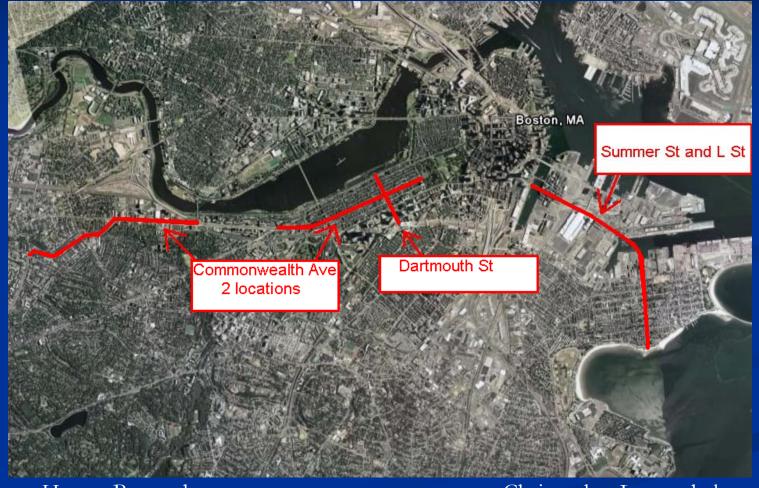
Spokes Engineering

Bicycle Lanes for the City of Boston





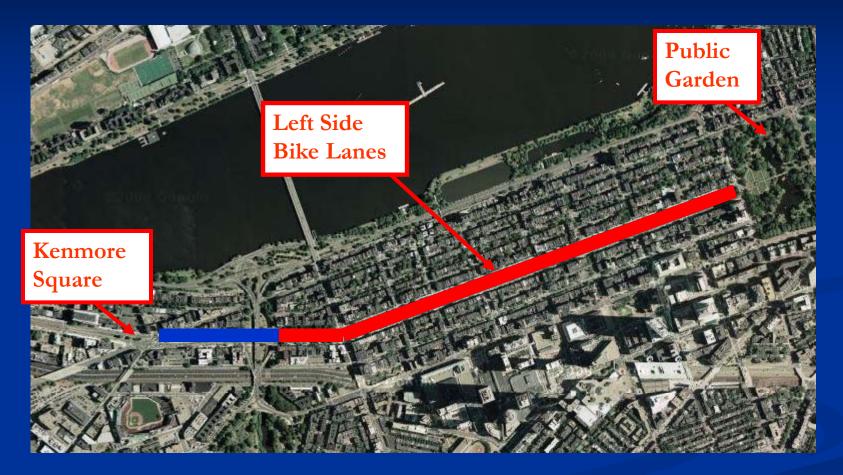
Hector Bermudez

Peter Hagen

Christopher Longenbaker

Zachary Wassmouth

Commonwealth Avenue

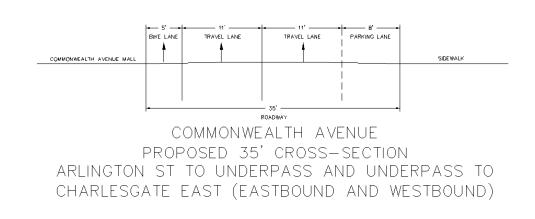




Benefits of Left Side Bike Lanes

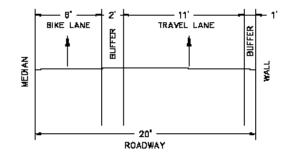
- No risk of "dooring" while traveling alongside parked cars
- No blockage of bike lane from double-parked vehicles
- Access into the underpass at Massachusetts

Avenue

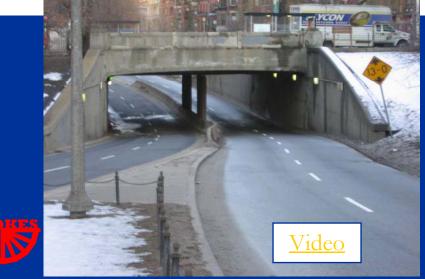




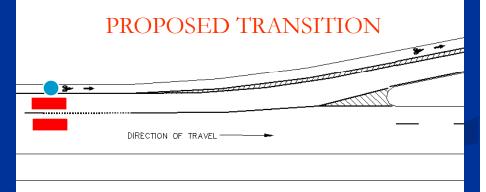
Underpass at Massachusetts Ave.



COMMONWEALTH AVENUE PROPOSED 20' CROSS-SECTION COMMONWEALTH AVE UNDERPASS

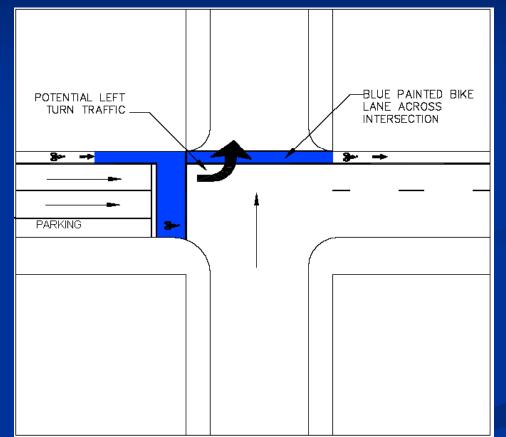


EXISTING TRANSITION



Bike Boxes

Advanced stop line for cyclists
Cyclists more visible to motorists
Bike lane painted across intersections



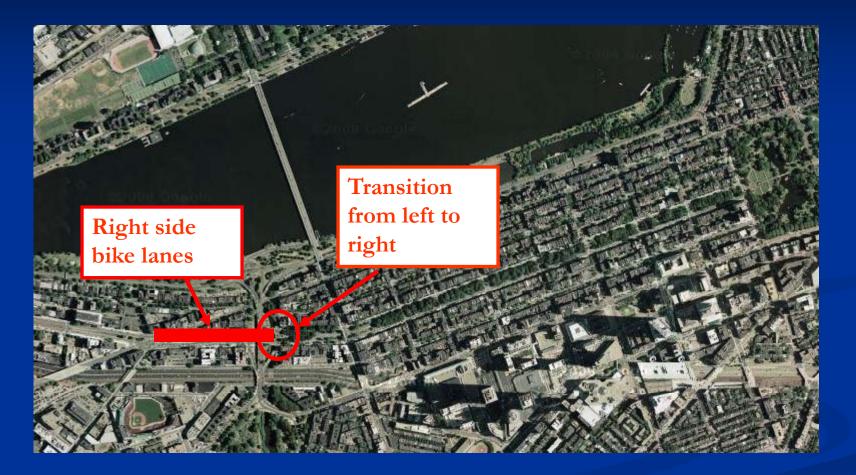


Rendering of a Bike Box at Gloucester Street Intersection





Transition To/From Right Side Bike Lanes



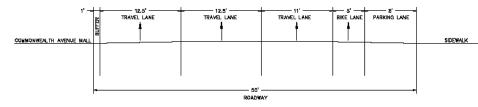


Left to Right Transition



Road Diet for Bike Lane



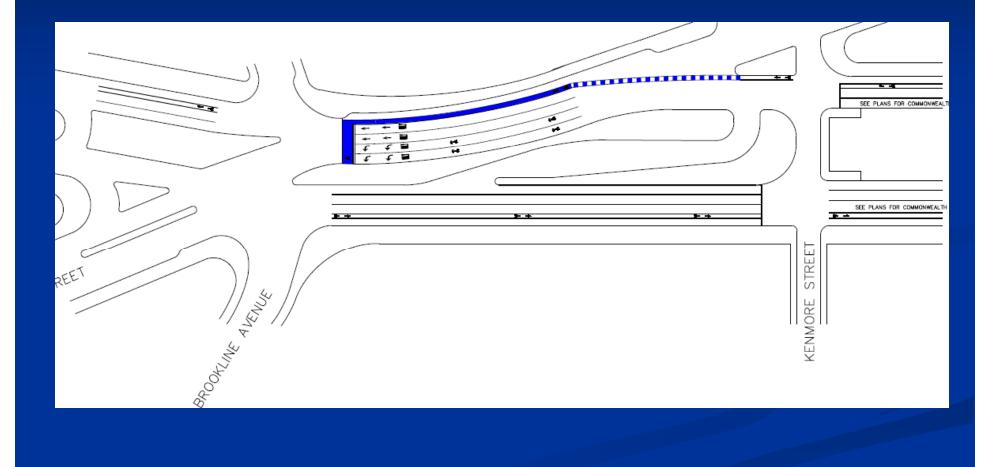


PROPOSED 50' CROSS-SECTION EASTBOUND KENMORE ST TO CHARLESGATE WEST



COMMONWEALTH AVENUE

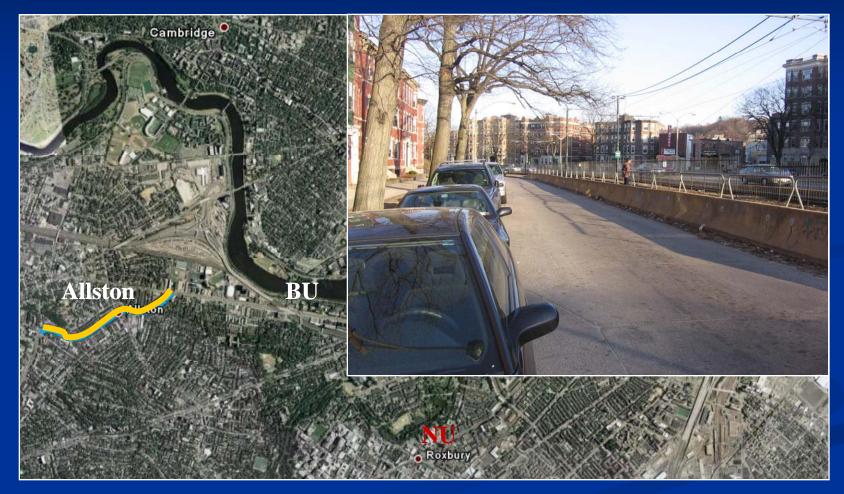
Kenmore Square





Commonwealth Avenue

-Warren St. to Packard's Corner-





Left Side Bike Lane -Commonwealth Ave. Service Road-





Where

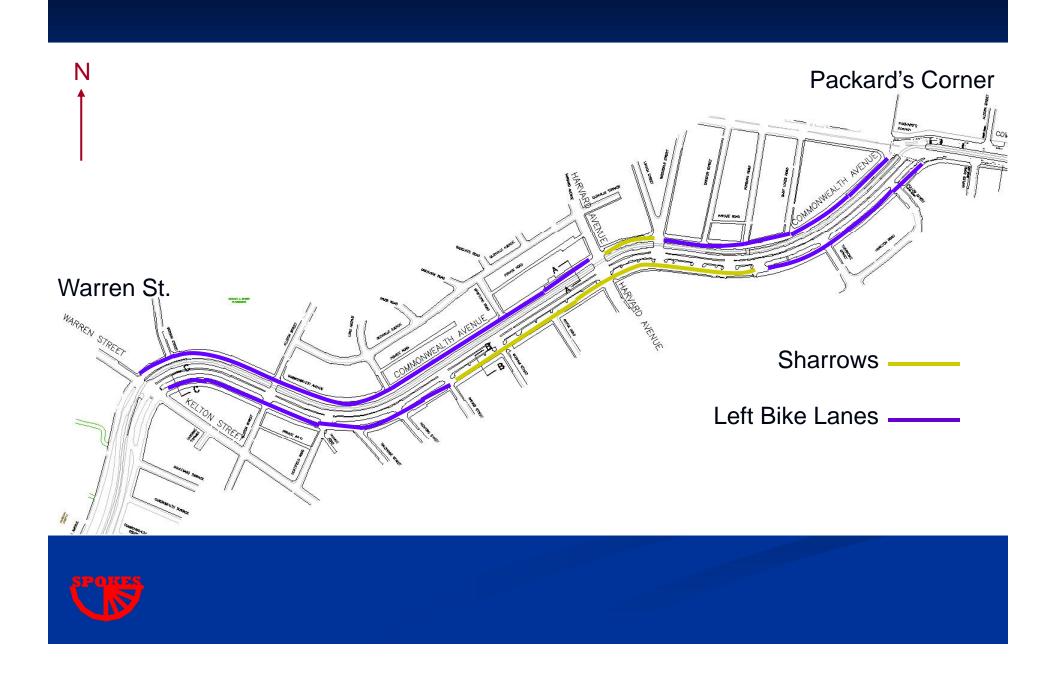
are

sharrows

required?

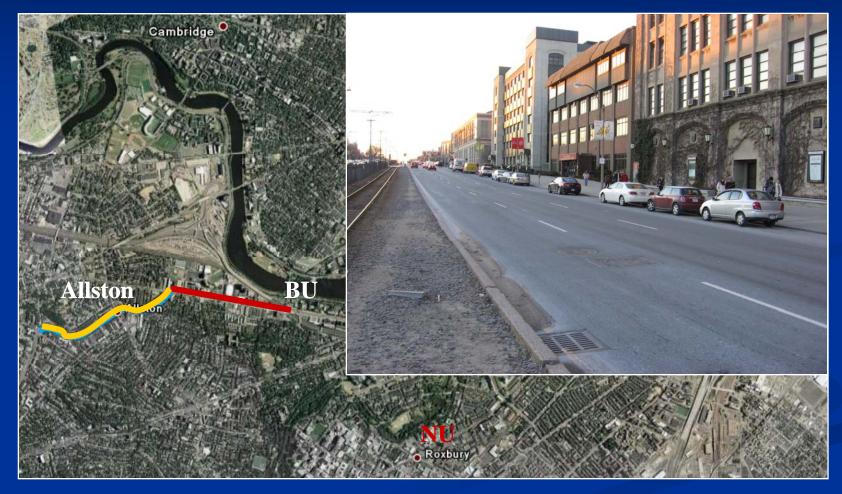






Commonwealth Avenue

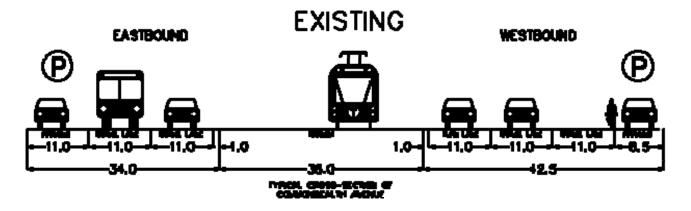
-Packard's Corner to BU Bridge-

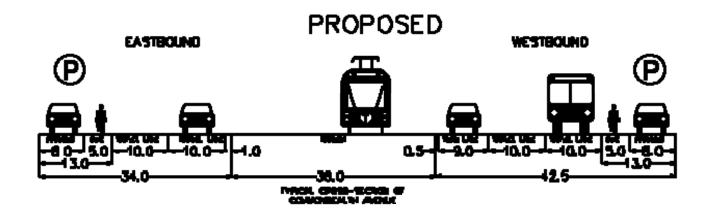




Cross-Sections

-Existing and Proposed-







10' Lanes & Bike Lanes -A Win for Cyclists and Motorists-

WESTBOUND TURN LANE PARKING TRAVEL LANE TRAVEL LANE 1.0 8.5 11.0 ()42.5



10' Lanes & Bike Lanes -A Win for Cyclists and Motorists-

WESTBOUND TRAVEL LANE TURN LANE TRAVEL LANE BIKE PARKING 0.5 5.0 0.0 -8.0 042.5



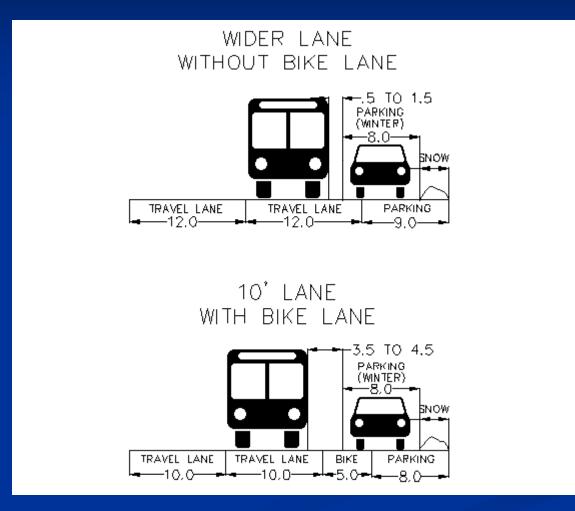
10' Lanes & Bike Lanes -A Win for Cyclists and Motorists-

Potts Study (2007):

"It was concluded from this research that there was no indication of an increase in crash frequencies as lane width decreased for arterial roadway segments or arterial intersection approaches."



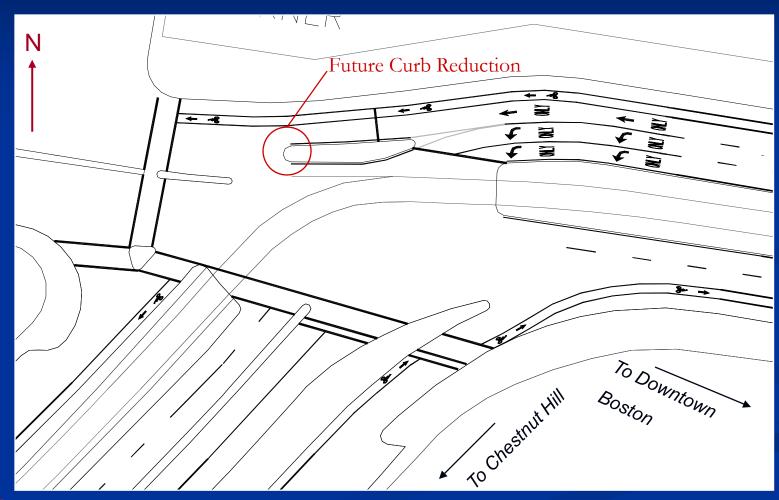
Benefits for Motorists -More Room in Winter-





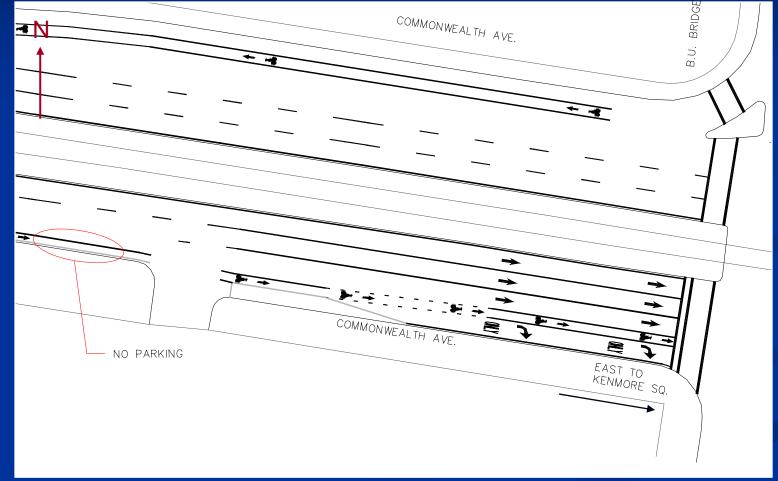
Packard's Corner

-Interesting Intersections-





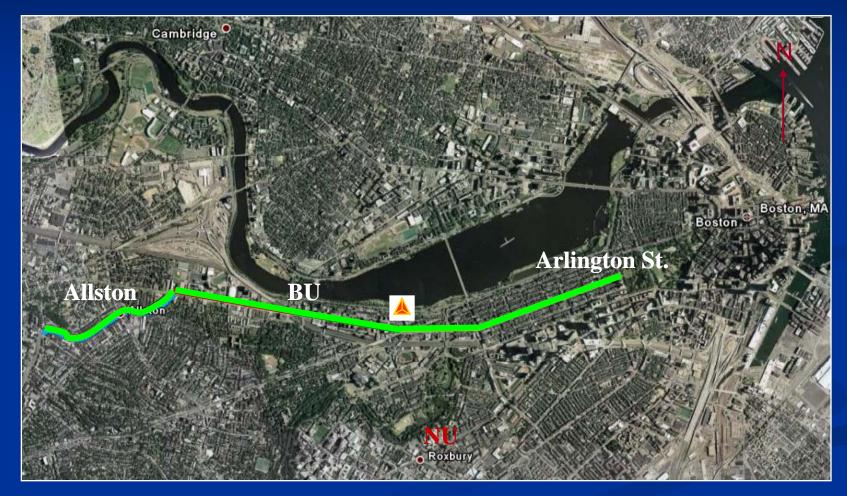
BU Bridge -Interesting Intersections-





Commonwealth Avenue

-Making Connections: Allston to Arlington St.-





Dartmouth Street

Stuart Street to Charles River Bike Path

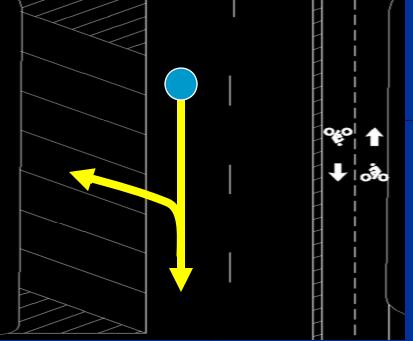


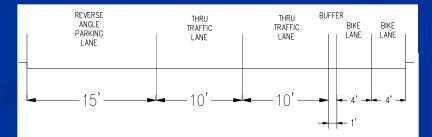


Boylston Street to Commonwealth Ave.



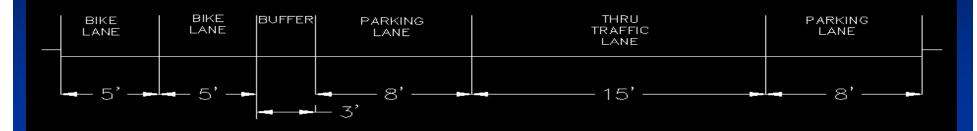
- Eliminating parking along left side of the road
- Reduction of travel lanes to 10'
- Implementing reverse-angle parking
- Pair of 4' bike lanes on left side with 1' buffer

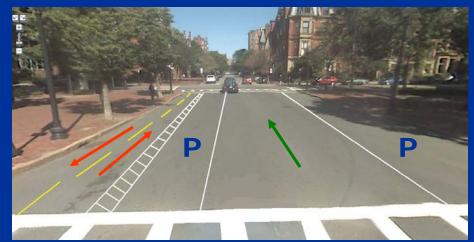


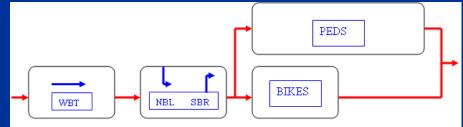




Commonwealth Ave. to Beacon Street



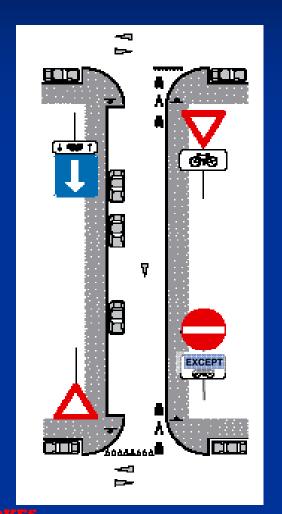




- Reducing street to 1 travel lane
- 332 during PM peak (avg. 10 per cycle)
- NYC style parking buffer
- Provision of a bike phase at Dartmouth/Beacon



Beacon Street to Charles River Path

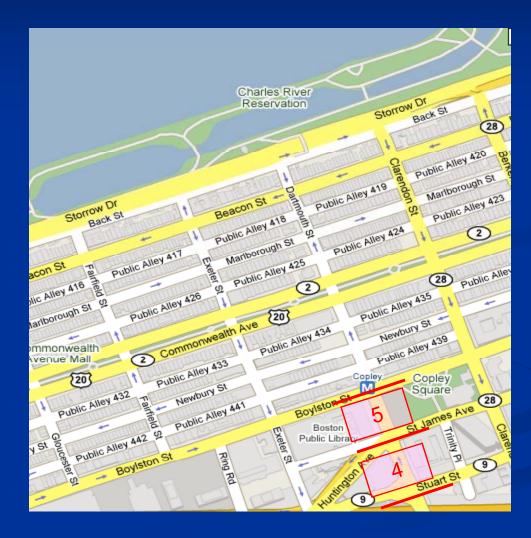




- Access to Charles River
- Dashed line through intersection
- Provision of signage for vehicular traffic

Dartmouth Street

Sections 4 & 5



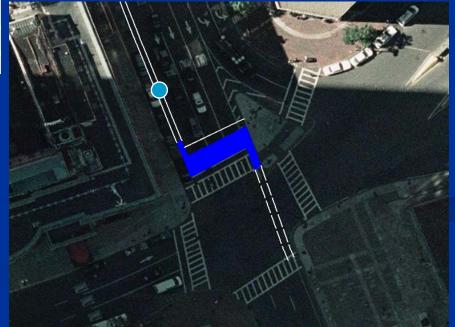


Stuart Street to Huntington Avenue

-	LEFT TURN ONLY LANE LEFT	TURN ONLY LANE THRU TRAFFIC L.	ANE THRU TRAFFIC LANE	THRU TRAFFIC LANE	IKE LANEBUFFER	PARKING LANE
	1 2' 1 2'	-12'	11'	11'	• 4' -• • 3'-•	 8'



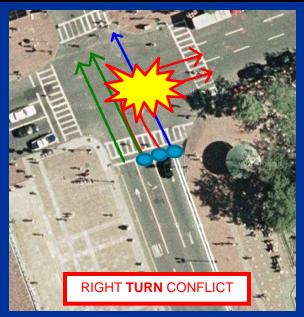
- Heavy left turn traffic onto Huntington or I-90
- Single NB 4' bike lane with 3' buffer
- Bike Box

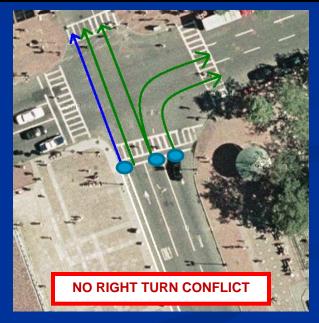




Huntington Avenue to Boylston Street







- Heavy right turn traffic onto Boylston Street
- 409 during AM peak (avg. 12 per cycle)
- Pair of 4' bike lanes on left side with 2' buffer

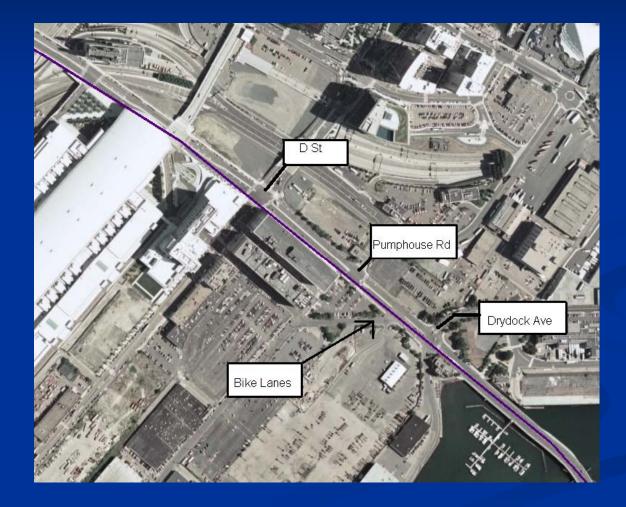


South Boston Fort Point Channel to L St. Beach



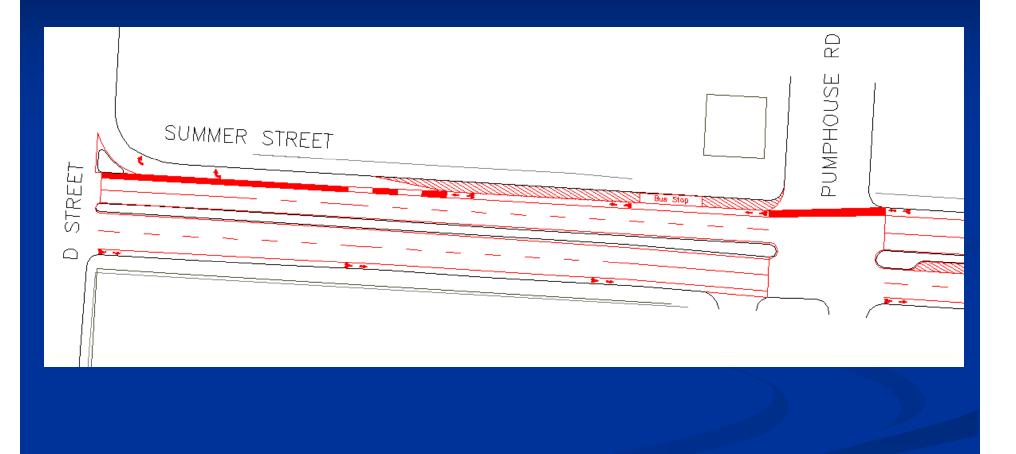


Safety @ Right Turns





D St.



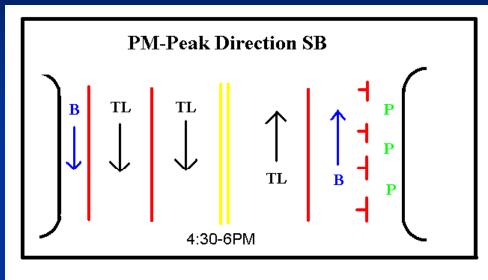


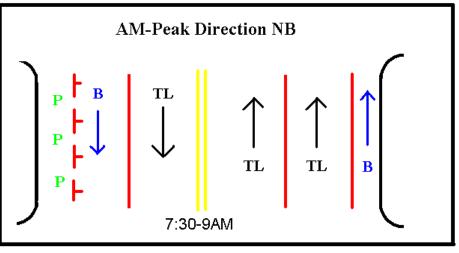
Width - Floating Bike Lanes





Floating Bicycle Lane Operation





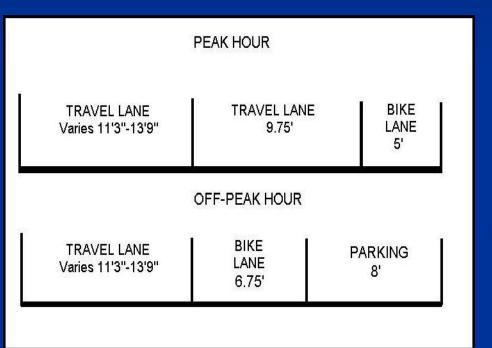


Summer St. looking NB



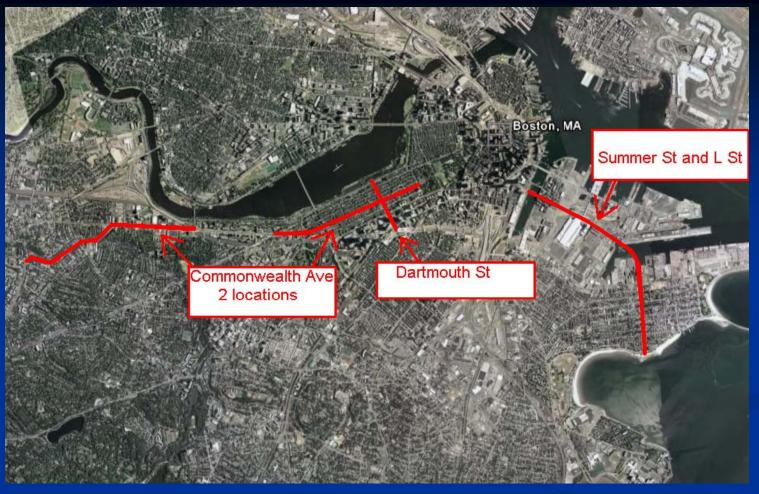
Floating Bike Lane Cross Section

NORTHBOUND SIDE



Lane Orientation
 Traffic Analysis
 Two intersections
 Under capacity





THE END

