





1

































Ramp Metering

Description

The use of traffic signals installed on freeway on-ramps balance demand and capacity, maintain optimal operations, and improve safety. On-ramp traffic is metered based on mainline speeds, volumes, and density and ramp conditions. Ramp signals can be roadside or overhead.







On-Ramp Disruption Example

Location: 73rd Street onto EB I-235 • Example of on-ramp platoon disrupting freeway flow



On-Ramp Disruption Example









Dynamic Shoulder Use

Description The use of electronic signs to dynamically utilize the roadway shoulder as a travel lane during certain periods of time. These periods may be fixed or variable based on congestion, incidents, or other conditions. The shoulder use may be restricted to certain types of vehicles (transit) or open to all traffic.



Queue Warning

Description The use of electronic signs to warn drivers of slowing and/or stopped vehicles ahead. The signs can be portable/temporary or fixed/permanent depending on the need (temporary construction versus recurring congestion). Dependent on the roadway configuration, signs can be roadside or overhead. Queue warning is often implemented with lane use control and/or dynamic speed advisories.









- Traffic Signal Controls
- Infrastructure Enhancements
- Transportation Demand Management

CIOWADOT

















