

# Meade Street Bridge Design Alternative Study

## *Review of Design Alternatives*

*Stakeholder Meeting #2*

March 22, 2011

Presented by: Dan Biggs, RLA



ARLINGTON  
VIRGINIA

Walk   
Arlington



# What will come out of this Study?

## This Study

- Obtain Input from Stakeholders
- Review Existing Conditions
- Develop Three Concept Design Alternatives
- Recommend One Design Concept
- Identify potential costs of final design and construction

## Future Phases

- Final Engineering Design
- Final Construction



# Project Goal & Objectives

- **Goal:** to improve **Bicycle and Pedestrian access** and the user's **experience** along North Meade Street between Rosslyn and the Iwo Jima Memorial.
- **Objectives:**
  - Improving **non-motorized access** and user **safety** along corridor (RAFOM #27, 27).
  - **Minimize** vehicle and pedestrian **conflict points** (RAFOM #26).
  - Improve **streetscape** character of corridor (RAFOM #32, 42).
  - Improve bicycle, pedestrian, and motor vehicle **wayfinding** along corridor (RAFOM #26).
  - Maintain acceptable **levels of service** for all transportation modes (Bicycle, Pedestrian, Motor Vehicles & Transit).



# Project Process



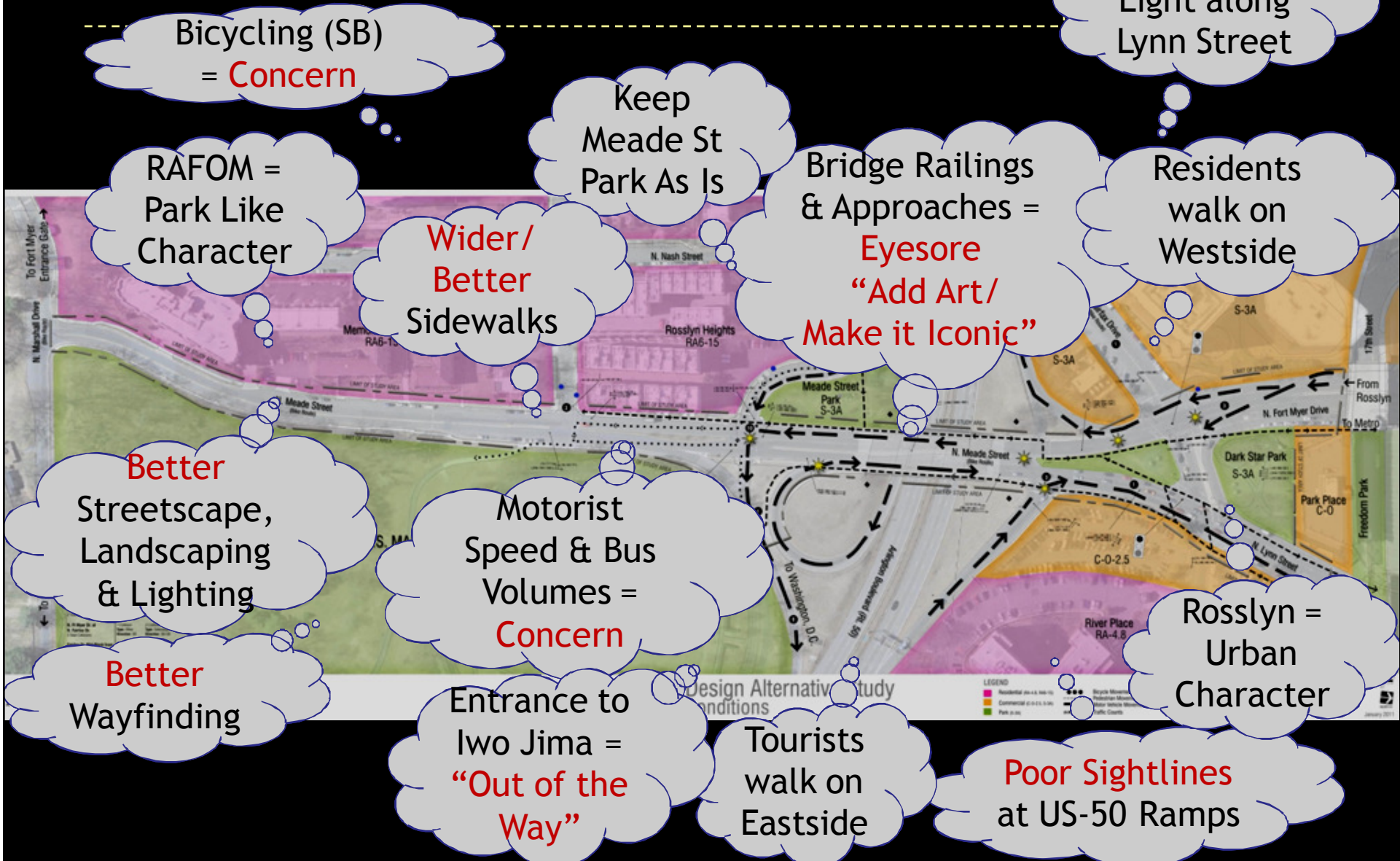








# Public Meeting #1 Feedback



# Meade Street Bridge Design Alternative Study

## Design Elements

To create a safe and comfortable experience for all modes of transportation on the Meade Street Bridge Corridor linking Downtown Rosslyn and the Iwo Jima Memorial.

### Bike Lanes



Urban Bike Lane



Existing Bike Lane on N. Lynn Street



Right-turn Pocket Bike Lane



Adjacent Right Turn Lane

### Shared Lanes



Shared-Lane Marking

### Wide Sidewalks



Wide Pedestrian Sidewalks

### Crossing Treatments/Signals



Existing high-visibility crosswalks to be incorporated throughout.



Pedestrian Countdown

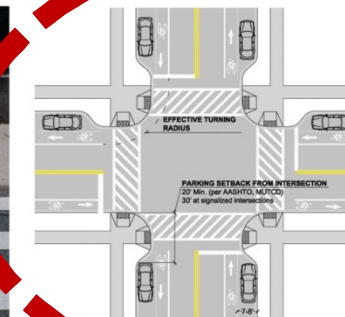


Pedestrian Push-Button



Detectable Warning Strip

### Curb Extensions



Curb extensions help to shorten crossing distance for pedestrians and slow motorists' speeds.



# Meade Street Bridge Design Alternative Study

## Design Materials

To create an identifiable streetscape for the Meade Street Bridge Corridor linking Downtown Rosslyn and the Iwo Jima Memorial.

### Street Trees



Pin Oak (*Quercus palustris*)



Scarlet Oak (*Quercus coccinea*)  
Fall



Swamp Oak (*Quercus bicolor*)



Tree Grates

### Bicycle Parking

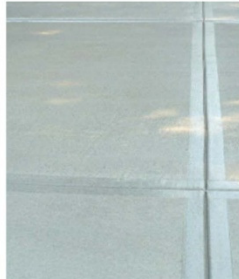


Inverted-U Bicycle Rack

### Surface Materials



Sidewalk Buffer  
Pavers



Concrete Sidewalks



Wall-Concrete  
Sidewalk



Wall-Stone



Engraved Pavement

### Site Furniture



Trash  
Receptacles



Benches



# Meade Street Bridge Design Alternative Study

## Design Materials

To create an identifiable streetscape for the Meade Street Bridge Corridor linking Downtown Rosslyn and the Iwo Jima Memorial.

### Wayfinding Signage



Informational Kiosk

Directional Wayfinding

Bicycle Wayfinding

### Public Art/Luminous Bodies



Luminous Bodies at the Meade Street Bridge, a Corridor of Light connecting to Lynn Street Bridge.

### Street Lighting



Post-top Lighting

Double Post-top Lighting

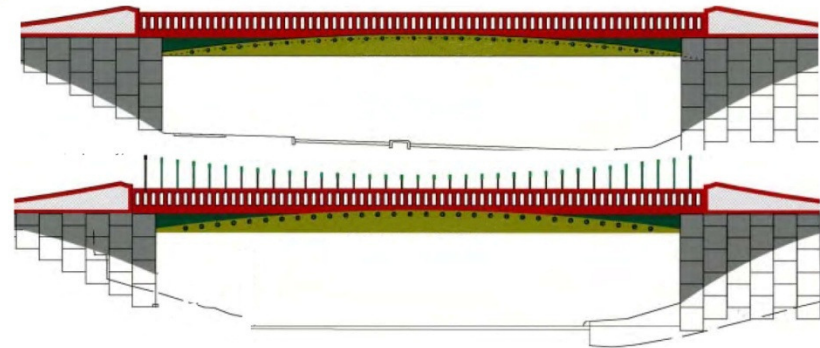
### Bridge Features



Bridge Fencing/Railing

Decorative Bridge Fencing with Art Elements

### Bridge Concepts

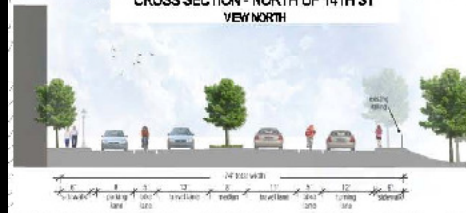
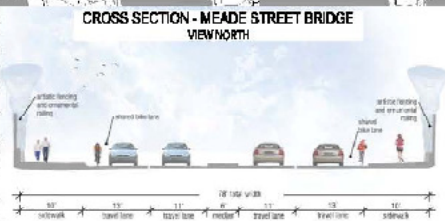
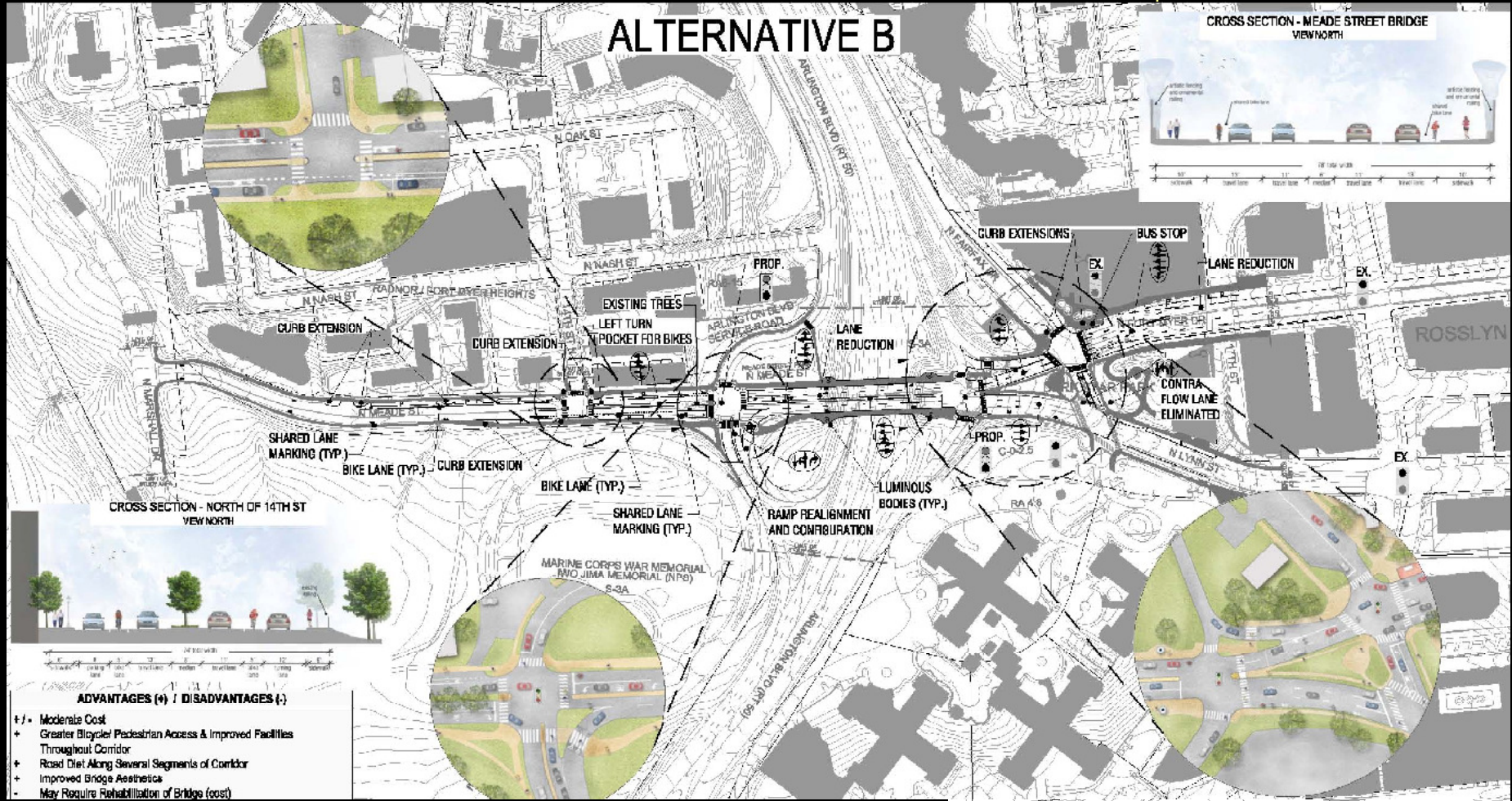








# Alternative B - Moderate



- ADVANTAGES (+) / DISADVANTAGES (-)**
- +/- Moderate Cost
  - + Greater Bicycle/Pedestrian Access & Improved Facilities Throughout Corridor
  - + Road Diet Along Several Segments of Corridor
  - + Improved Bridge Aesthetics
  - May Require Rehabilitation of Bridge (cost)

**LEGEND:**

- STUDY LIMITS
- - - PROPERTY LIMITS
- ⊙ EXISTING TRAFFIC SIGNAL
- ⊙ PROPOSED TRAFFIC SIGNAL
- P PARKING AREA
- ⊙ PROPOSED LUMINOUS BODY PUBLIC ART
- PROPOSED SIDEWALK
- PROPOSED CURB EXTENSION AREA
- PROPOSED STREET TREE

CROSS-SECTION LOCATION

0' 100' 200'  
SCALE: 1" = 100'

**MARCH 22, 2011**







# Alternatives Comparison

## N. Meade St. @ US 50 EB Off Ramp



Alternative A



Alternative B



Alternative C

## N. Meade St. @ Dark Star Park

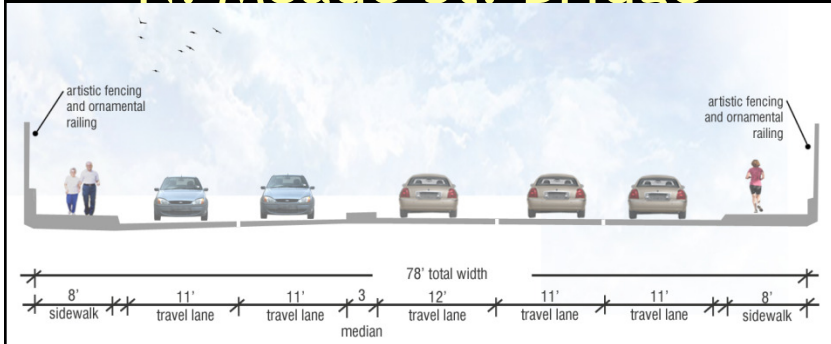


# Alternatives Comparison

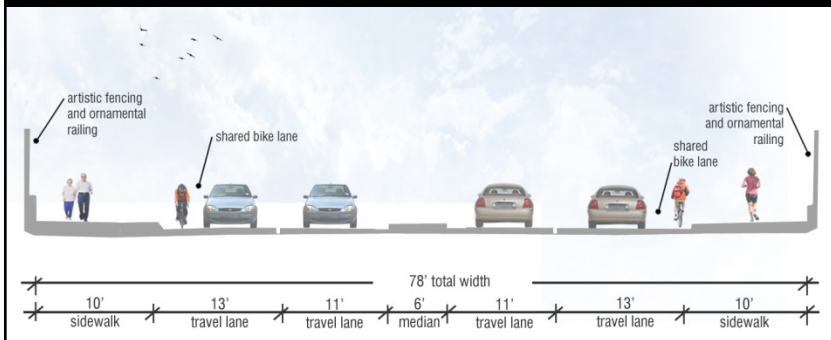
N. Meade St.

(north of 14<sup>th</sup> St. N)

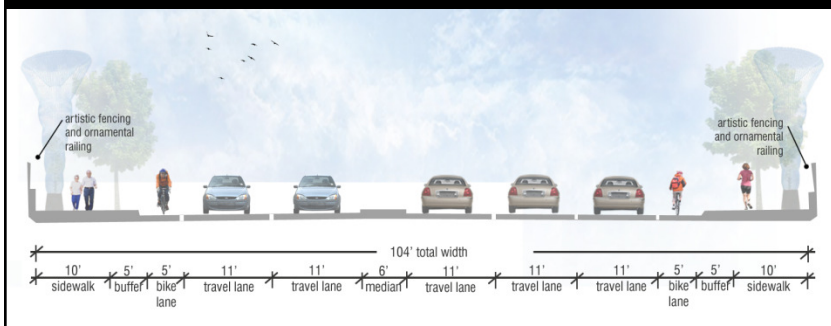
## N. Meade St. Bridge



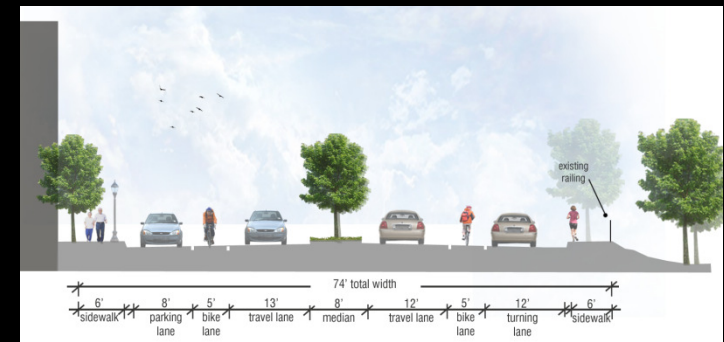
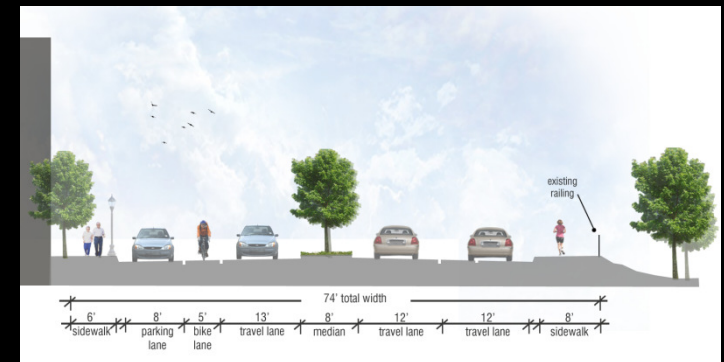
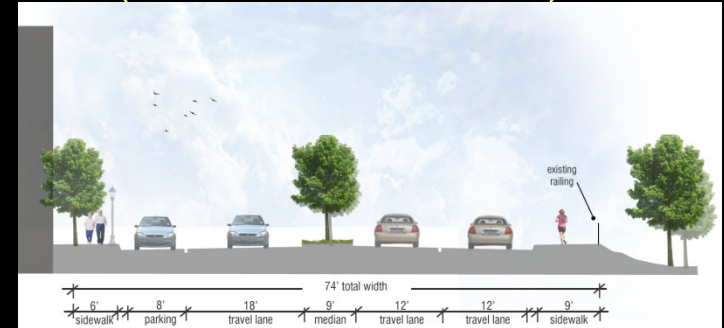
Alternative A



Alternative B



Alternative C



# Alternatives Comparison

Alternatives	Design Features	Cost	Facilities on Bridge
Alternative A (Spot Improvements)	Spot Improvements	Least	Bikes - No Dedicated Facility
	Improved Bike/Pedestrian Access		Pedestrians - 8' Sidewalk
	Retains Existing Roadway Configuration		Motor Vehicles - 5 - 11' Lanes
Alternative B (Moderate)	Greater Bike/Ped Access Throughout Corridor	Moderate	Bikes - Shared Lane
	Road Diet Along Several Segments		Pedestrians - 10' Sidewalk
	Aesthetic Improvements to Bridge May Require Rehabilitation of Bridge		Motor Vehicles - (2) -11' & (2) -13' Lanes
Alternative C (Complete)	Greatest Improvement to Access within Corridor & Bridge	Greatest	Bikes - Bike Lanes
	New/Rehabilitated Bridge		Pedestrians - 10' Sidewalk + 5' Buffer
	Ramps Realigned		Motor Vehicles - 5 -11' Lanes



# What's Next?

## Schedule:

- Open House (part I) 6:30 - 7:00
- Intro/Presentation 7:00 - 7:30
- **Open House (part II) 7:30 - 9:00**

## Upcoming:

- Apr/May - Preferred Concept Presentation Mtg #3
- May - Jun - Final Concept Design

“Comment on the Corridor”

