain times, a blank-out version of the Traffic Signal Speed (I1-1) sign may be used to display the message only during those times.

Guidance:

³ If used, the sign should be mounted as near as practical to each intersection where the timed speed changes, and at intervals of several blocks throughout any section where the timed speed remains constant.

Standard:

⁴ The Traffic Signal Speed sign shall be a minimum of 24 x 36 inches with the longer dimension vertical. It shall have a white message and border on a green background.

Section 2H.04 Miscellaneous Information Signs

Support:

Miscellaneous information are used to point out geographical features, such as rivers and summits, and other jurisdictional boundaries (see Section 2H.02). Figure 2H-1 shows examples of miscellaneous information (I-2 and I-3) signs.

Option:

2 Miscellaneous information signs may be used if they do not interfere with signing for interchanges or other critical points.

Guidance:

³ Miscellaneous information signs should not be installed unless there are specific reasons for orienting the road users or identifying control points for activities that are clearly in the public interest. If Miscellaneous information signs are to be of value to the road user, they should be consistent with other guide signs in design and legibility. On all such signs, the design should be simple and dignified, devoid of any tendency toward flamboyant advertising, and in general compliance with other signing.

Section 2H.05 <u>Reference Location Signs (D10-1 through D10-3) and Intermediate Reference</u> <u>Location Signs (D10-1a through D10-3a)</u>

Support:

1

- There are two types of reference location signs:
 - A. Reference Location (D10-1, 2, and 3) signs show an integer distance point along a highway, and
 - B. Intermediate Reference Location (D10-1a, 2a, and 3a) signs also show a decimal between integer distance points along a highway.

Standard:

Except when Enhanced Reference Location signs (see Section 2H.06) are used instead, Reference Location (D10-1 through D10-3) signs shall be placed on all expressway facilities that are located on a route where there is reference location sign continuity and on all freeway facilities to assist road users in estimating their progress, to provide a means for identifying the location of emergency incidents and traffic crashes, and to aid in highway maintenance and servicing.

Option:

contain 6-inch white numerals on a green background that is at least 10 inches wide with a white border. The signs shall contain the word

maintenance and servicing.

Standard:

and a zero numeral.

MILE in 4-inch white letters.

contain the word MILE in 4-inch white letters.

mile intervals, or at some other regular spacing.

8 Reference location signs shall have a minimum mounting height of 4 feet, measured vertically from the bottom of the sign to the elevation of the near edge of the roadway, and shall not be governed by the mounting height requirements prescribed in Section 2A.18.

Reference Location (D10-1 to D10-3) signs (see Figure 2H-2) may be

in estimating their progress, to provide a means for identifying the

installed along any section of a highway route or ramp to assist road users

location of emergency incidents and traffic crashes, and to aid in highway

To augment the reference location sign system, Intermediate Reference

Location (D10-1a to D10-3a) signs (see Figure 2H-3), which show the tenth of a mile with a decimal point, may be installed at one tenth of a

When Intermediate Reference Location (D10-1a to D10-3a) signs are

used to augment the reference location sign system, the reference location sign at the integer mile point shall display a decimal point

When placed on freeways or expressways, reference location signs

background with a white border. The signs shall be 24, 36, or 48 inches in height for one, two, or three digits, respectively, and shall

When placed on conventional roads, reference location signs shall

shall contain 10-inch white numerals on a 12-inch wide green

⁹ The distance numbering shall be continuous for each route within a State, except where overlaps occur (see Section 2E.31). Where routes overlap, reference location sign continuity shall be established for only one of the routes. If one of the overlapping routes is an Interstate route, that route shall be selected for continuity of distance numbering.

Guidance:

3

4

5

6

7

- ¹⁰ The route selected for continuity of distance numbering should also have continuity in interchange exit numbering (see Section 2E.31).
- On a route without reference location sign continuity, the first reference location sign beyond the overlap should indicate the total distance traveled on the route so that road users will have a means of correlating their travel distance between reference location signs with that shown on their odometer.

Standard:

¹² For divided highways, the distance measurement shall be made on the northbound and eastbound roadways. The reference location signs for southbound or westbound roadways shall be set at locations directly opposite the reference location signs for the northbound or eastbound roadways.

Guidance:

¹³ Zero distance should begin at the south and west State lines, or at the south and west terminus points where routes begin within a State.

Standard:

Except as provided in Paragraph 15, reference location signs shall be installed on the right-hand side of the roadway.

Option:

¹⁵ Where conditions limit or restrict the use of reference location signs on the right-hand side of the roadway, they may be installed in the median. On two-lane conventional roadways, reference location signs may be installed on one

December 2009









side of the roadway only and may be installed back-to-back. Reference location signs may be placed up to 30 feet from the edge of the pavement.

¹⁶ 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:

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

Section 2H.06 Enhanced Reference Location Signs (D10-4, D10-5)

Support:

- ¹ There are two types of enhanced reference location signs:
 - A. Enhanced Reference Location signs (D10-4), and
 - B. Intermediate Enhanced Reference Location signs (D10-5).

Option:

- ² Enhanced Reference Location (D10-4) signs (see Figure 2H-4), which enhance the reference location sign system by identifying the route, may be placed on freeways or expressways (instead of Reference Location signs) or on conventional roads.
- ³ To augment an enhanced reference location sign system, Intermediate Enhanced Reference Location (D10-5) signs (see Figure 2H-4), which show the tenth of a mile with a decimal point, may be installed along any section of a highway route or ramp at one tenth of a mile intervals, or at some other regular spacing.

Standard:

⁴ If enhanced reference location signs are used, they shall be vertical signs having blue or green backgrounds with white numerals, letters, and borders, except for the route shield, which shall be the standard





color and shape. The top line shall consist of the cardinal direction for the roadway. The second line shall consist of the applicable route shield for the roadway. The third line shall identify the mile reference for the location and the bottom line of the Intermediate Enhanced Reference Location sign shall give the tenth of a mile reference for the location. The bottom line of the Intermediate Enhanced Reference location signs shall be a minimum of 6 inches. The height of the route shield on enhanced reference location signs shall be a minimum of 12 inches.

Enhanced reference location signs (D10-4) and intermediate enhanced reference location signs (D10-5) shall have blue backgrounds with white numerals, letters, and borders, except for the route shield, which shall be the standard color and shape.

The background color shall be the same for all enhanced reference location signs within a jurisdiction. Enhanced reference location signs and intermediate enhanced reference location signs shall be installed in the median.

Support:

5

6

The provisions in Section 2H.05 regarding mounting height, distance numbering and measurements, sign continuity, and placement with respect to the right-hand shoulder and/or median for reference location signs also apply to enhanced reference location signs.

Section 2H.07 <u>Auto Tour Route Signs</u>

Support:

- Auto Tour Route signs are informational signs, plaques, or shields designed to provide road users with route guidance in following an auto tour route of particular cultural, historical, or educational significance.
- Signed auto tour routes are used in some cases to generally follow the historical route of a trail, such as the National Historic Trails administered by the National Park Service. Examples include auto tour routes that parallel the Lewis and Clark National Historic Trail, the Oregon National Historic Trail, and the Santa Fe National Historic Trail. *Guidance:*

³ If shields or other similar signs are used to provide route guidance in following an auto tour route, they should be designed in accordance with the sizes and other design principles for route signs, such as those described in Sections 2D.10 through 2D.12.

Option:

⁴ Auto Tour Route signs may be installed on a highway if they have been approved by the appropriate transportation agency.

Standard:

⁵ Auto Tour Route signs shall not be installed on freeways or expressways, except as necessary to provide continuity between discontinuous segments of conventional roadways that are designated as auto tour routes, for which the freeway or expressway provides the only connection between the segments. If installed on freeways or expressways, Auto Tour Route signs shall be installed as independent trailblazer assemblies (see Sections 2D.35 and 2E.27) and shall not be installed with other Route signs or confirmation assemblies or on guide signs. If installed on freeways or expressways, Auto Tour Route trailblazer assemblies shall be installed at less frequent intervals than route confirmation assemblies.

Section 2H.08 Acknowledgment Signs

Support:

1

- Acknowledgment signs are a way of recognizing a company, business, or volunteer group that provides a highwayrelated service. Acknowledgment signs include sponsorship signs for adopt-a-highway litter removal programs, maintenance of a parkway or interchange, and other highway maintenance or beautification sponsorship programs. *Guidance:*
- A State or local highway agency that elects to have an acknowledgment sign program should develop an acknowledgment sign policy. The policy should require that eligible sponsoring organizations comply with State laws prohibiting discrimination based on race, religion, color, age, sex, national origin, and other applicable laws. The acknowledgment sign policy should include all of the provisions regarding sign placement and sign design that are described in this Section.

Standard:

- ³ Because regulatory, warning, and guide signs have a higher priority, acknowledgment signs shall only be installed where adequate spacing is available between the acknowledgment sign and other higher priority signs. Acknowledgment signs shall not be installed in a position where they would obscure the road users' view of other traffic control devices.
- 4 Acknowledgment signs shall not be installed at any of the following locations:
 - A. On the front or back of, adjacent to, or around any other traffic control device, including traffic signs, highway traffic signals, and changeable message signs;
 - **B.** On the front or back of, adjacent to, or around the supports or structures of other traffic control devices, or bridge piers; or
 - C. At key decision points where a road user's attention is more appropriately focused on other traffic control devices, roadway geometry, or traffic conditions, including exit and entrance ramps, intersections, grade crossings, toll plazas, temporary traffic control zones, and areas of limited sight distance.

Guidance:

- 5 The minimum spacing between acknowledgment signs and any other traffic control signs, except parking regulation signs, should be:
 - A. 150 feet on roadways with speed limits of less than 30 mph,
 - B. 200 feet on roadways with speed limits of 30 to 45 mph, and
 - C. 500 feet on roadways with speed limits greater than 45 mph.
- ⁶ If the placement of a newly-installed higher-priority traffic control device, such as a higher-priority sign, a highway traffic signal, or a temporary traffic control device, conflicts with an existing acknowledgment sign, the acknowledgment sign should be relocated, covered, or removed.

Option:

⁷ State or local highway agencies may develop their own acknowledgment sign designs and may also use their own pictograph (see definition in Section 1A.13) and/or a brief jurisdiction-wide program slogan as part of any portion of

the acknowledgment sign, provided that the signs comply with the provisions for shape, color, and lettering style in this Chapter and in Chapter 2A.

Guidance:

8 Acknowledgment signs should clearly indicate the type of highway services provided by the sponsor.

Standard:

- ⁹ In addition to the general provisions for signs described in Chapter 2A and the sign design principles covered in the "Standard Highway Signs and Markings" book (see Section 1A.11), acknowledgment sign designs developed by State or local highway agencies shall comply with the following provisions:
 - A. Neither the sign design nor the sponsor acknowledgment logo shall contain any contact information, directions, slogans (other than a brief jurisdiction-wide program slogan, if used), telephone numbers, or Internet addresses, including domain names and uniform resource locators (URL);
 - **B.** Except for the lettering, if any, on the sponsor acknowledgment logo, all of the lettering shall be in upper-case letters as provided in the "Standard Highway Signs and Markings" book (see Section 1A.11);
 - C. In order to keep the main focus on the highway-related service and not on the sponsor acknowledgment logo, the area reserved for the sponsor acknowledgment logo shall not exceed 1/3 of the total area of the sign and shall be a maximum of 8 square feet, and shall not be located at the top of the sign;
 - D. The entire sign display area shall not exceed 24 square feet;
 - E. The sign shall not contain any messages, lights, symbols, or trademarks that resemble any official traffic control devices;
 - F. The sign shall not contain any external or internal illumination, light-emitting diodes, luminous tubing, fiber optics, luminescent panels, or other flashing, moving, or animated features; and
 - G. The sign shall not distract from official traffic control messages such as regulatory, warning, or guidance messages.

Support:

Examples of acknowledgment sign designs are shown in Figure 2H-5.

