

## WHY ARE BIKE LANES PROPOSED WITH BRT?

The Oakland Bicycle Master Plan recommends that bike lanes be installed on Telegraph Avenue and along International Boulevard, east of 54<sup>th</sup> Avenue. These lanes were considered in the context of the overall transportation system with the EBRT Project. Through the analysis, it was determined that the bike lanes would provide substantial benefit to auto drivers, pedestrians, and bicyclists; at the expense of on-street parking in many areas. The table to the right summarizes the parking implications with and without bike lanes.

The parking supply changes to the right are predicated on 11-foot lane widths adjacent to 7-foot parking areas. This configuration is generally used only in highly constrained corridors. Refer to the images below for sample configurations.

Although bike lanes are commonly understood to benefit bicyclists, they also provide substantial safety benefits to motorists and pedestrians, and can improve efficiency and mobility for all road users.

### The Key Benefits of bike lanes include:

- ✓ Each mode (vehicles, buses, bicycles and pedestrians) has a dedicated space to travel in, reducing conflicts and aggravation
- ✓ Drivers can travel at their desired speed without being slowed by bicyclists. Likewise, bicyclists can travel more comfortably at a slower speed
- ✓ Emergency, delivery and ADA vehicles can double-park or load/unload without interrupting traffic flow

The information in the following table provides greater detail on these benefits and others.

PARKING IMPLICATIONS WITH FUTURE BRT (TELEGRAPH AVENUE)	
Existing Conditions	711 on-street parking spaces
Future BRT Project <i>without</i> Bike Lanes	457 on-street parking spaces
Future BRT Project <i>with</i> Bike Lanes	324 on-street parking spaces

PARKING IMPLICATIONS WITH FUTURE BRT (INTERNATIONAL BOULEVARD)	
Existing Conditions	677 on-street parking spaces
Future BRT Project <i>without</i> Bike Lanes	516 on-street parking spaces
Future BRT Project <i>with</i> Bike Lanes	418 on-street parking spaces



12-foot lane adjacent to 8-foot parking



10-foot lane adjacent to 5-foot bike lane

## SAFETY AND MOBILITY BENEFITS OF BIKE LANES

### Drivers

- Reduces aggravation between motorists and bicyclists, who travel at different speeds
- Contributes to driving ease because drivers have greater visibility and maneuverability
- Allows drivers to drive at their own pace, without being slowed by bicyclists
- Reduces passing conflicts between vehicles and bicyclists
- Accommodates driver error by separating parked vehicles and sidewalks from the travel lane
- Provides increased sight distance for drivers turning to and from the street
- Provides space for disabled (or double parked/loading) vehicles
- Allows drivers to pass disabled (or double parked/loading) vehicles
- Provides lateral clearance to signs, poles, and other objects on the sidewalk
- Provides greater effective turning radius for autos and trucks turning to and from side streets
- Reduces wrong way bike riding, a source frustration for drivers
- Provides space for parallel parking maneuvers to occur largely clear of the travel lane for autos

### Pedestrians

- Bike lanes provide a buffer between moving vehicular traffic and sidewalk areas, increasing pedestrian comfort and safety
- Makes pedestrians crossing the street more visible to drivers by increasing sight-lines for both pedestrians and drivers at intersections
- May reduce bicycle riding on sidewalks and other pedestrian zones
- Reduces wrong way bike riding, a source frustration for pedestrians

### Other Benefits

- Provides for storm water discharge further from the travel lanes, reducing spray to nearby pedestrians and bicyclists
- Delivery vehicles (including postal service) have a place to stop out of the traffic stream
- Emergency vehicles have more room to maneuver around stopped traffic, reducing response time

### Bicyclists

- Bike lanes provide a dedicated space for bicyclists, reducing bike-auto vehicle conflicts
- Bike lanes can reduce sidewalk bicycle riding by encouraging bicyclists to ride in the street
- Bike lanes reduce wrong way bike riding, a source of frustration for drivers and pedestrians
- Encourages bicyclists to ride in the right direction with the flow of traffic
- Reduces aggravation and stress for bicyclists, particularly for those with less experience
- Allows bicyclist to travel at their own pace, even when auto traffic is congested