Bicycling in Rockville Going for Recognition!

Presentation to Rockville Bicycle
Advisory Committee
Wed. December 2, 2009

Presentation Format

- Brief Background on Bicycle Friendly Communities
- Existing Conditions in Rockville
- Recommendations for Improvements
- Questions and Answers

Characteristics of BFC's

- Almost immediately recognizable that bicycles are welcomed.
- Bicycle facilities are obvious
- Bicycle facilities are used
- The five E's are addressed (i.e. Engineering, Education, Encouragement, Enforcement, Evaluation).

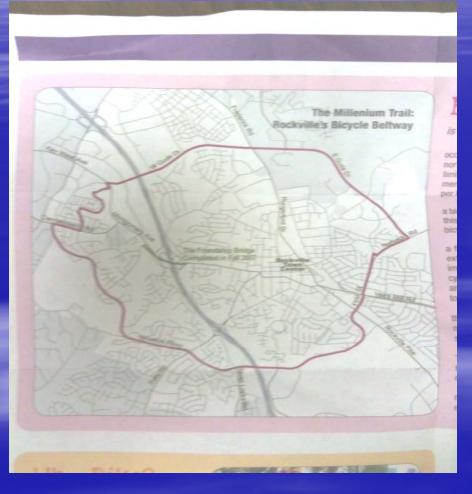
Existing Conditions in Rockville

- Rockville received Honorable Mention by LAB as a BFC.
- Rockville has made significant progress in promoting bicycling (i.e. Friendship Bridge, Millennium Trail, pioneered school based bike safety curriculum, bike mapping, crosscity bike routes, etc).
- Congratulations, Rockville!

Areas for Improvement

- Millennium Trail Improvements
- Partnership with Montgomery College regarding bicycling
- Evaluating bike access to Rockville Pike commercial district
- Social marketing campaign
- Comprehensive bikeway network

Millennium Trail Improvements



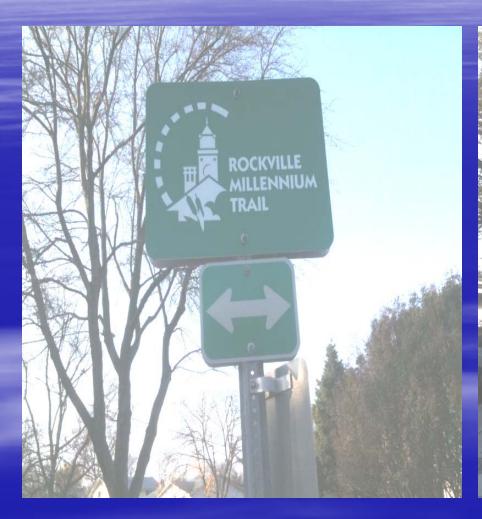
- Signing
- Pavement markings
- Bollards
- Intersection Design
- Orientation
- Maintenance

Millennium Trail Existing Conditions



- Bikeway recognition
- Orientation problems
- Destination Information
- Bollard Placement
- Intersection issues
- Encroachment issues

M Trail—Bikeway Recognition





M-Trail Bikeway Recognition





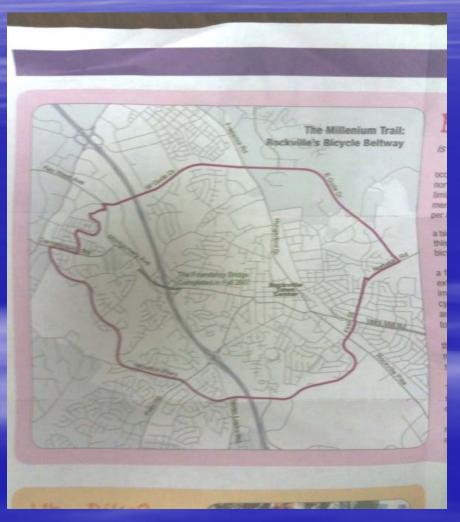
M-Trail – Bikeway Recognition







M Trail- Orientation Vicinity Maps along Trail





M Trail – Orientation Mileage Markers





- Existing Design on Pavement
- Easy for bicyclists to miss
- Not consistent
- Replace/supplement with mileage posts along edge of trail

M Trail - Destinations



 Missed opportunities for destinations to major activity centers (e.g. Thomas Community Center, Wooton H.S, etc)



M Trail – Bollard Placement

- Bollards on Trails Necessary Traffic Control Devices or Spawns of Satan?
- Anecdotal evidence shows bollards pose dangers to trail users
- Bollard placement is recommended as a last resort...not standard practice
- Bollards should be visible and reflective
- Consider flexible plastic for materials

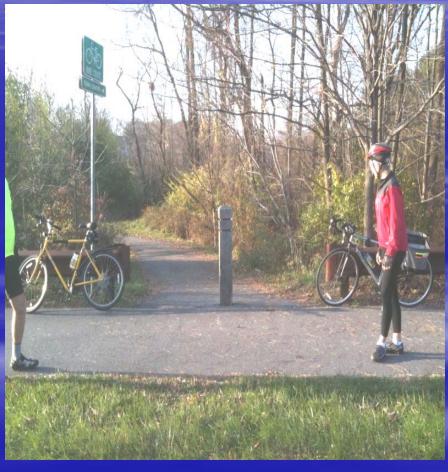
M Trail-Bollard Placement





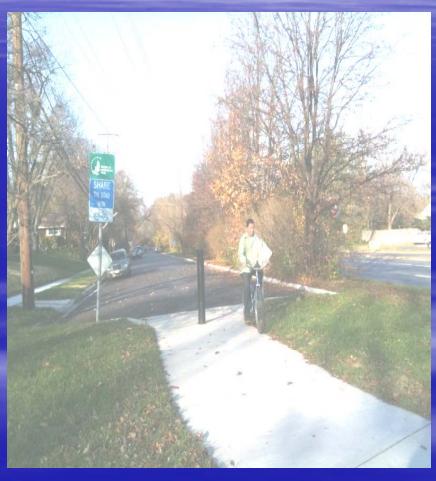
M Trail –Bollards SW Quadrant





M Trail - Intersections





M Trail Intersections

- Bikeway intersection with roadway is not obvious
- Millennium Trail signs are not always placed at departure legs of intersection
- Pavement markings, destination signs, center line striping and Millennium Trail street name signs would increase recognition

M Trail intersections with other trails "Duh...Which way do I go?"



- Install center line striping along M Trail alignment at these locations
- Add destination signs prior to trail fork



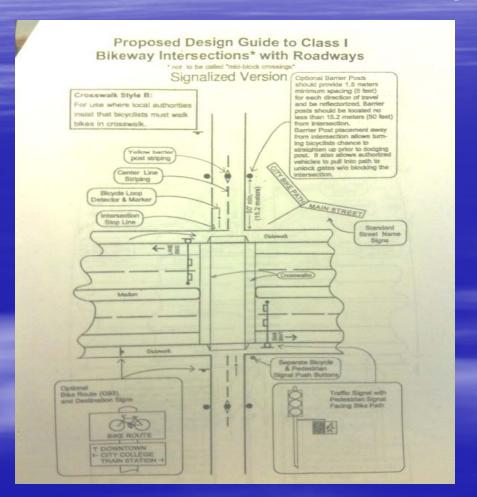
M Trail Intersections Examples from Others

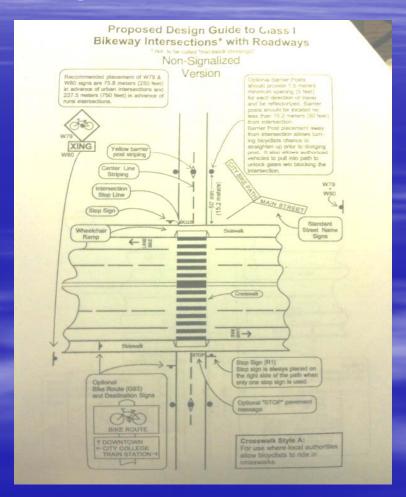




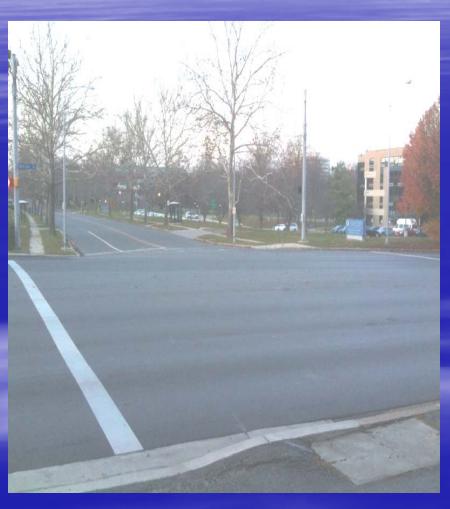


M Trail – Intersections General principles





M-Trail Intersections West Gude Drive



- "T"-Roadway intersections along West Gude Drive
- Connections between perpendicular roadways and MT have missing curb cuts and crosswalks
- Encourages wrongway bicycling

Millennium Trail East Gude Drive



- No crosswalk markings at trail/driveway locations
- Crosswalks would increase driver awareness
- Colored x-walk markings??



Millennium Trail East Gude Drive



- Parked vehicles encroach on trail r.o.w.
- Install physical barrier between trail & lot
- Mark driveway apronas trail crossing.

Partnership with Montgomery College-Rockville



- Create bicycle routes
 with destination
 signing to Montgomery
 College
- Promote bicycle education courses there
- Support "Bike To College Day" events

Evaluate Bike Access to Rockville Pike Shopping Strip

- MD 355 is not bicycle friendly
- Bicycle racks not widely available at shopping centers
- Consider one-way sidewalk bikeways
- Would need to gain support of State Highway Administration
- Improving bike access along MD 355 would improve level of bike friendliness in Rockville

Encourage Bicycle Commuting Through Social Marketing



- Promotional efforts should extend beyond B2WD
- Consider internet, newspaper, outdoor, transit media strategies



Bicycle Promotion in Copenhagen, New York and Cape Town







Social Promotion of Bicycling

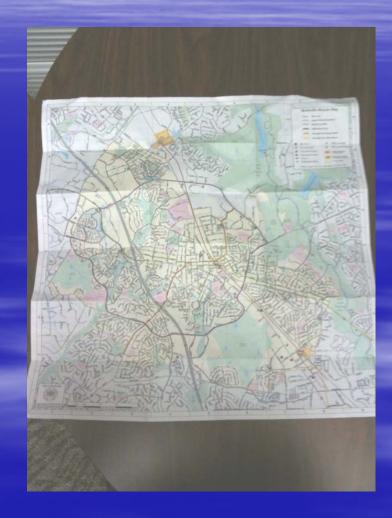




- San Diego's "Lose the Roaditude" campaign billboard
- Choose Cycling in Howard County bumper sticker
- Mimics popular
 "Choose Civility in Howard County"
 bumper stickers

Comprehensive Bikeway Network for Rockville





Comprehensive Bikeway Network for Rockville



- Rockville has made a start on bikeway signing
- Recommendation of a comprehensive network
- Bikeways should crisscross city and connect with outlying areas

Which signs provides better information?

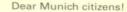




City of Munich Comprehensive Signing System Brochure



Hep Monatzeder Deputy Mayor



The proceeding development of the cycle network that the Department of Public Construction of the City of Munich has already extended up to a reach of 1,200 kilometres requires a redesign of the existing signage to meet today's requirements.

Supported by a traffic psychologist, the BMW Group initiated and worked out a new signage system that – after a hearing – got especially adjusted to Munich circumstances. On December 5th 2006, the Municipal Council of the City of Munich entrusted the Department of Public Construction with the realisation of this concept. The existing signage will gradually get replaced.

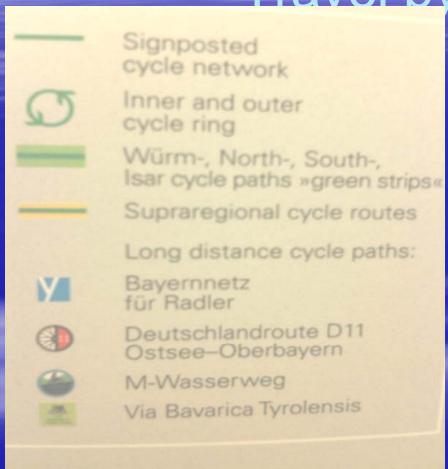
I am very pleased that – as commissioned by the Municipal Council – the reference routes are provided with the new signage right on time for the Velo-city conference. Within the next four years all existing signposts will get exchanged.

Rosemarie Hinger

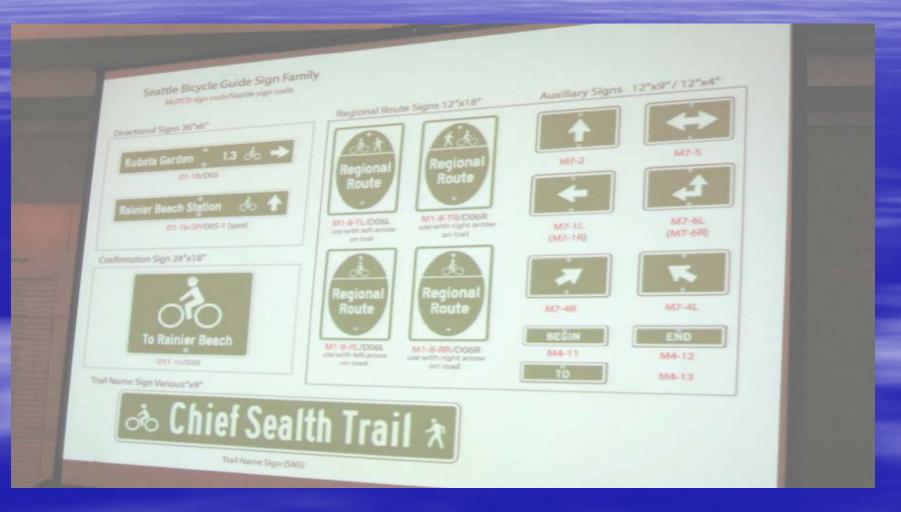
Member of the City Council
Head of Munich's Department of Public Construction

Munich Bikeway Designation Categories & Galway, Ireland Bike

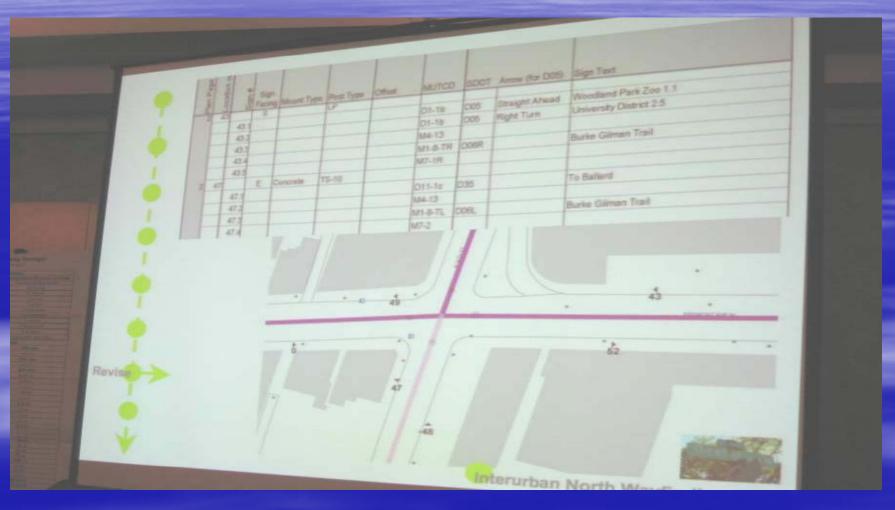
Travel by Minutes

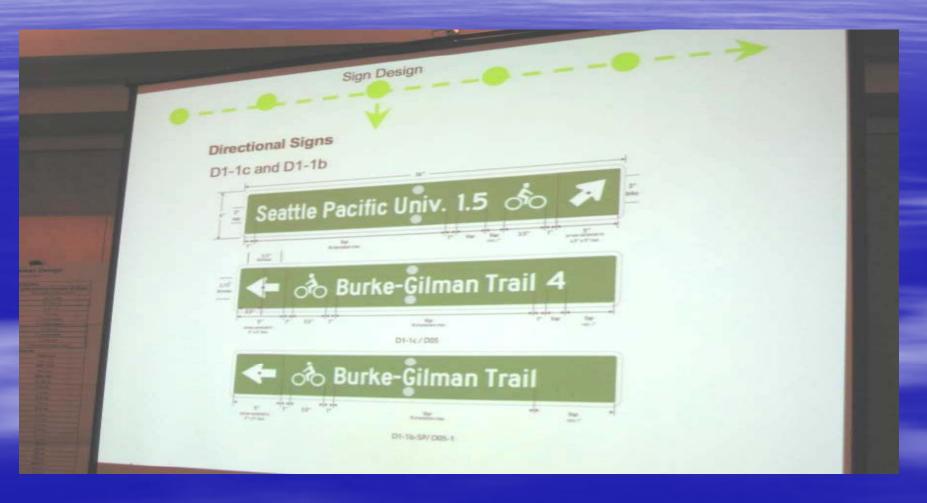




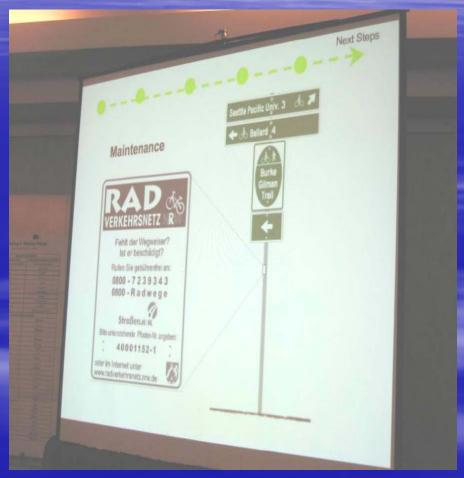










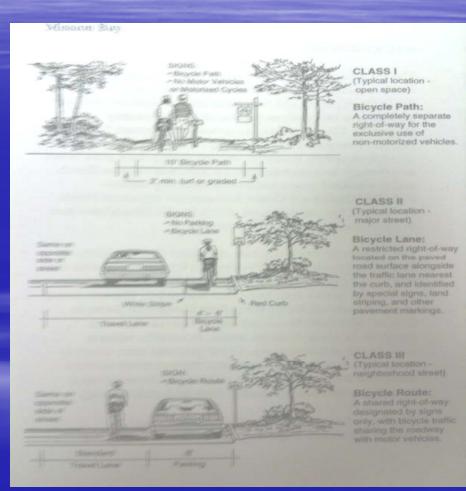


Comprehensive Bikeway Signing Network for Rockville Recommendations

- Drop orange and yellow route designations
- Bike route signs and destination plates should be of equal width
- Consider "Control City" concept of destination signing
- Consider named routes or alpha-numeric designations for bikeway corridors (e.g. North-South Bikeway or Bike Route A-4)

City of San Diego Bikeway Design General Specifications

- Bike Paths are identified with signs
- Bike lanes are identified with signs and pavement markings
- Shared use roadways are marked with BikeRoute signs



Conclusions

- Consider 5 E's for next step categories
- Establish priorities
- Rome wasn't built in a day...Plan long-term
- Work with partners...county, state, college, advocates
- Good luck!



Questions or Comments?

- Michael Jackson
- Director of Bicycle and Pedestrian Access
- Maryland Department of Transportation
- mjackson3@mdot.state.md.us
- **410-865-1237**