Bicycle Master Plan Issue Papers

Community Advisory Group Meeting April 6, 2016 Jessica Zdeb, Toole Design Group



Agenda

- **1.** Bikeway classification
- 2. Shared use paths v. Separated bike lanes
- 3. Two-way facilities on both sides of the street



BIKEWAY CLASSIFICATION



Classification types

Facility classification: groups bikeways by facility type

 Network classification: provides framework for understanding bikeway's function in the network



Current Montgomery County classification

- Facility classes
 - Shared use path
 - Bike lane
 - Signed shared roadway
 - Dual bikeway
 - Cycle track
- Network classes
 - Countywide (2/3 mileage)
 - Local (1/3 mileage)



Classification example: Arlington

No network classification

Facility classification

	Off-street trails (Shared-use paved trails)
	Bike Lanes
•••••	Shared Lane Markings (Sharrows)
	On-street routes (Roads that have been determined to be bicycle friendly or provide important connections to the bicycle network)
	or provide important connections to the oregete network,



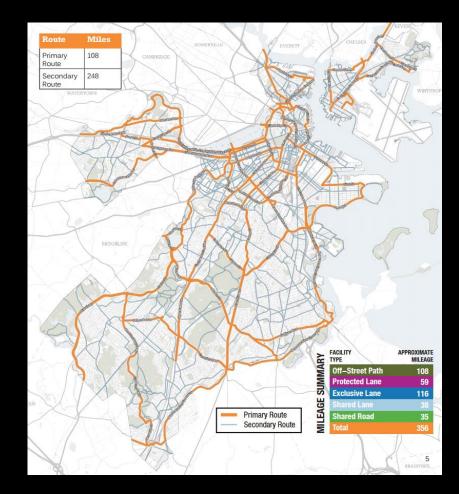
Classification example: Minneapolis

- Auto-style network classification
 - Arterial: Principal and minor
 - Collector
 - Neighborhood
- Facility classification: bicyclist's experience



Classification example: Boston

- Facility classification: bicyclist's experience
 - Off-street path
 - Protected lane
 - Exclusive lane
 - Shared lane
 - Shared road
- Network classification
 - Primary
 - Secondary





Classification example: Portland

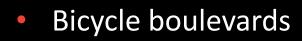
- Facility classification: level of separation
 - Trails
 - Separated in-roadway
 - Shared roadway
- Network classification: policylevel system
 - Major City Bikeway
 - City Bikeway

MILES by classifica	ation t	ype:
Facility type	Total plan miles	Percent
Major City Bikeways	205	21%
Trails	54	5.5%
Separated in- roadways	96	10%
Bicycle boulevards	49	5%
Advisory bike lanes	5	0.5%
Enhanced shared roadways	1	0%
City Bikeways	757	79%
Trails	85	9 %
Separated in- roadways	394	41%
Bicycle boulevards	199	21%
Advisory bike lanes	33	3%
Enhanced shared roadways	46	5%
TOTAL	962 miles	100%
IGURE 3-4: Total plan mile	s by class	ification ty



Recommendation: Facility classification

- Shared use paths
 - Trail
 - Sidepath
- Separated bike lanes
- Bike lanes
 - Buffered bike lanes
 - Bike lanes
 - Climbing lanes
 - Contraflow lanes
 - Advisory bike lanes
 - Shoulder accommodation



- Shared roadways
 - Priority shared lane markings
 - Shared lane markings



Recommendation: Network classification

- Policy-level designation of:
 - Major County Bikeway (MCB)
 - County Bikeway (CB)
- Designation does not dictate facility type
- Lower proportion of MCB than in 2005 Plan scheme



SEPARATED BIKE LANES V. SHARED USE PATHS



Differentiating between facilities

- Separated bike lanes: *exclusive* space for bicyclists
 Can be in-street, in-between grades or at sidewalk level
- Shared use paths: *shared* space for all nonmotorized users
 - At sidewalk level
 - Paper only addresses paths in the right-of-way



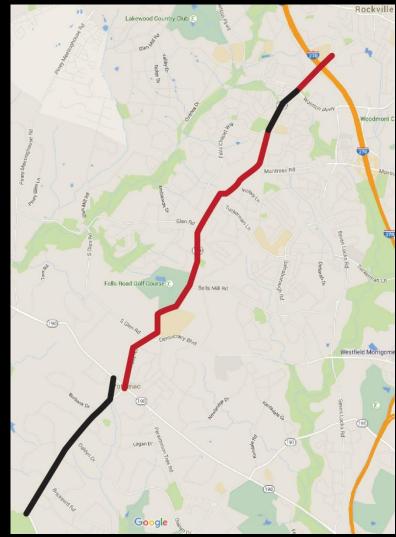
Criteria for application

Characteristic	Shared Use Path (SUP)	Separated Bike Lane (SBL)
Estimated or Anticipated Pedestrian Volumes	Lower pedestrian volumes	Higher pedestrian volumes
Character	Less dense development, especially suited in rural areas or bounding undeveloped land	More dense development, especially commercial and mixed- use



Example application: Falls Road

- Two-lane arterial
- Varying shoulder width
- Existing sidepath in some sections
- Majority is less dense development





TWO-WAY FACILITIES ON BOTH SIDES OF THE STREET



Issues addressed

- One-way facilities on both sides
 - May necessitate crossing roadway twice
 - May lead to wrong-way riding in bike facility
- Two-way facility on one side
 - May necessitate crossing roadway twice
 - May lead to sidewalk riding on other side of street



Domestic examples

- Few exist!
 - Casey Arborway
 - Hiawatha Trail



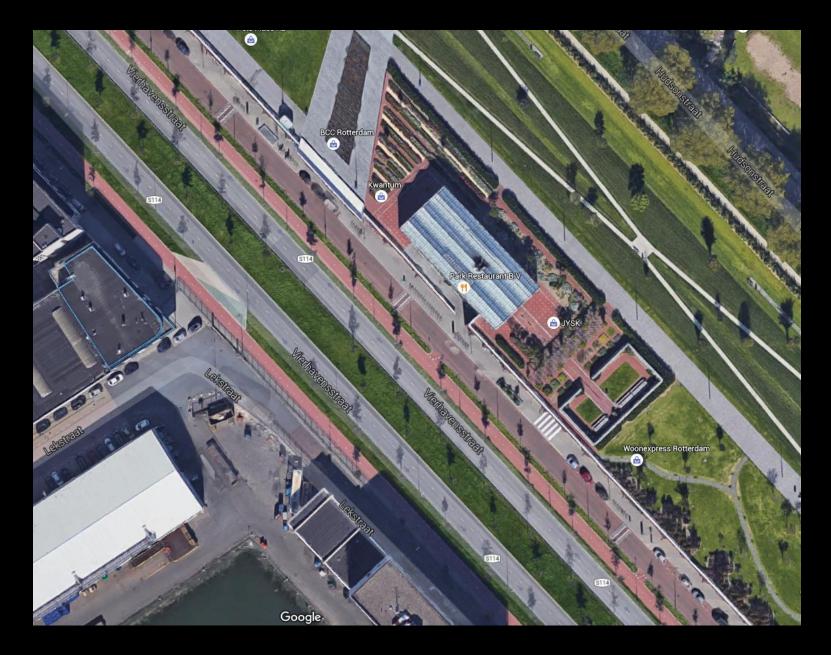


Dutch examples

- Often applied with center-running transit, but not always
- Applied in wide cross sections
- Applied with destinations on both sides of street









Criteria for application

- Long distances between safe, comfortable crossings (typically 800 to 1000 feet)
- Wide cross section (four or more lanes), and
- Presence of destinations on both sides of the street



Example application: Rockville Pike

- Major destination and network link
- Wide cross section (six lanes)
- Long distance between crossings (average 850 feet)
- Destinations on both sides of street (will increase with redevelopment)





Example application: Old Georgetown Road

- Short connector in commercial area
- Wide cross section (eight lanes)
- Long distance between crossings
- Destinations on both sides

