

Managed Lanes

Freeway lanes where operational strategies are implemented, or exclusive access is provided, based on vehicle occupancy or tolling.



PICTURED: PHOTO TAKEN OVER INTERSTATE 91 IN CONNECTICUT PAUL, WIKIMEDIA COMMONS

TRANSPORTATION NEEDS ADDRESSED

- CAPACITY & DEMAND
- TRAVEL TIME
- RELIABILITY
- MOBILITY
- ECONOMIC DEVELOPMENT
- ENVIRONMENTAL IMPACT
- ACCESS

COST MAGNITUDE

- CAPITAL COST
- OPERATION AND MAINTENANCE COST

WHEN TO CONSIDER THIS STRATEGY

- FREEWAY OR EXPRESSWAY CORRIDORS WITH RECURRING CONGESTION
- FREEWAY OR EXPRESSWAY CORRIDORS WITH HIGH THROUGH TRAFFIC VOLUMES
- USE OF TOLLING AS A FINANCING MECHANISM FOR IMPROVING DEMAND AND CAPACITY

COMPLIMENTARY STRATEGIES

- DYNAMIC LANE USE CONTROL
- DYNAMIC LANE REVERSAL
- HARD SHOULDER RUNNING
- CONGESTION PRICING
- BUS ON SHOULDER
- ELECTRONIC PAYMENT / TOLL COLLECTION
- INTEGRATED CORRIDOR MANAGEMENT
- TRAVELER INFORMATION

HOW WILL THIS HELP?

- Improving travel time reliability by bypassing bottlenecks in the general use lanes.
- Express lanes improve safety by reducing weaving and conflicts between express and local traffic.
- Tolling managed lanes can also be a financial tool for other operational and capacity improvement projects.

HOW DOES IT WORK?

- High-occupancy vehicle (HOV) lanes are restricted to vehicles carrying a minimum number of people.
- High-occupancy toll (HOT) lanes allow single-occupancy vehicles to use HOV lanes in exchange for a toll.
- Express lanes enhance through traffic mobility by restricting access and separating through traffic from local traffic.
- Tolling provides roadway access and capacity to users willing to pay a cost.

CONSIDERATIONS

- + ENSURE SIGNAGE IS PROVIDED IN ADVANCE OF THE DRIVER'S DECISION POINT.
- + ENFORCEMENT REQUIRES LOCATIONS WITH WIDENED SHOULDERS.
- + PUBLIC AWARENESS AND TOLL SOFTWARE
- + REQUIRES TRANSPORTATION AGENCY COLLABORATION WITH LAW ENFORCEMENT, WHICH MONITORS COMPLIANCE WITH HOV AND HOT LANE RULES.
- + TOOLS NECESSARY FOR IMPLEMENTATION:
 - DYNAMIC MESSAGE SIGNS TO COMMUNICATE LANE CRITERIA TO MOTORISTS.