

HOV-to-HOT Scenario

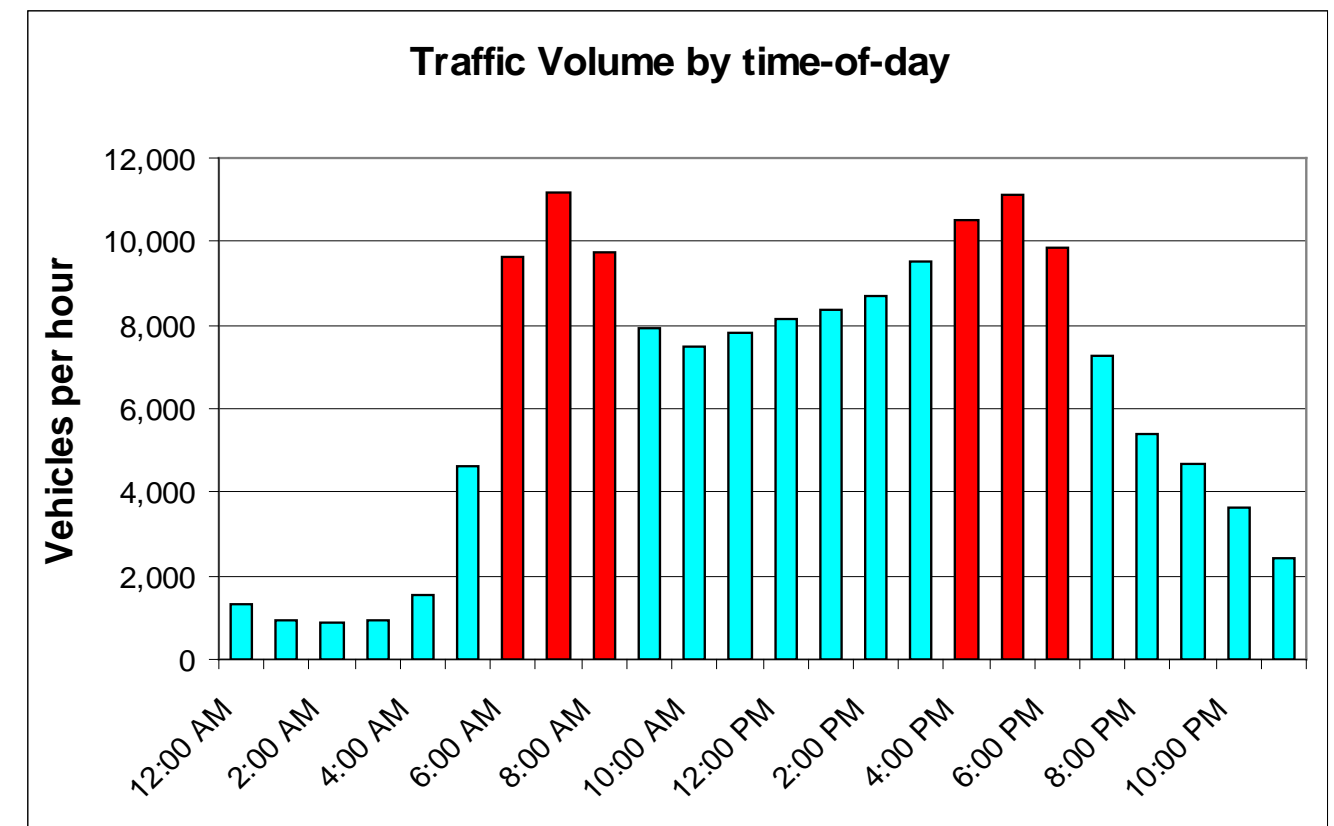
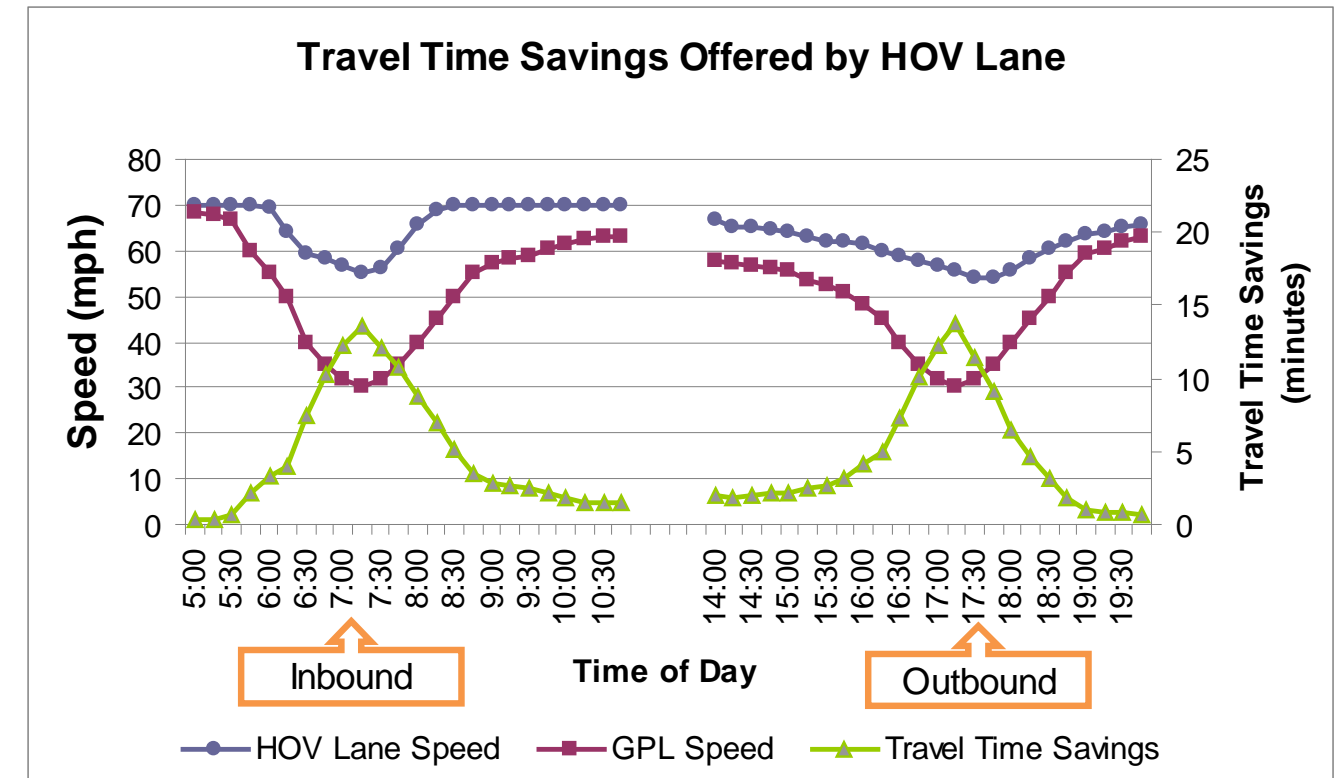
A radial corridor connecting suburban communities with a downtown employment center is experiencing rapid development and growing congestion. There is no immediate funding for expansion of the facility. One response that has been proposed is to convert the existing HOV lanes to HOT. The area has a fairly long history of tolling.

General Purpose Lanes

- **Facility Characteristics**
 - Length: 15 miles
 - 6 lanes with full shoulders
 - 165,000 AADT and growing
 - Peak period speeds as low as 30mph
- **Competing Facilities**
 - Arterial serves suburban community at the end of the study corridor
 - Nearby radial freeway to be expanded in the near future

HOV Lanes

- **Facility Characteristics**
 - 2 lanes
 - Buffer separated
- **Traffic Characteristics**
 - Peak volumes 800-1000 vehicles per hour
 - Peak period speed 65 mph
- **Transit**
 - Serves entire corridor
 - 2 Park and Ride lots





Competing Radial Freeway
 Currently 4 lanes, very congested, to be expanded to 6 lanes in the future

Suburban Community
 Population 40,000
 \$40k median income
 40% minorities
 1.3 autos per household

Transit Service
 Peak TT: 15-20 min  Peak TT: 25-30 min

Suburban Community
 Population 20,000
 \$75k median income
 20% minorities
 1.9 autos per household



Freeway Travel Time to Downtown
 GPL Peak: 12-16 min
 HOV Peak: 7-10 min



Freeway Travel Time to Downtown
 GPL Peak: 20-30 min
 HOV Peak: 13-16 min

Park and Ride

Park and Ride

8 miles

Radial Freeway
 8 lanes (2 HOV)
 Length: 15 miles
 165,000 AADT

Competing Arterial
 Length: 20 miles
 Peak TT: 25-45 min



Total Traveled Population: 200,000
 \$50k median income
 30% minorities
 1.5 autos per household

