

BROAD STREET RAPID TRANSIT STUDY

Alternatives Analysis / Environmental Assessment

Presentation to Commonwealth
Transportation Board

February 2010

- Project Overview
- Purpose and Need
- Initial Alternatives
- Public and Agency Outreach
- Next Steps



- Alternatives Analysis and Environmental Assessment focusing on 7-mile portion of Broad Street between Willow Grove and Rocketts Landing
 - ▣ **Highest volume** corridor in GRTC network
 - ▣ Broad Street BRT recommended by **three significant recent studies**
 - GRTC Comprehensive Operations Analysis (GRTC, 2008)
 - Richmond Regional Mass Transit Study (DRPT and Richmond Regional MPO, 2008)
 - City of Richmond Downtown Master Plan (City of Richmond, 2008)
- Study required for federal funding through FTA's **Small Starts Program**



Purpose

- To identify a package of improvements that will provide **rapid, reliable transit service** to increase overall mobility and serve existing patterns of **transit-oriented development and redevelopment** in the corridor



Need

- To improve **local** and **regional mobility**
- To support **livable, transit-oriented** development
- To provide **attractive transportation choices**
- To **enhance the environment**

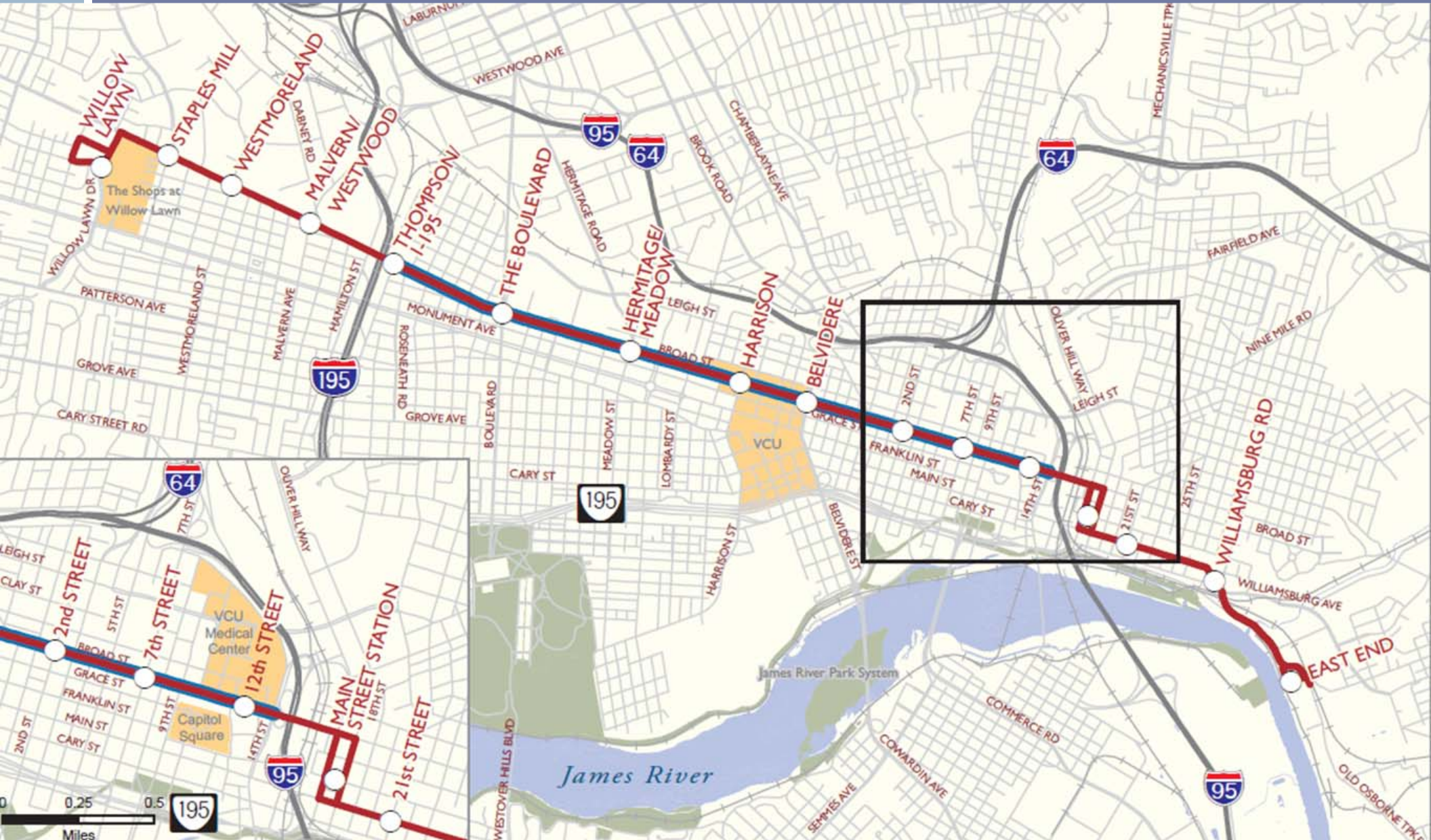


Initial Alternatives

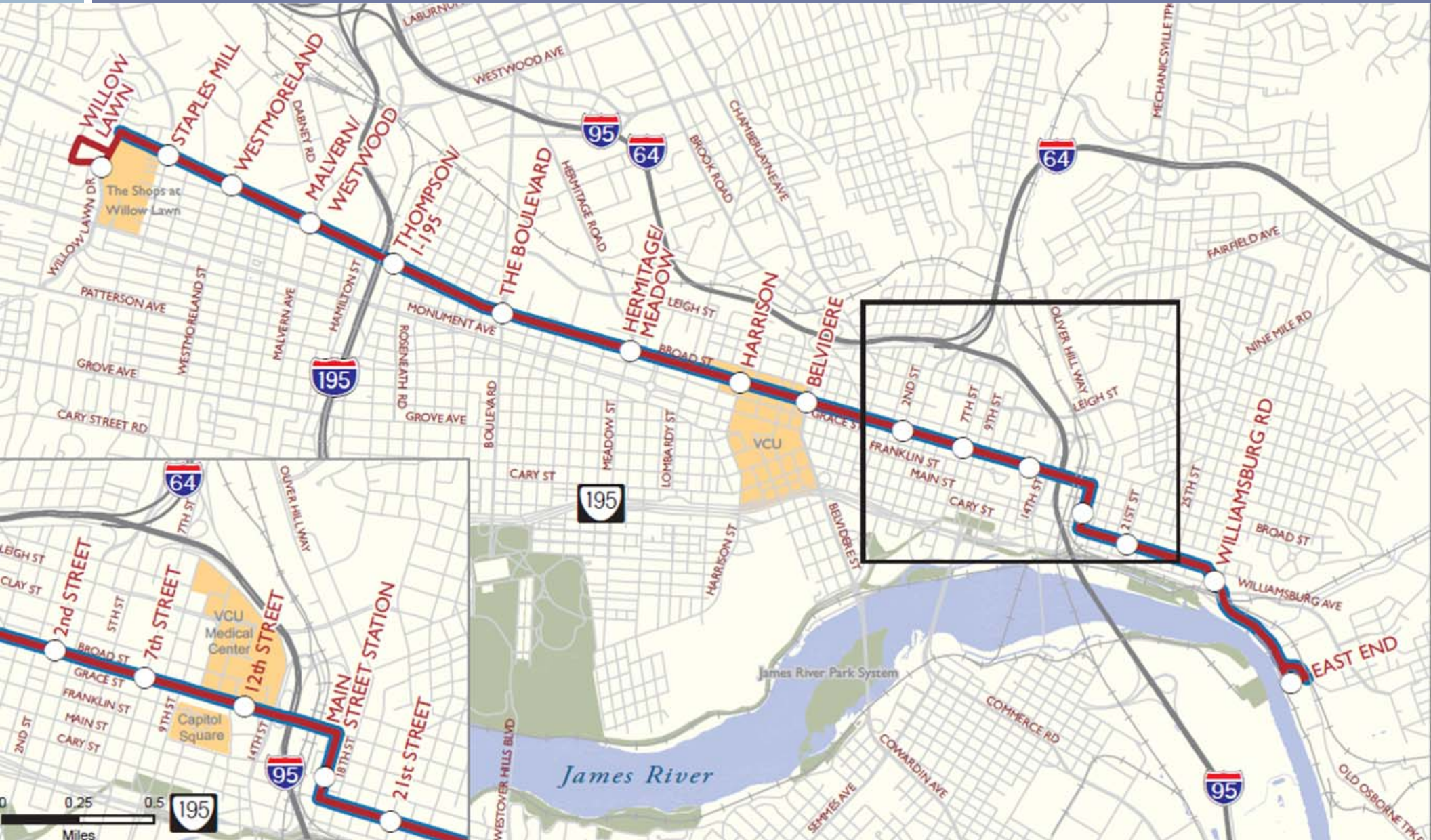
Route Length (mi.)
Miles of Dedicated Bus Lanes
Number of Stations
Peak/Off-Peak Frequency (min.)
Hours of Operation
Network Changes and Feeder Services
Fare Collection
Vehicles
Intelligent Transportation Systems
Branding

No-Build Alternative	Baseline Alternative	Build Alternatives	
		Built Alternative 1	Built Alternative 2
n/a		7.6	
0.75	0.75	3.4	6.7
Existing Local Stops		16	
n/a		10/15	
	Weekdays: 5:30 AM – 11:30 PM Weekends: 6:00 AM – 11:30 PM		
None	Comprehensive Operations Analysis Phase I and Phase II Recommendations		
On-Board (Cash, Go Cards)		Off-Board Proof of Purchase (BRT Tickets)	
Existing GRTC Vehicles		Dedicated BRT Vehicles	
Existing Traffic Control Systems	Signal Priority at Intersections along Bus Lanes		
None	Stations Only	Stations, Vehicles, Guideway, Signage, Marketing	

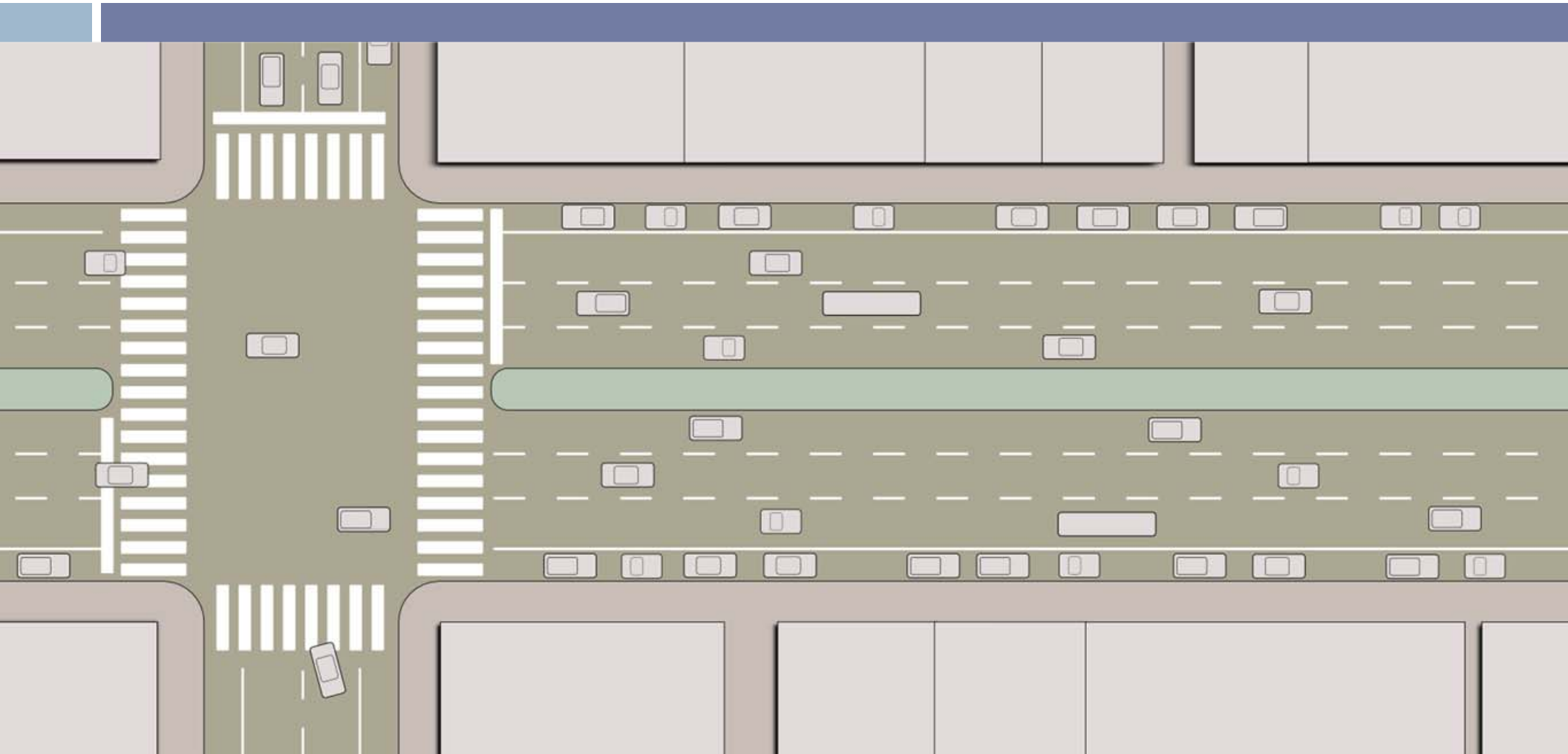
Build Alternative 1



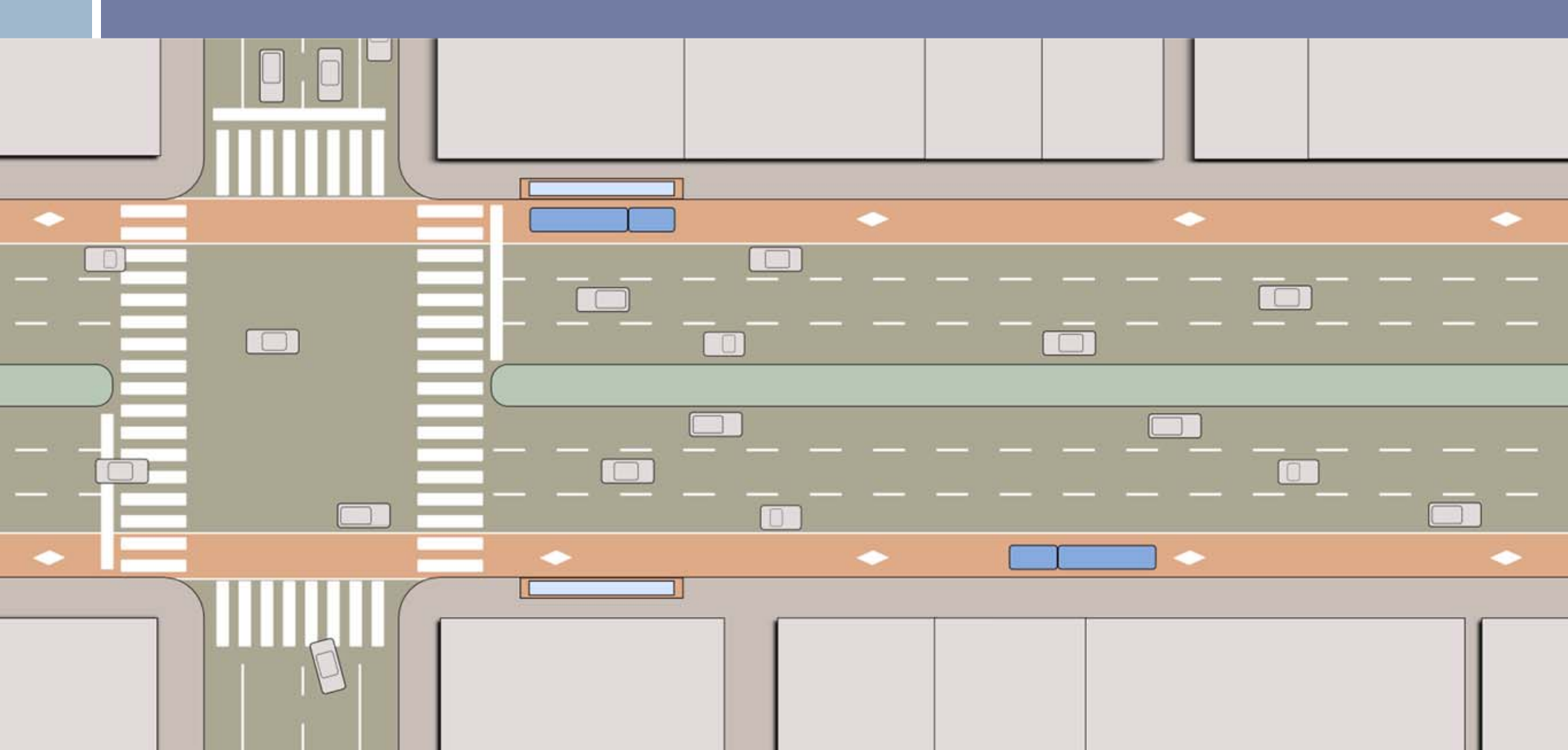
Build Alternative 2



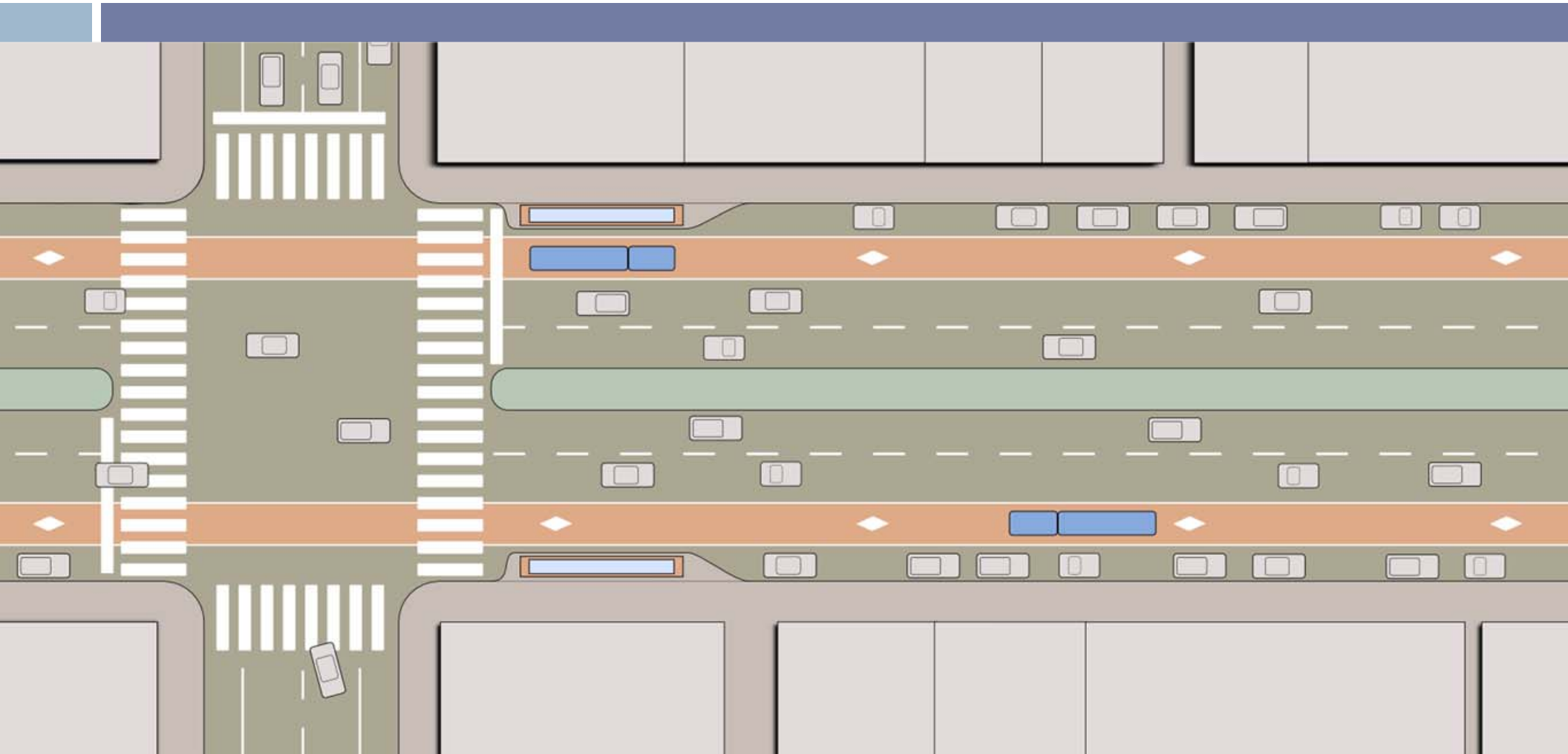
Existing Conditions



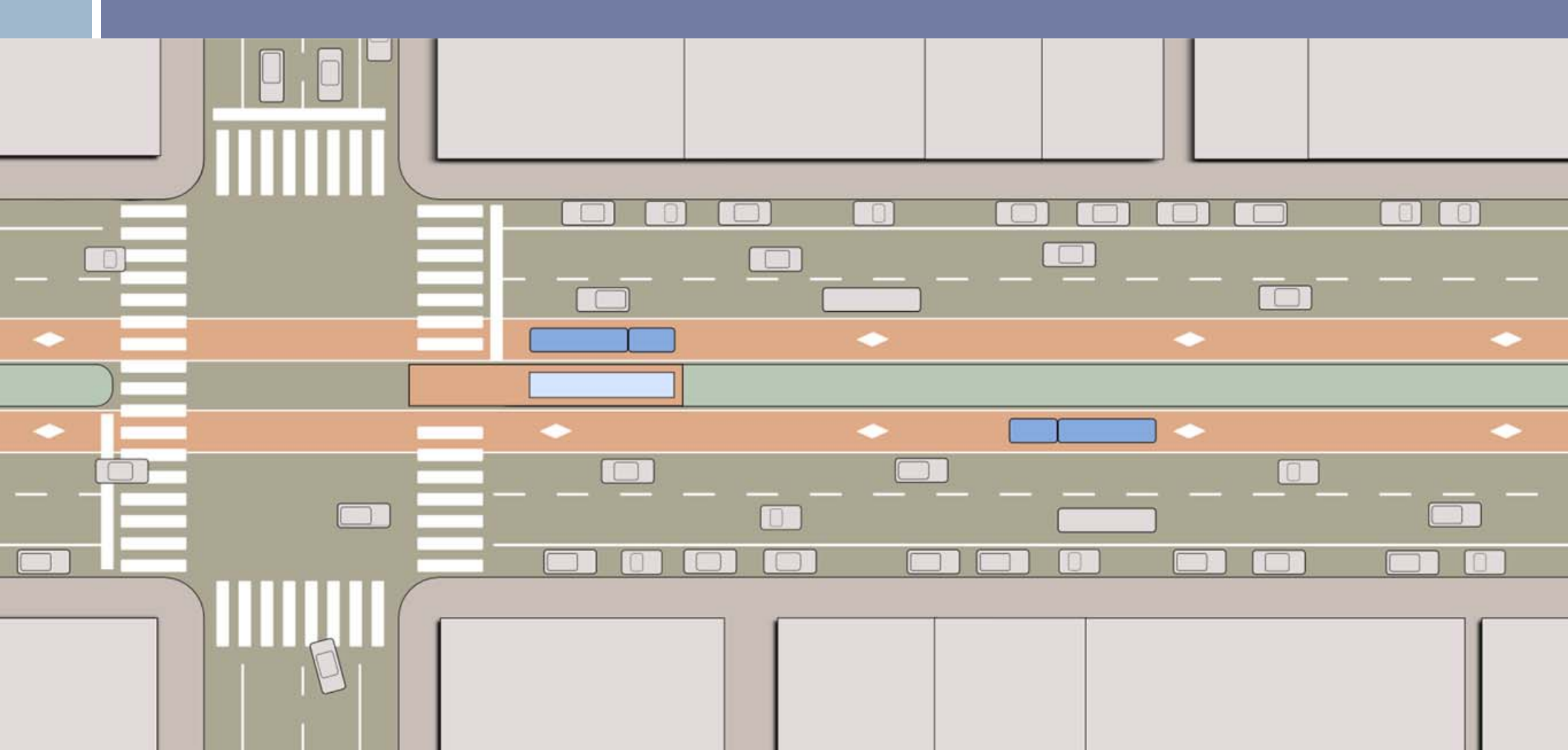
Curb Lane



Curb Lane w/ Parking



Median Lane



- Technical Advisory Committee (TAC) and Policy Advisory Committee (PAC)
 - ▣ Comprised of representatives of interested agencies and organizations
 - ▣ Meetings in October, January and February; coordination ongoing
- Public Meetings February 24th and 25th
 - ▣ Introduce to the study process
 - ▣ Present the Purpose and Need
 - ▣ Explain components of BRT
 - ▣ Describe initial alternatives



- Initial Screening of Alternatives
 - ▣ Utilizing recently completed Evaluation Methodology
 - ▣ Incorporating TAC, PAC and public input
- Detailed Definition of Alternatives
 - ▣ Refines alternative concepts retained during initial screening
 - ▣ Needed for detailed study of traffic conditions and environmental impacts

- Thank you
- Discussion and Questions