



**Smart Growth America**  
Making Neighborhoods Great Together

# Understanding & Overcoming Challenges

- Typical sources of conflict and obstacles
- Managing priorities and competing interests
- Corridor design and management considerations
- Dealing with design conflicts

# Typical Sources of Conflict and Obstacles

## Frequent challenges in transit decision-making

- ***Philosophical:*** Public transportation is evolving from a needs based “social service” to an “value-added investment,” but the transition is slow and far from complete
- ***Modal:*** There is a lack of consensus within the public transportation community - let alone within the transportation community - regarding the appropriate use of various transit solutions
- ***Technical:*** Design guidelines and standards are often unique to a particular; there is limited “standardization” among systems

# Typical Sources of Conflict and Obstacles

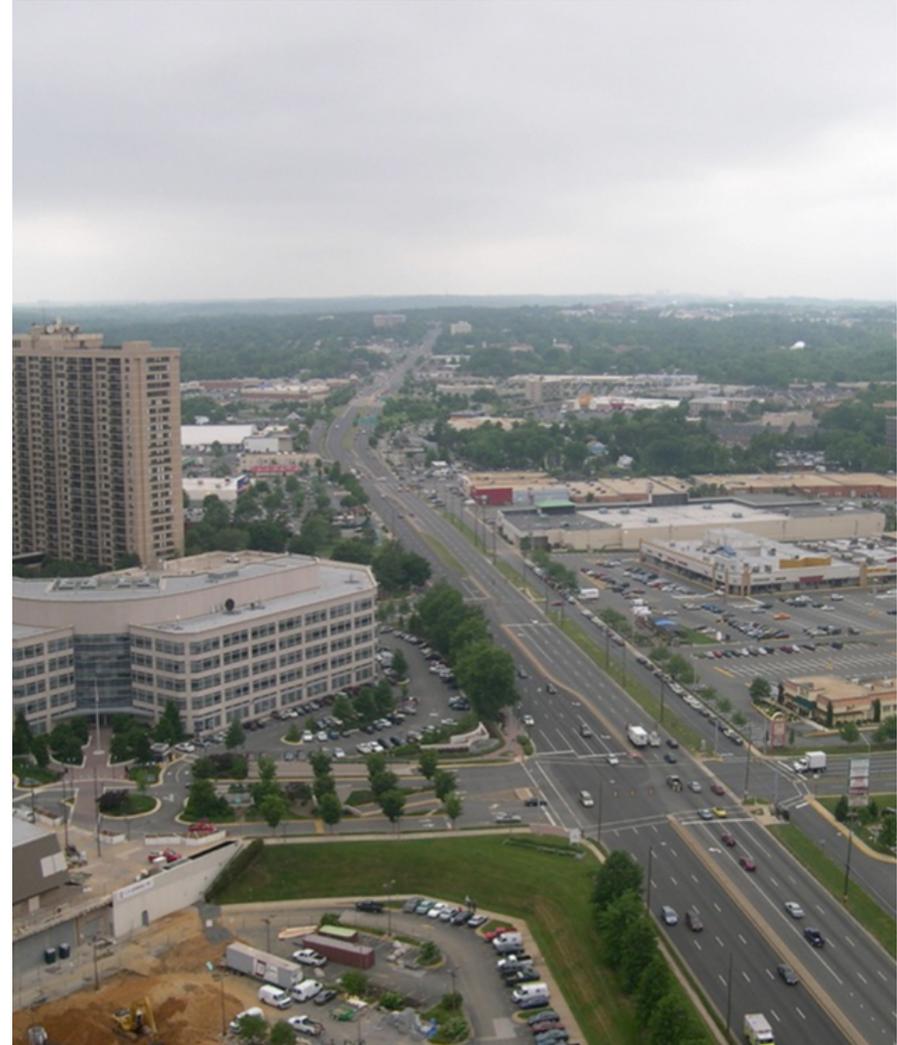
## Frequent challenges in transit decision-making

- **Community:** Often it is unclear who really benefits from the services, who might be adversely affected and if the trade-offs are “worth it” (particularly true in communities with limited services or experience with transit)
- **Environment:** Managing the level of detail required to make a decision is challenging as there is a lot of “gray” area in the FTA process compared to other infrastructure
- **Financial:** Transit funding relies on many sources and often takes a long time to put together, adding even more uncertainty to the often painful question of who pays and who gains, and when

# Corridor Considerations

## Discussion Topics

- Multi-Modal Corridors
- Transit and Active Transportation Considerations
- Example – Medical Center Access Scenario



# Corridor Considerations

## What is a Multi-Modal Corridor?

“A broad geographic band ...  
connecting population and employment centers...  
served by various transportation modes...”

Corridors include

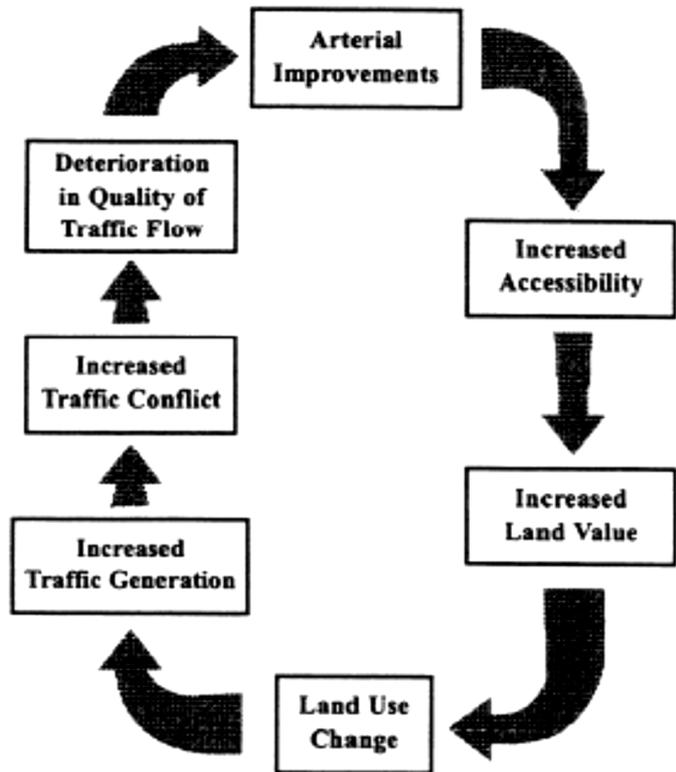
- a stretch of roadway,
- Its right-of-way (including utilities, drainage, traffic control devices, and parallel sidewalks or pathways),
- adjacent land use development, and
- community aesthetic features

In many cases, it will be appropriate to also include one or more parallel roadways and/or rail lines.



# Corridor Considerations

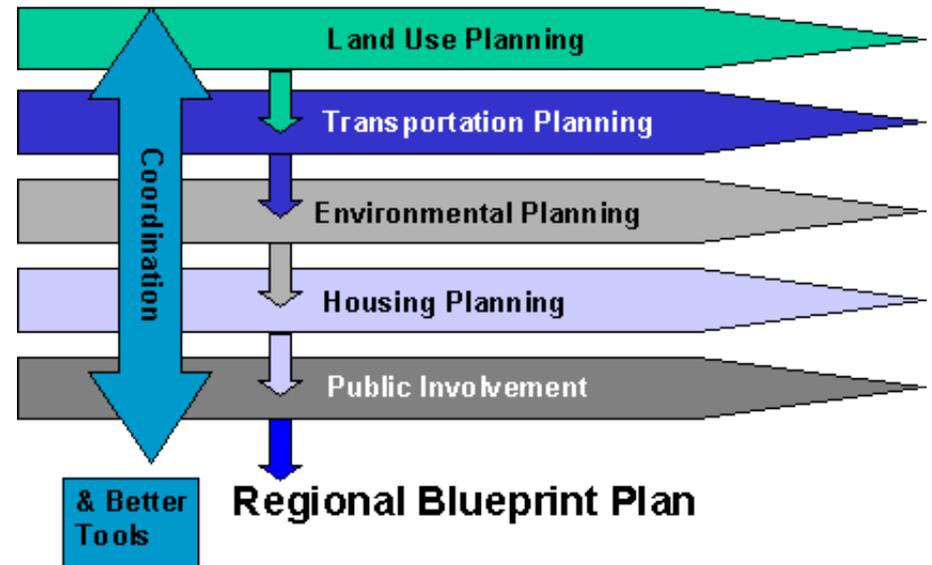
Past:



The Transportation Land Use Cycle

Source: National Highway Institute, Course 15255, FHWA, 1998, p. 1-18.

Present:



# Corridor Considerations

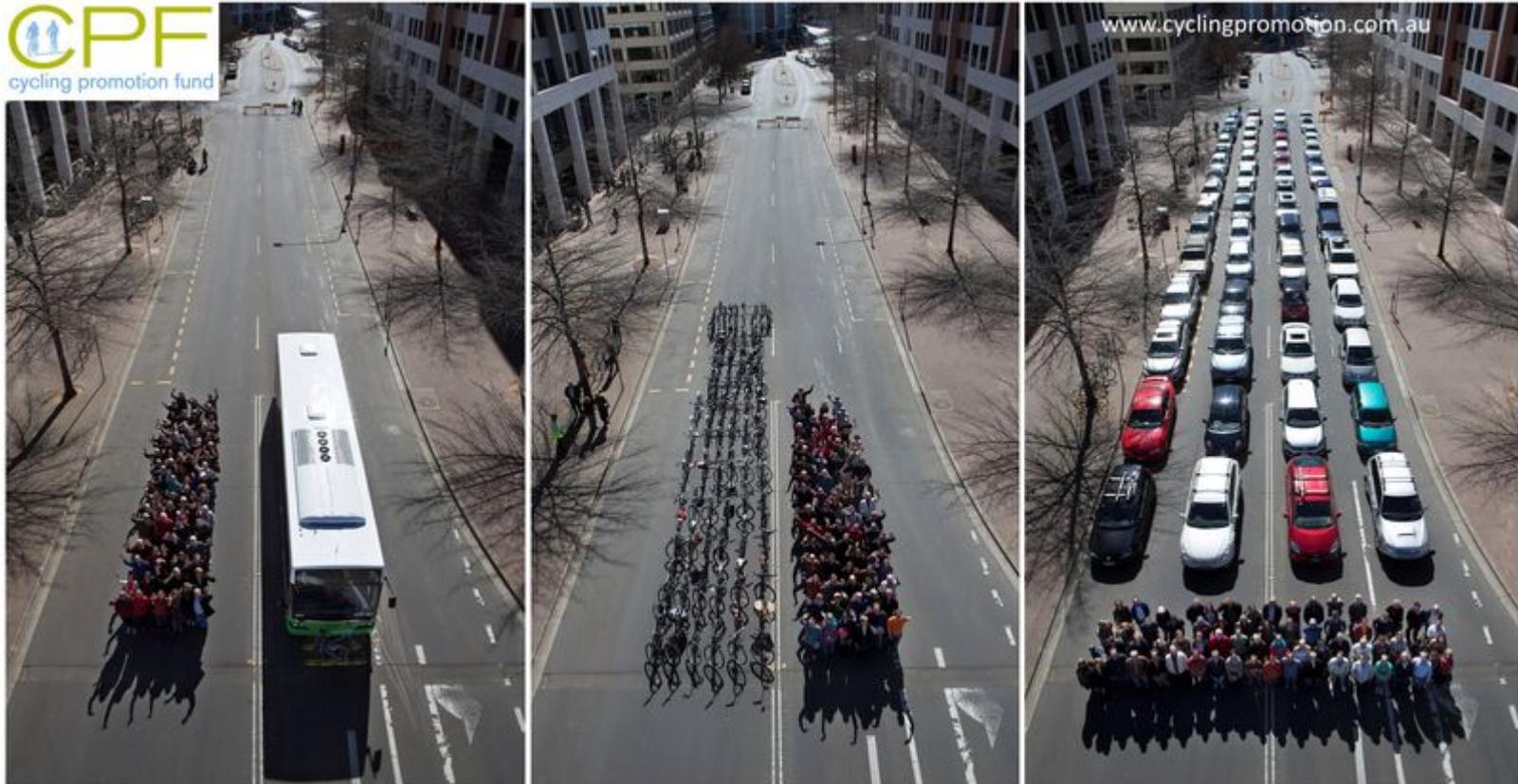
Future (?) :

## TMC Reconfiguration



# Corridor Considerations

## Why Transit and Active Transportation Matter



# Corridor Considerations

## Existing Doctrine and Programs - Where does Transit fit in?

- Florida's Future Corridors
- Complete Streets Policy
- Florida Green Book?

- Where else?



# Corridor Considerations

## Draft Florida Green Book:

There are many demands that tend to conflict with the development of safe and efficient streets and highways.

Meeting the demand for access can frequently destroy the capacity of a roadway.

Pressure to limit the amount of land dedicated for streets and highways inhibits the construction of an adequate road system....

# Corridor Considerations

## Draft Florida Green Book: Bicycle Facilities

All new roadways and major corridor improvements, except limited access highways, should be designed and constructed under the assumption they will be used by bicyclists. Roadway conditions should be favorable for bicycling.

# Corridor Considerations

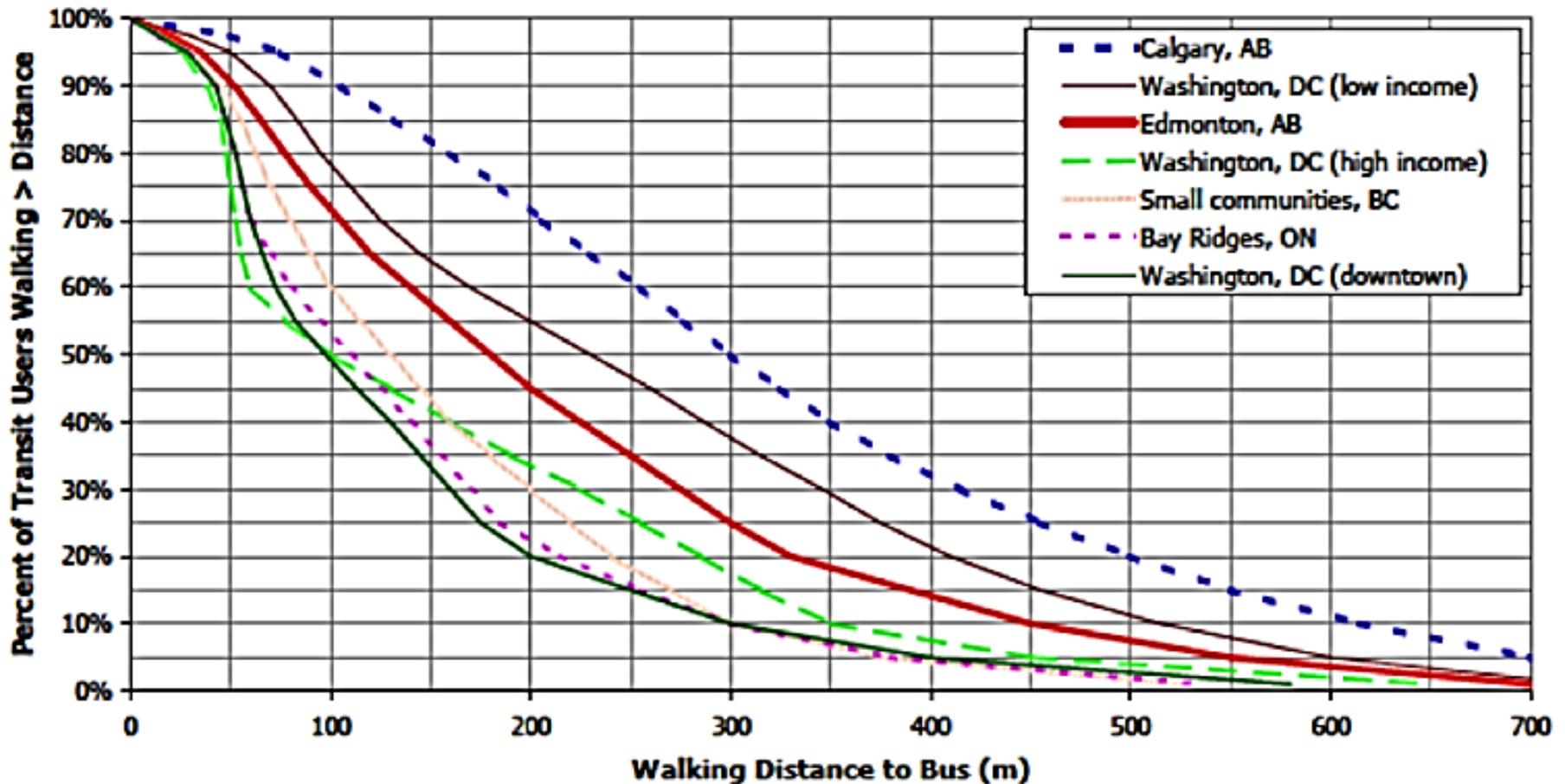
## Draft Florida Green Book:

### Pedestrian Facilities

The planning and design of new streets and highways shall include provisions that minimize vehicle-pedestrian conflicts. These include:

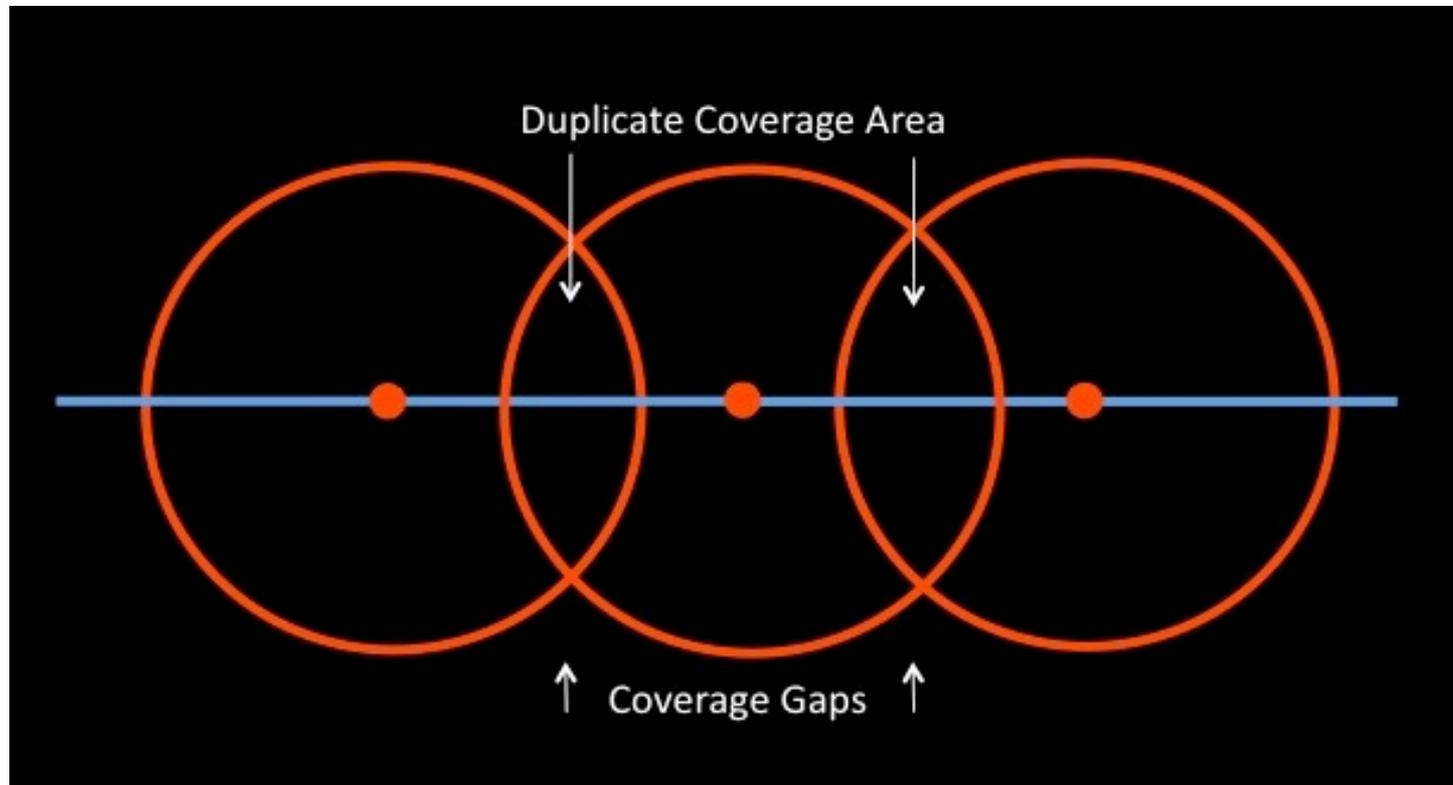
- Sidewalks and/or shared use paths parallel to the roadway
- Marked pedestrian crossings
- Detectable warnings at roadway and major driveway connections
- Raised median or refuge islands
- Pedestrian signal features such as walk lights and push buttons
- Transit stops and shelters
- Commuter and light rail
- Bus rapid transit (BRT)

# Corridor Considerations



# Corridor Considerations

Is it better to minimize or maximize duplicate coverage area?



# Corridor Considerations

At what point do pedestrians stop being highway customers and start being transit customers?



# Corridor Considerations

**Throughout the entire process, coordination with transit as if it were a utility is essential.**

- Draft Florida Green Book

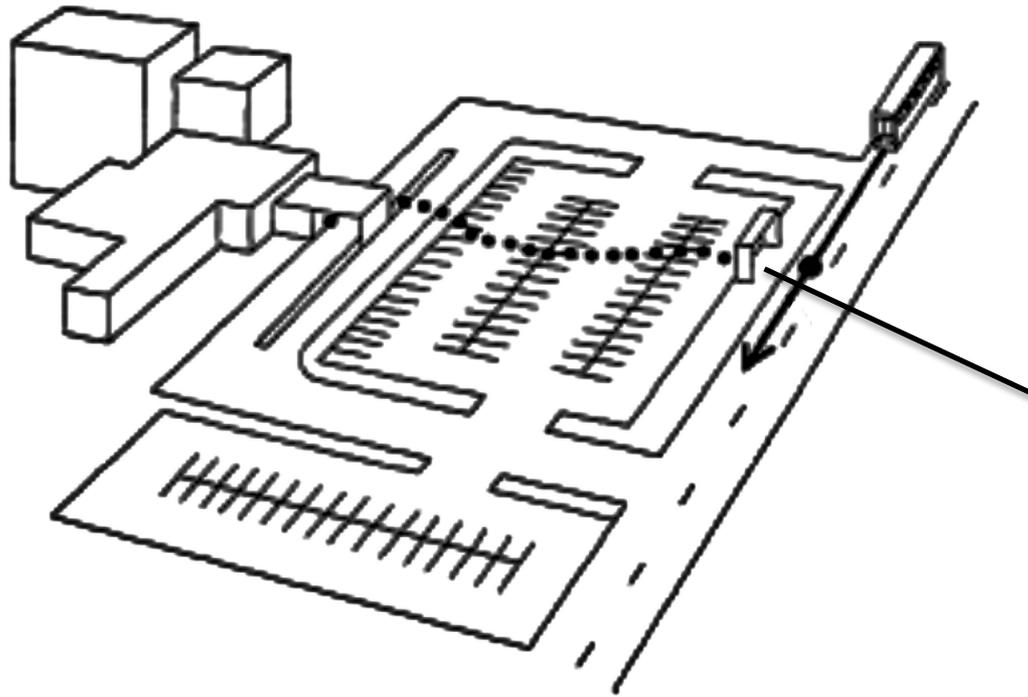
# Corridor Considerations



## Florida Public Transit Example — Medical Center Access

# Medical Center Access Discussion

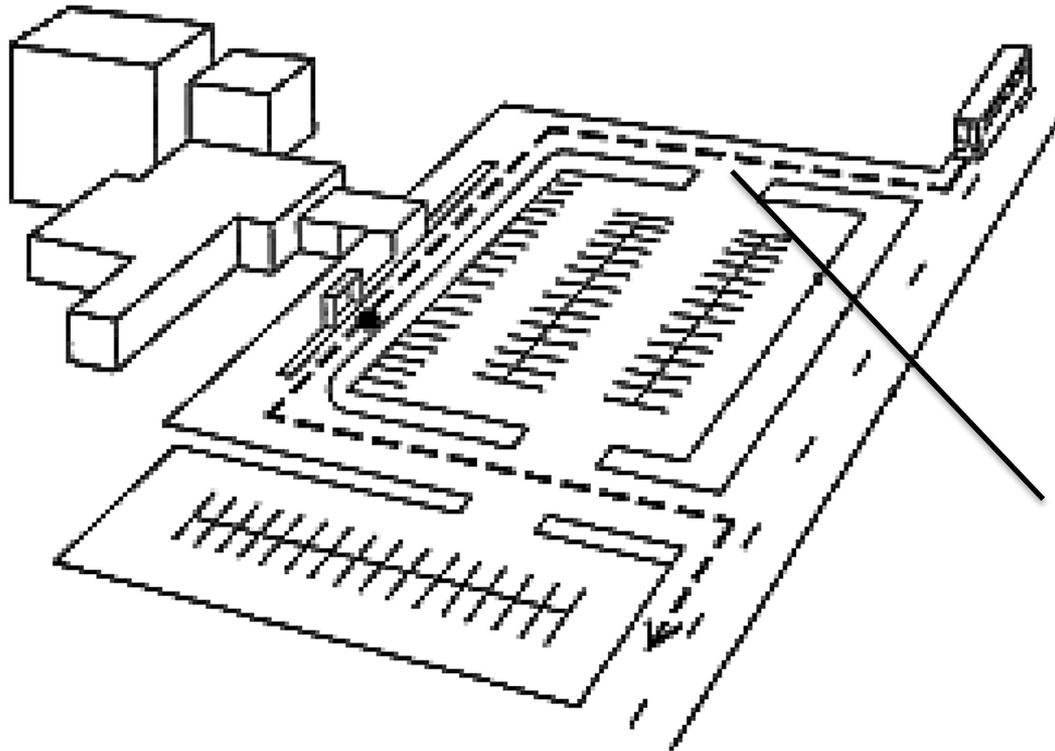
No coordination



Bus Stop is Far from Land Use and Patrons Must Access Building Through Parking Lot

# Medical Center Access Discussion

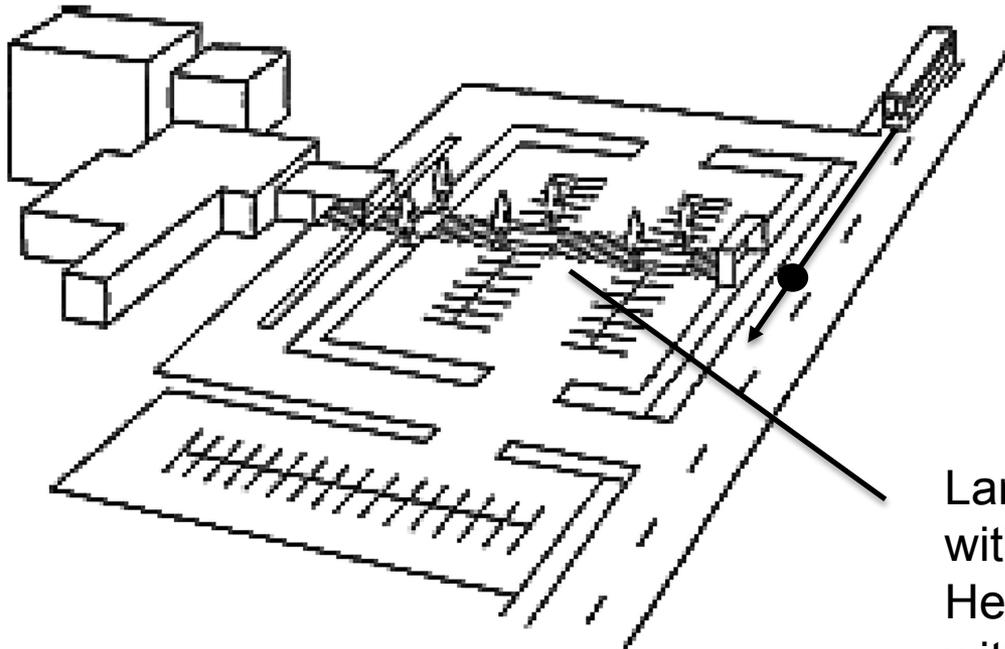
## Change the bus route



Allow Bus Route to  
Access Land Use and  
Provide Bus Shelter On  
Site for Patrons

# Medical Center Access Discussion

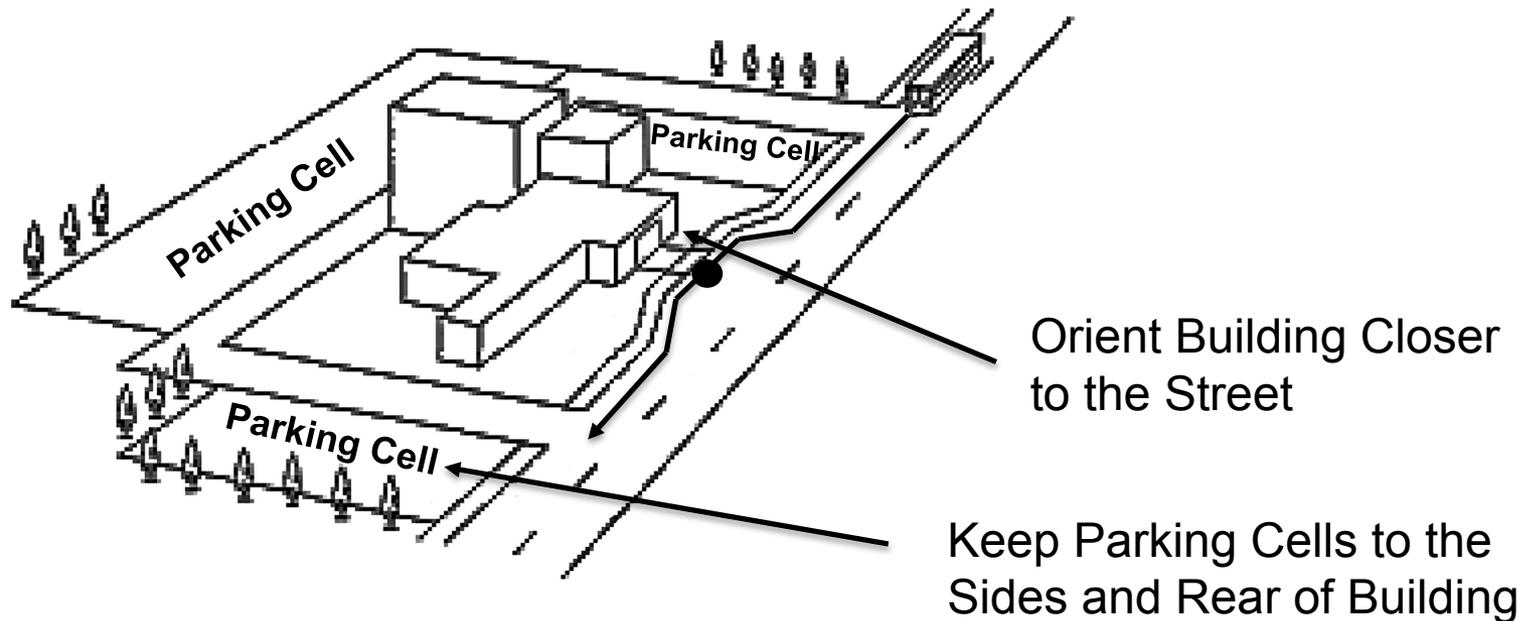
Improve pedestrian access  
across site



Landscape Promenade  
with Painted Crosswalks  
Help Connect Building  
with Bus Stop

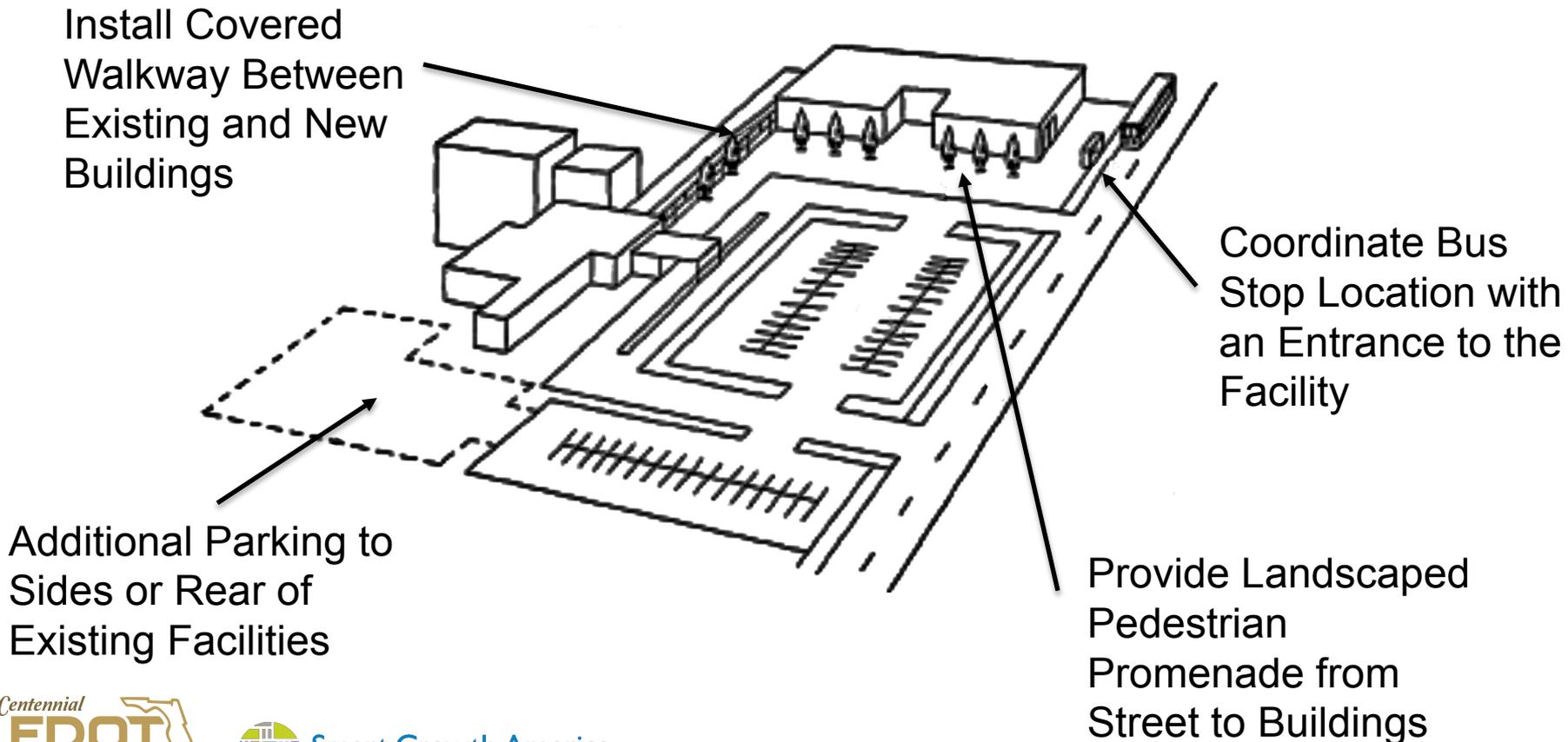
# Medical Center Access Discussion

**Orient building close to transit**



# Medical Center Access Discussion

## Expand hospital with transit access in mind



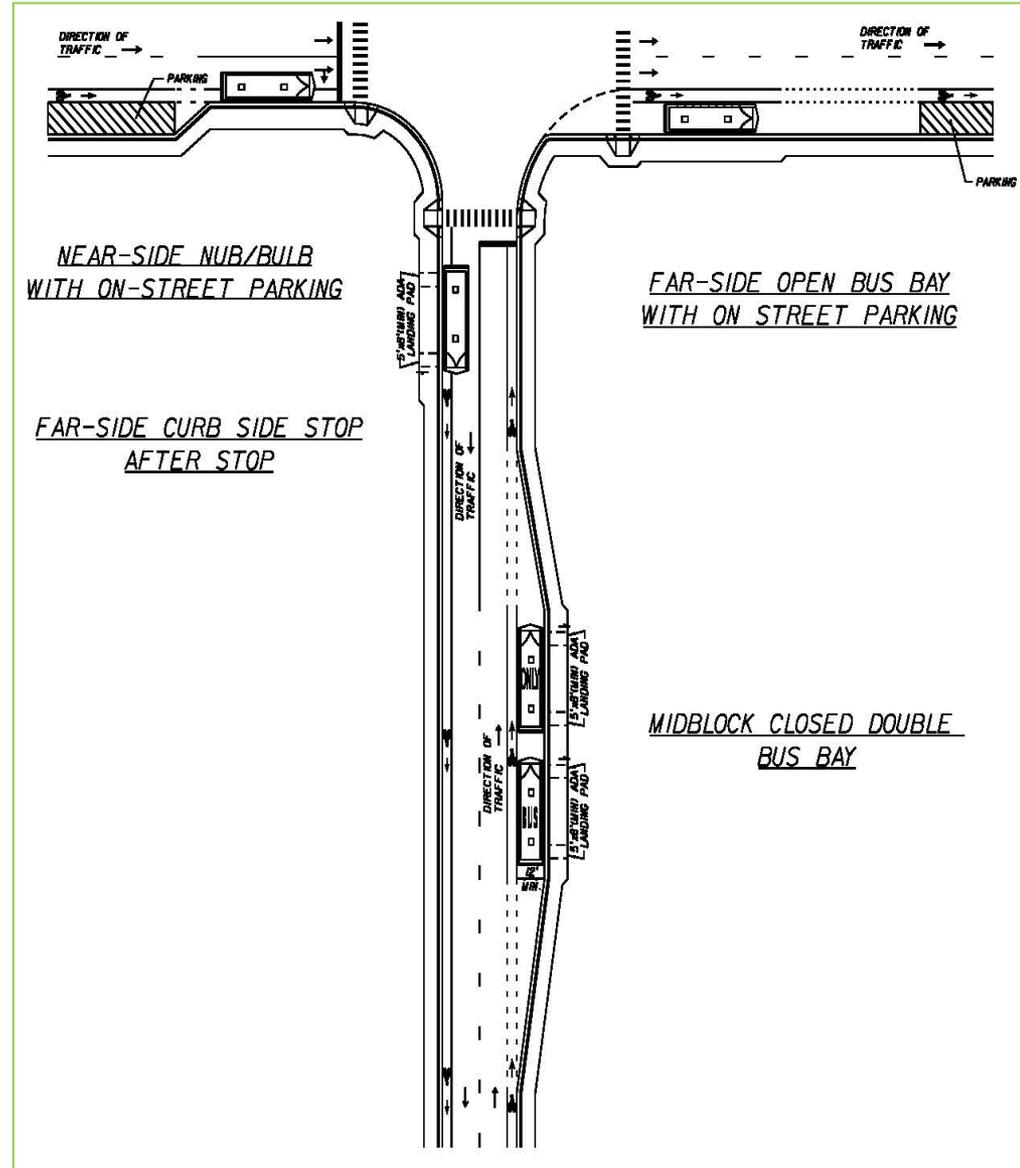
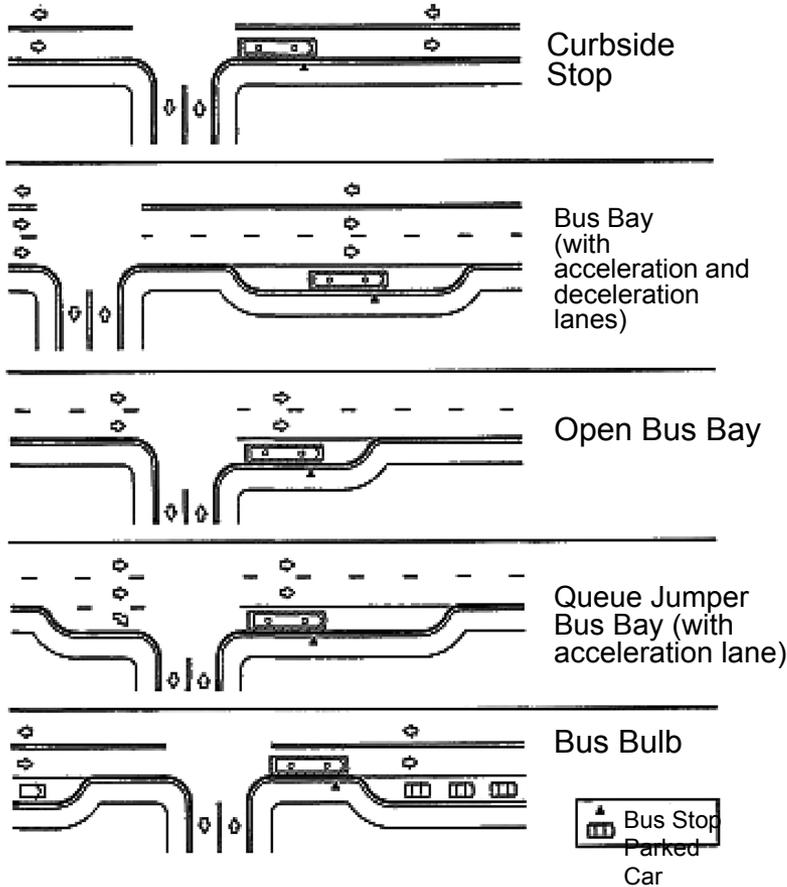
# Design Considerations

## Discussion Topics

- Bus Stops
- Balancing cost v. highway standards
- Balancing needs within the right of way

# Design Considerations

## Bus Stop Designs



# Design Considerations

There is no Bus Stop without a Sign!

- FDOT Accessing Transit



Where should it go?

# Design Considerations

## Other Features



# Design Considerations – Cost v. Standards

- What were the tradeoffs here?
- Would you make these choices?
- What authorities are involved in the decision?



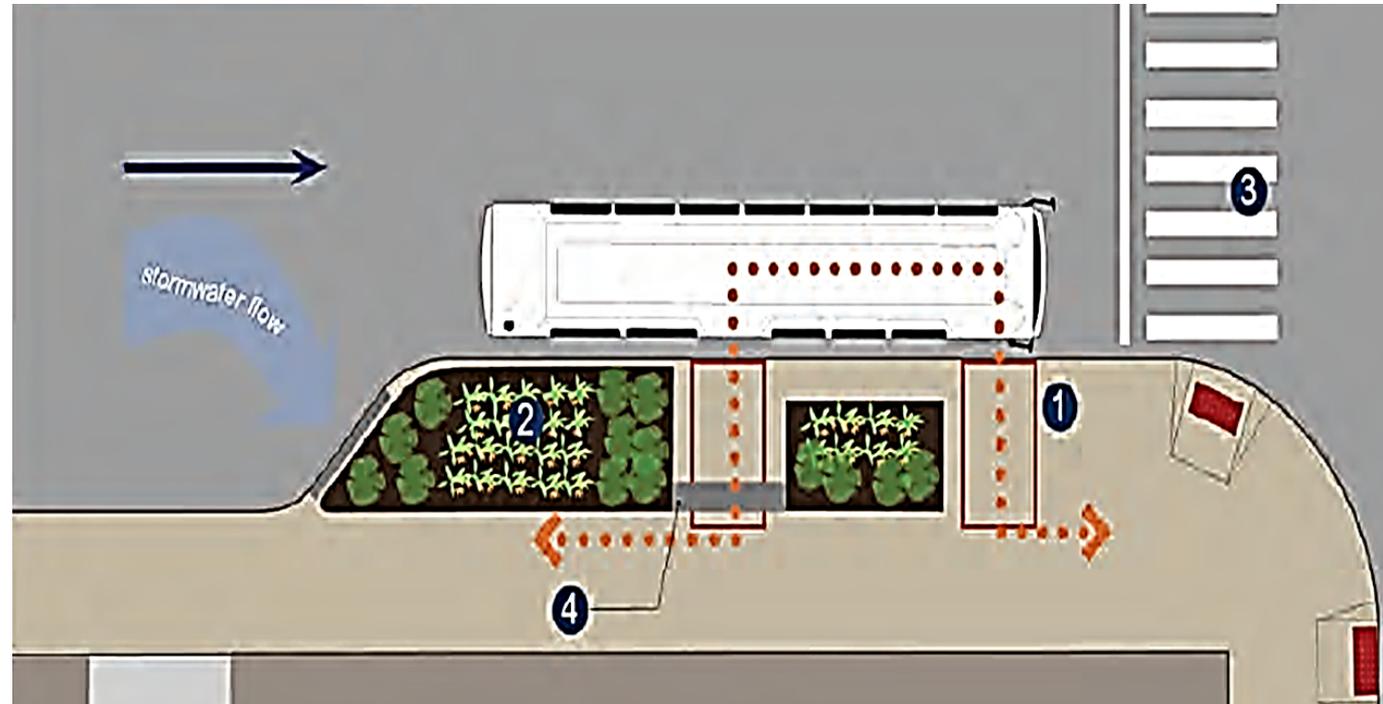
# Design Considerations – Priorities Competing for Roadway Space

- What were the tradeoffs here?
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# Design Considerations – Priorities Competing for Roadway Space

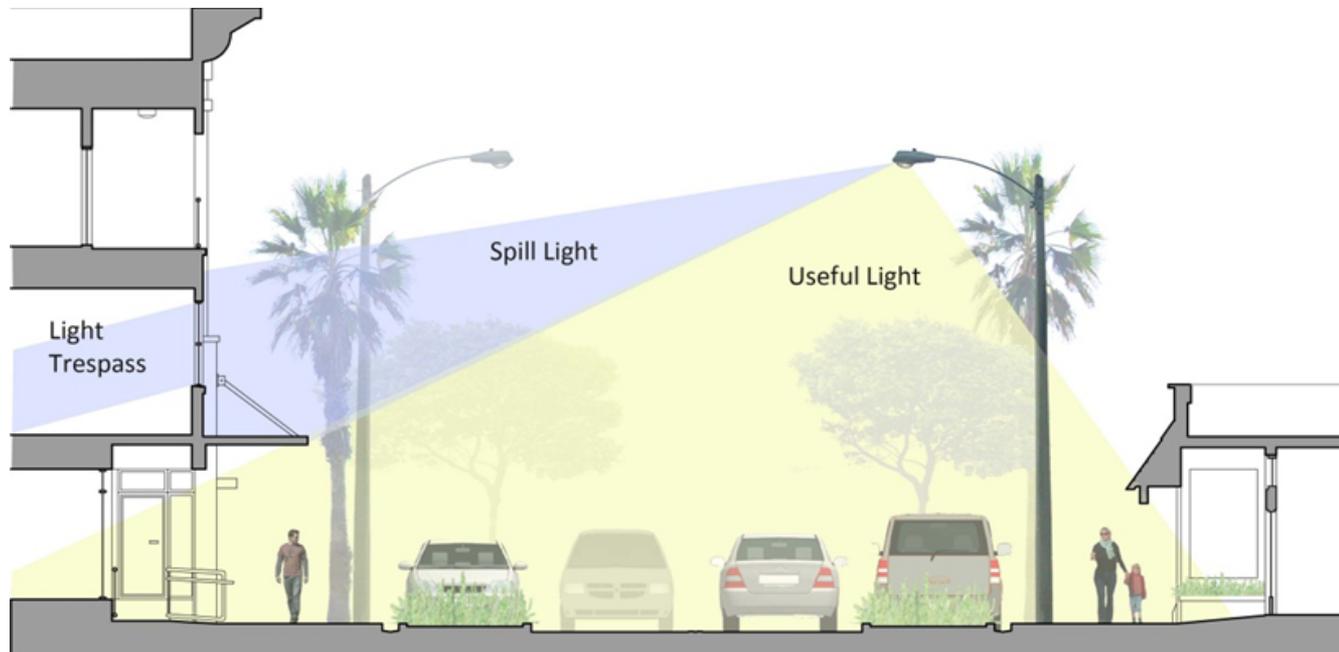
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Source: DVRPC 2012

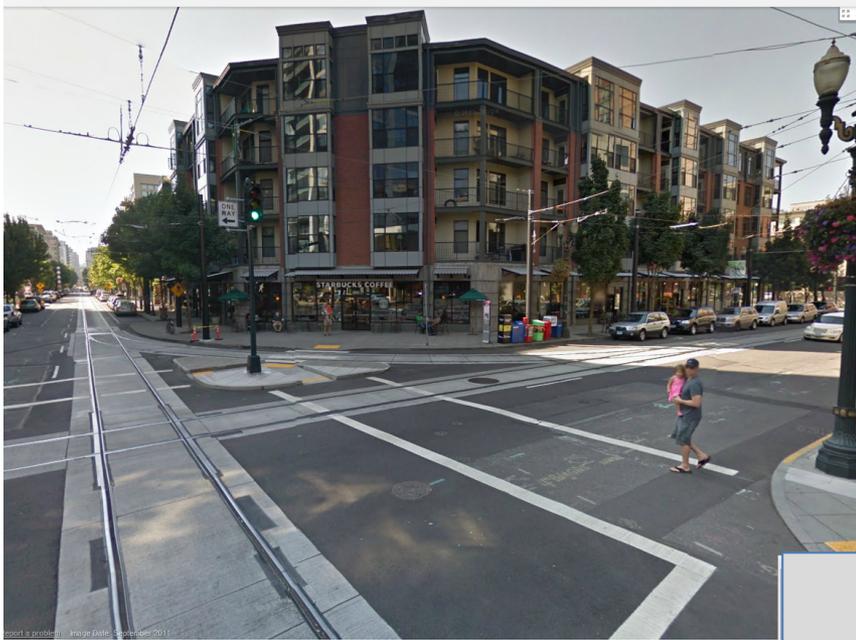
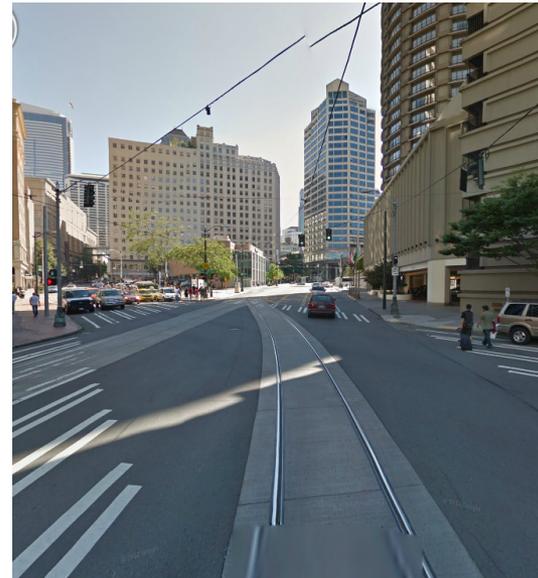
# Design Considerations

## Coordination with Roadway Lighting



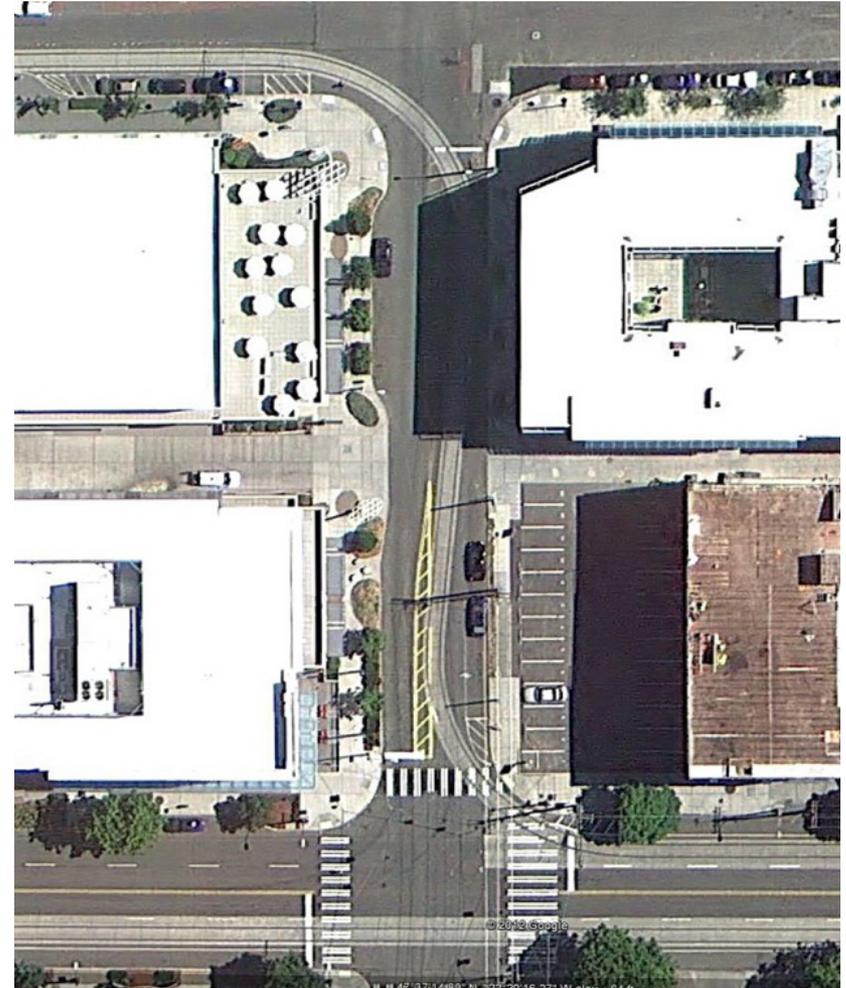
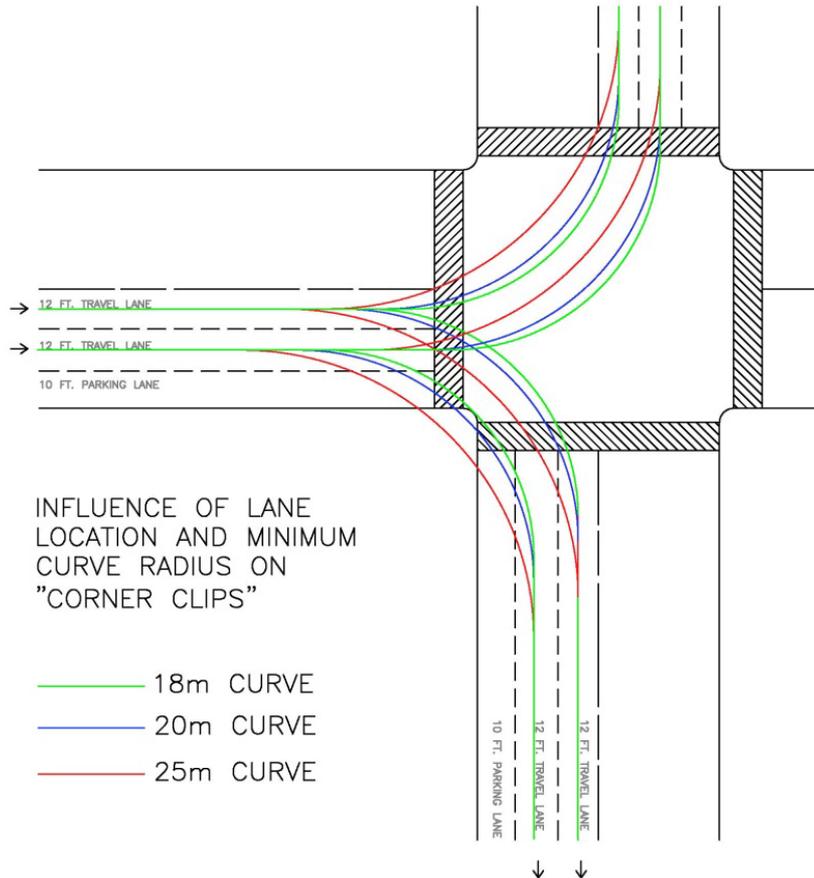
# Design Considerations – Streetcar/LRT

- Necessary track transition distances
- Traffic signal phasing and potential stop bar adjustments
- Special trackwork requirements
- Utility conflicts



# Design Considerations – Streetcar/LRT

- Minimum turning radius

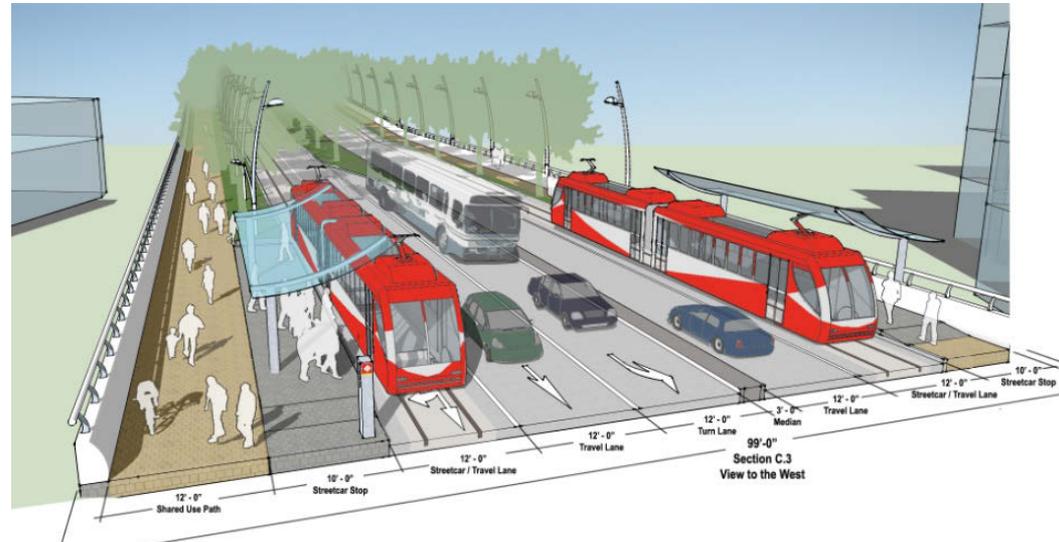


# Design Considerations – Alignments/Stop Locations Affect on Right-of-Way

## Median stop (104' cross section)



## Curbside stops (99' cross section)





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