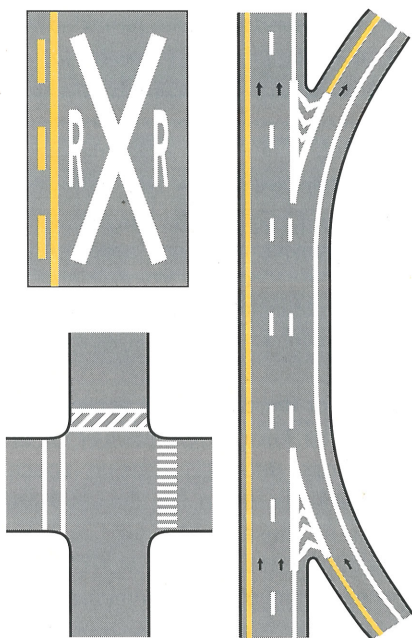


United States

Pavement Markings



U.S. Department of Transportation
Federal Highway Administration
Washington, DC 20590

Preface

Pavement markings are used to convey messages to roadway users. They indicate which part of the road to use, provide information about conditions ahead, and indicate where passing is allowed. Yellow lines separate traffic flowing in opposite directions. Drivers should stay to the right of yellow lines. A solid yellow line indicates that passing is prohibited. A dashed yellow line indicates that passing is allowed. White lines separate lanes for which travel is in the same direction. A double white line indicates that lane changes are prohibited. A single white line indicates that lane changes are discouraged. A dashed white line indicates that lane changes are allowed.

Symbols are used to indicate permitted lane usages. A diamond indicates a lane reserved for use by high-occupancy vehicles. A bicycle indicates a lane reserved for bicyclists. Arrows show required or permitted movements at intersections. A row of solid triangles indicates that the road user must yield.

Pavement markings are also used to alert road users to potentially hazardous conditions ahead. A letter X with a letter R on each side indicates a highway-rail grade crossing ahead. A hollow triangle indicates a yield ahead. A series of progressively wider lines across a lane indicates a speed hump ahead.

Standards for the design and application of pavement markings can be found in the *Manual on Uniform Traffic Control Devices (MUTCD)*. Design specifications for pavement markings are in the *Standard Highway Signs Book*. Both of these books are available online at <http://mutcd.fhwa.dot.gov>. The *MUTCD* is also available for purchase through the American Association of State Highway and Transportation Officials (<http://www.aashto.org>), the Institute of Transportation Engineers (<http://www.ite.org>), the American Traffic Safety Services Association (<http://www.atssa.com>), and the U.S. Government Printing Office (<http://www.gpo.gov>). The *Standard Highway Signs Book* can be purchased from the U.S. Government Printing Office and the American Traffic Safety Services Association.

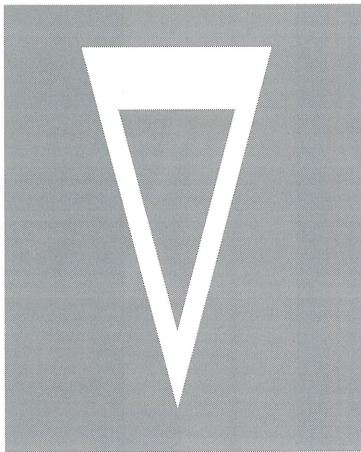


Prepared in 2002 by the
US Department of Transportation
Federal Highway Administration
Office of Transportation Operations

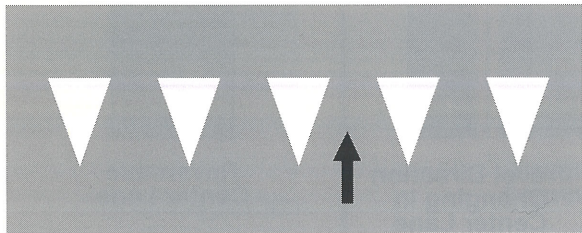
FHWA-OP-02-090

Yield Markings

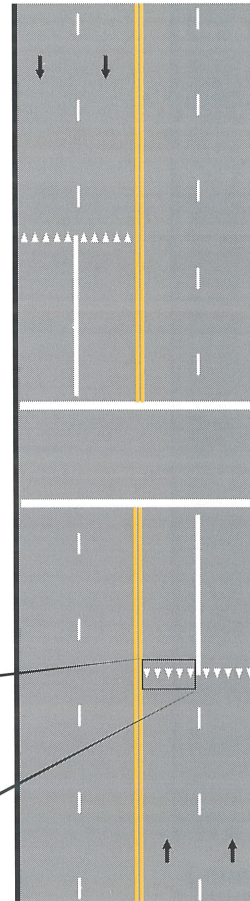
Yield Ahead



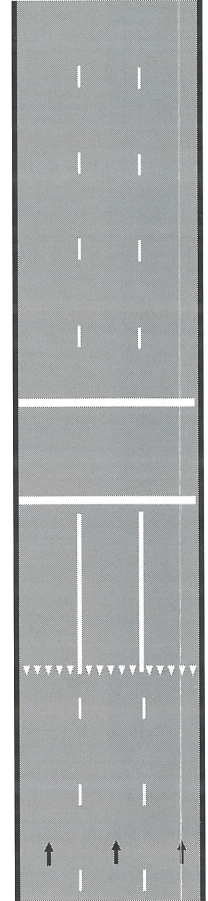
Yield Line



*Yield Lines at
Unsignalized
Crosswalk,
Two-Way Traffic*

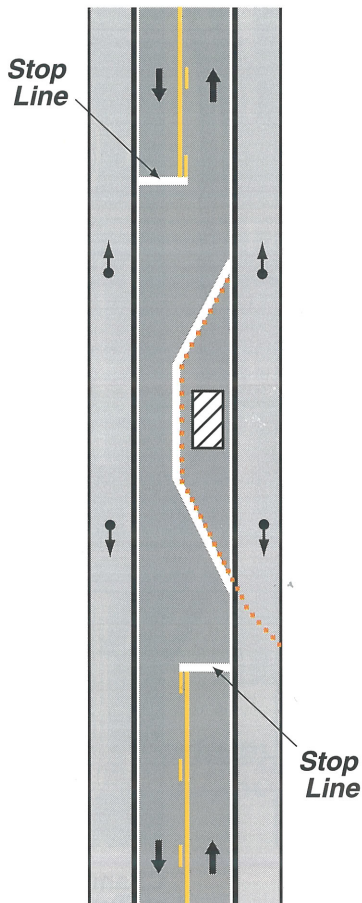


*Yield Lines at
Unsignalized
Crosswalk,
One-Way Traffic*

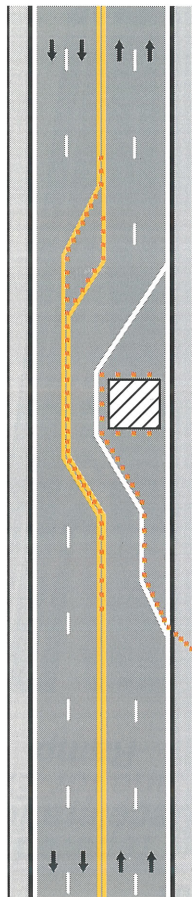


Work Zone Pavement Markings

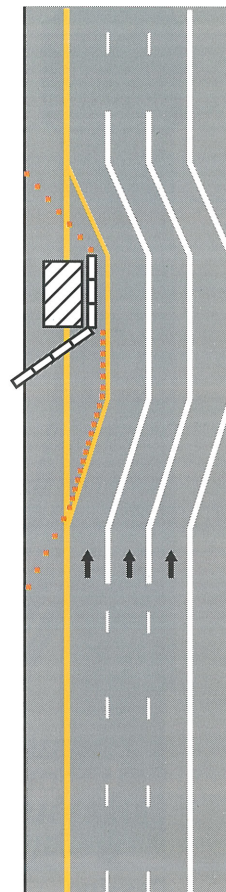
Lane Closure on Two-Lane Road Using Traffic Control Signal



Half Road Closure on Multi-Lane High Speed Highway



Lane Shift on Freeway



LEGEND

→ Direction of Traffic

■ Channelizing Device

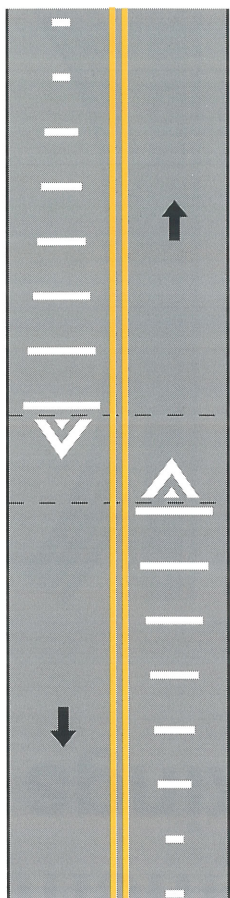
▭ Temporary Barrier

▨ Work Space

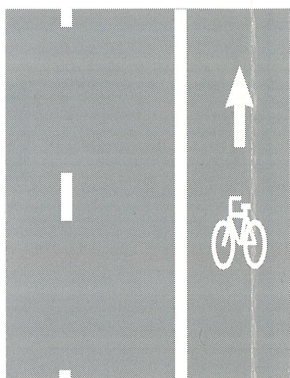
⬆⬇⬆ Traffic Signals

Miscellaneous Lane Markings

Speed Hump



Bike-Only Lane

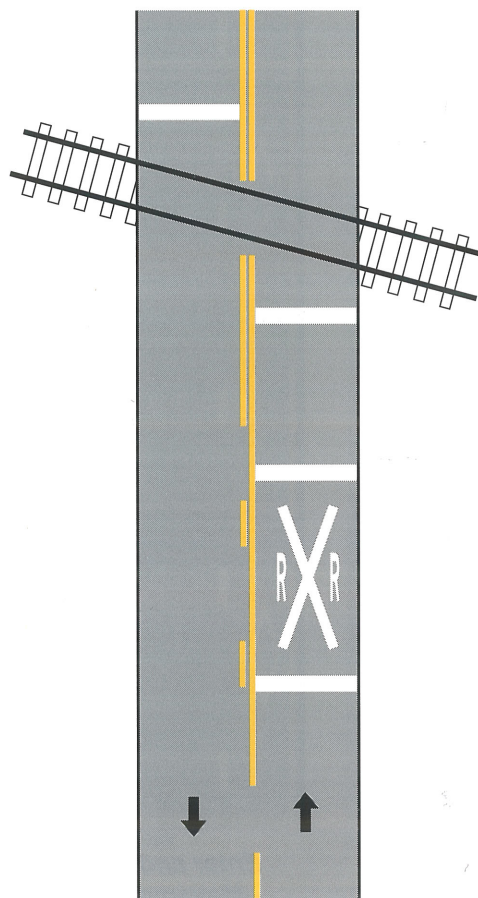


Bike Detector



*Indicates the optimum position for a bicyclist to activate traffic signal**

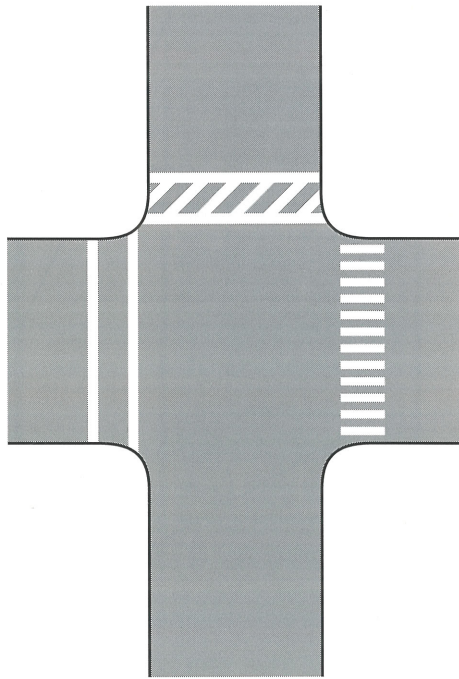
Highway-Rail Grade Crossing



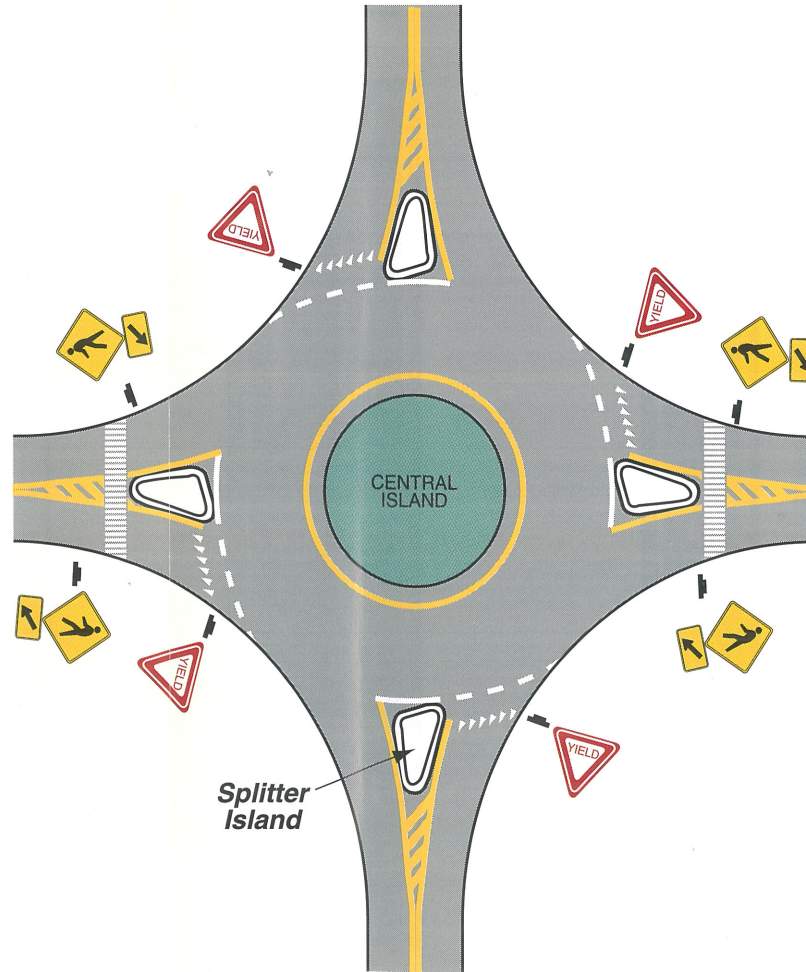
* This marking was anticipated for inclusion in the 2003 edition of the MUTCD at the time of this printing.

Intersection Markings

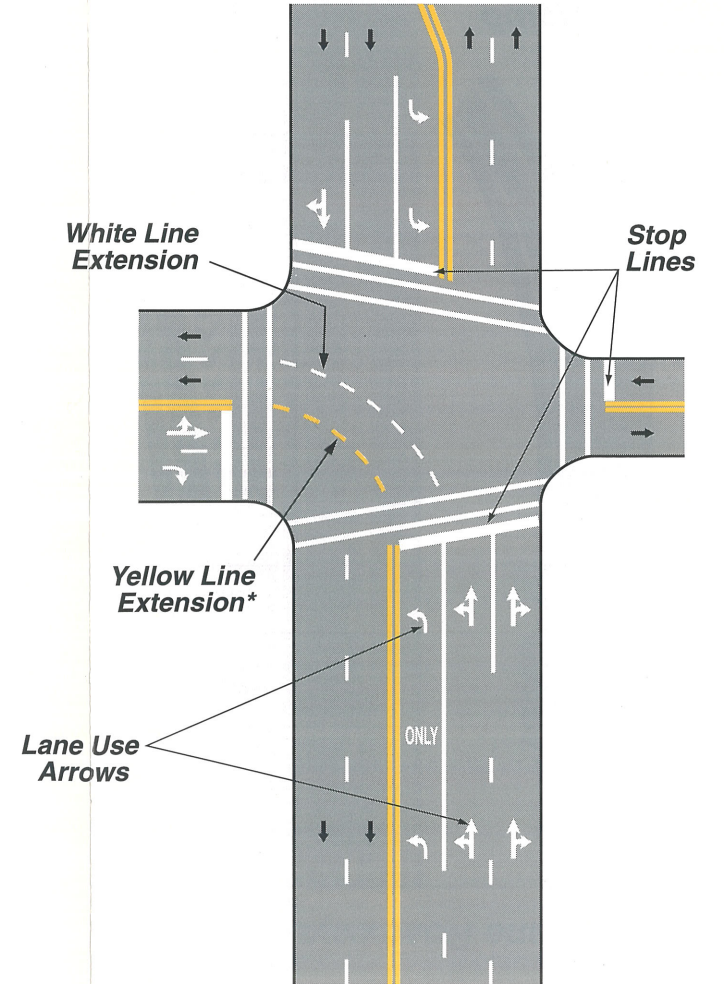
Pedestrian Crosswalk



Roundabout



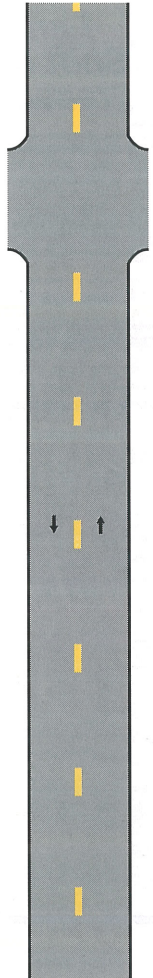
Signalized Intersection



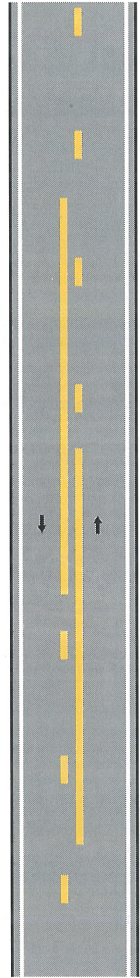
* This marking was anticipated for inclusion in the 2003 edition of the MUTCD at the time of this printing.

Two-Way Traffic Markings

Two-Lane Roadways

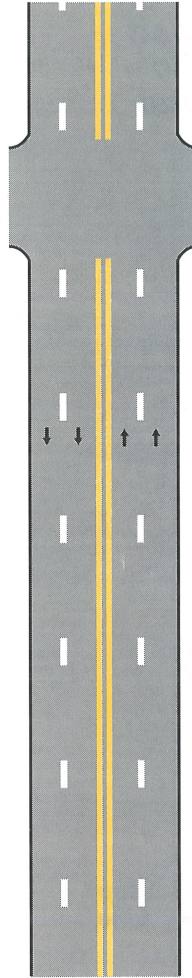


Passing Permitted

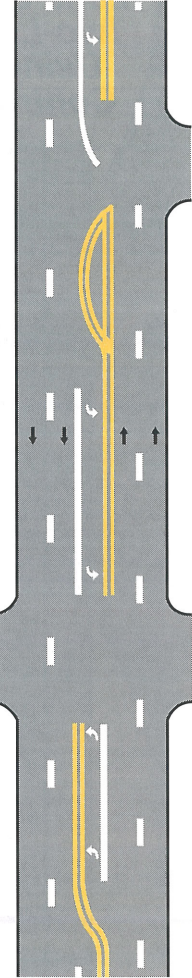


No Passing Zones and Edge Lines

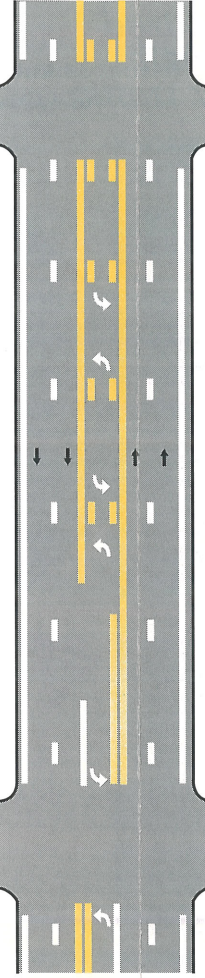
Multi-Lane Roadways



Without Left Turn Lanes

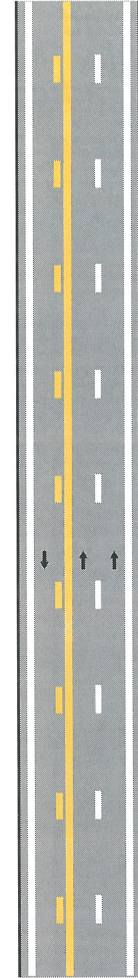


Channelized Left Turn Lanes

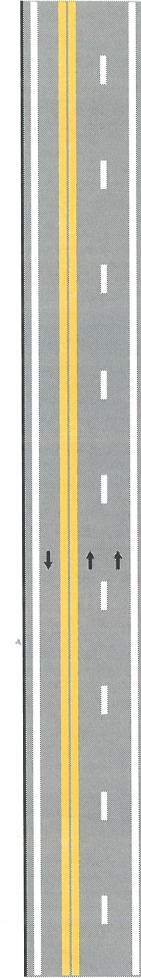


Two-Way Left Turn Lane in Center

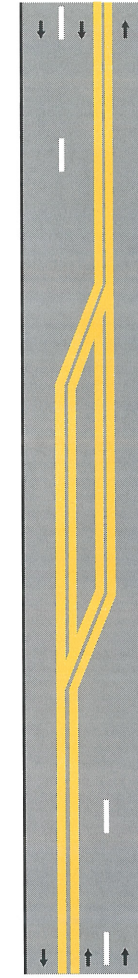
Three-Lane Roadways



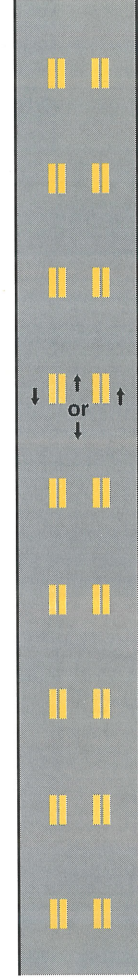
Passing Permitted in Direction Having Single Lane



Passing Prohibited in Direction Having Single Lane



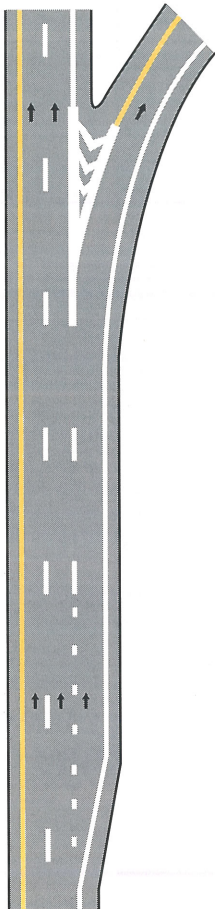
Travel Direction Changing in Center Lane



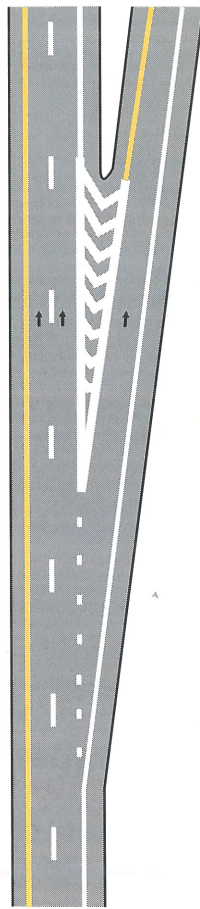
Reversible Center Lane

Freeway Entrance and Exit Markings

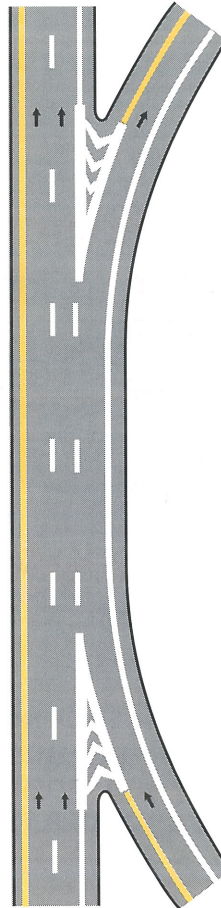
**Parallel
Deceleration
Lane for Exit
Ramp**



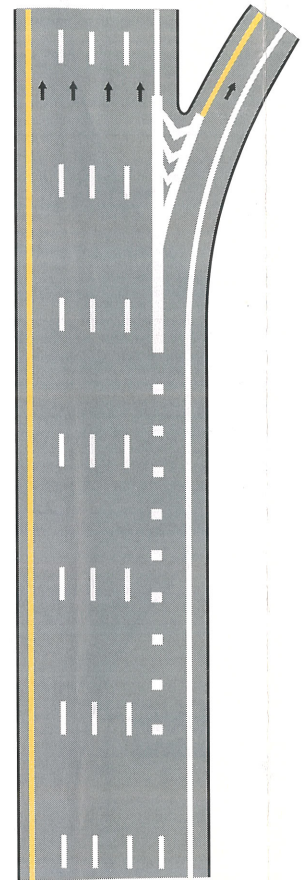
**Tapered
Deceleration
Lane for Exit
Ramp**



**Cloverleaf
Ramps**



**Exit-Only
Lane at
Exit Ramp**



HOV Lane Markings

