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## **Executive Summary**

#### Overview

The *Bicycle and Pedestrian Plan for the National Capital Region* identifies the capital improvements, studies, actions, and strategies that the region proposes to carry out by 2030 for major bicycle and pedestrian facilities. The National Capital Region Transportation Planning Board (TPB), composed of governments and agencies from around metropolitan Washington, has developed this plan with the support of its Bicycle and Pedestrian Subcommittee. The plan builds upon the 1998 *TPB Vision* to guide the region's transportation investments into the 21st Century. This is the first all-new regional plan specifically for bicycle facilities since 1995, and represents the first-ever regional pedestrian facilities plan.

In addition to building upon the *TPB Vision*, the *Bicycle and Pedestrian Plan for the National Capital Region* draws on and has been shaped by a number of regional, state, and local policy statements, plans, and studies. These include the TPB's *Transportation and Community and System Preservation Greenways* and *Circulation Systems Reports* (published in 2001); the TPB's regularly updated Constrained Long Range Plan (CLRP) and Transportation Improvement Program (TIP); federal and state guidance on bicycle and pedestrian facilities; and a wealth of state and local bicycle and pedestrian plans from around the region.

The *Bicycle and Pedestrian Plan for the National Capital Region* is intended to be advisory to the CLRP and TIPs, and to stand as a resource for planners and the public. In contrast to the CLRP, the *Bicycle and Pedestrian Plan* includes both funded and unfunded projects – projects in this plan may not yet have funding identified to support their implementation.

#### **Planning Context**

A number of federal, state, and local activities, as noted above, provide the planning context (Chapter 1) for this document. Jurisdictions and agencies around the region maintain active bicycle and pedestrian planning and coordination programs. Within this context, the TPB incorporates bicycle and pedestrian considerations into overall regional transportation planning, bike-to-work components of the Commuter Connections program, and the region's Access for All Committee concerning minority, low-income, and disabled communities. The TPB supports bicycling and walking and their health, community, pollution reduction, and congestion reduction benefits for the region.

#### **Bicycling and Walking in the National Capital Region**

The state of bicycling and walking in the Washington region (Chapter 2) includes success stories, challenges, and opportunities for improvement. Data from the U.S. Census, surveys, and

other sources provide an understanding of where bicycling and walking are found throughout the region, as well as who is walking and bicycling. These data may point to opportunities for increasing these activities, and support the need to consider bicycling and walking in overall roadway and transit planning and engineering.

#### **Safety**

Bicycle and pedestrian safety (Chapter 3) is a key challenge for the region. The plan describes the scope of the safety problem, its geographic and demographic distribution across the region, and the legal rights and responsibilities of drivers, pedestrians, and bicyclists. Unfortunately, throughout the region bicycle and pedestrian safety issues are found. The region and member agencies are actively pursuing a number of engineering, enforcement, and educational strategies to reduce deaths and injuries.

#### **Existing Facilities**

The Washington region benefits from a number of popular bicycle and pedestrian facilities in place in our communities (Chapter 4). The region's transit agencies have also worked to provide access and accommodation of bicycling and walking to and on their systems. A goal of this plan is to complement and augment the existing system of facilities.

#### **Best Practices**

Convenient and safe bicycle and pedestrian access is a key goal of the TPB's *Vision*. To help achieve this, the Bicycle and Pedestrian Subcommittee developed a set of recommended best practices (Chapter 5) for the design and implementation of bicycle and pedestrian facilities, as well as for the incorporation of bicycling and walking considerations into overall roadway and transit design. Best practices are based upon national and state laws and guidelines.

#### Planned Bicycle and Pedestrian Facilities and Improvements

Improvements included on the plan's list of regional bicycle and pedestrian projects (overview in Chapter 6 and the full listing in Appendix A) were identified, submitted and reviewed by agency staffs of TPB member jurisdictions. The plan includes approximately 350 bicycle and pedestrian facility improvement projects from across the region. If every project in the plan were implemented, in 2030 the region will have added over 200 miles of bicycle lanes, over 400 miles of shared-use paths, hundreds of miles of signed bicycle routes (signage without additional

construction), more than 50 pedestrian intersection improvements, and a number of pedestrian/bicycle bridges or tunnels. Two new bicycle and pedestrian crossings over the Potomac would be created, at the American Legion and Woodrow Wilson Bridges, and bridges over the Anacostia River would be improved for pedestrians and bicyclists. In addition, major streetscaping projects would improve pedestrian and bicycle access and amenities in Ballston, Bethesda, Clifton, Haymarket, Manassas, Tysons Corner and other locations.

#### Costs

Total estimated cost of projects in the draft plan is about \$530 million (2006 dollars). 35% of the plan projects have specific agency-submitted cost estimates, totaling about \$190 million of the \$530 million. About \$110 million of the \$190 million is for projects included in the CLRP. For the remaining 65% of draft plan listings project-specific cost estimates were not available. Total estimated cost for projects without an agency-submitted estimate was imputed on a mileage and project type basis at about \$340 million of the \$530 million. Cost estimates should be considered as order-of-magnitude and in most cases do not reflect engineering-level estimates.

#### **On-Line Resources**

Development of the *Bicycle and Pedestrian Plan for the National Capital Region* has benefited from an on-line plan project database, a resource separate from the printed document. For the first time, Bicycle and Pedestrian Subcommittee members were able to view, enter, and edit their project listings on-line. This on-line database will facilitate keeping the regional list accurate and up-to-date, and will facilitate integration of information from this plan into the region's *Constrained Long-Range Plan* and Transportation Improvement Program as necessary. An online version of this plan also will be maintained for public access on the TPB's Web site at <a href="http://www.mwcog.org">http://www.mwcog.org</a>, under transportation/planning activities/bicycle and pedestrian planning.

#### Outlook

Overall, the TPB's *Vision* calls for convenient, safe bicycle and pedestrian access, walkability in regional activity centers and the urban core, reduced reliance on the automobile, increased walking and bicycling overall, inclusion of bicycle and pedestrian facilities in new transportation projects and improvements, and implementation of a regional bicycle and pedestrian plan. The *Bicycle and Pedestrian Plan for the National Capital Region* provides a blueprint for making the region a better place for bicycling and walking.

## Introduction

## Bicycling, Walking and the Vision of the Transportation Planning Board

The National Capital Region Transportation Planning Board has long recognized the benefits of bicycling and walking in the region's multi-modal transportation system. The Transportation

Planning Board's *Transportation Vision* for the 21<sup>st</sup> Century, adopted in 1998, emphasizes bicycles and pedestrians in its goals, objectives and strategies. A key part of the *Vision* is a strong urban core and a set of regional activity centers, which will provide for mixed uses in a walkable environment and reduced reliance on the automobile. The *Vision* also calls for the implementation of a regional bicycle and pedestrian plan. Recommendations in this plan will help realize the *Vision*.

## Bicycling and Walking in the National Capital Region

The Washington region is nationally known for the quality, beauty, and extent of its bicycle paths. Its walkable core neighborhoods attract residents and visitors alike. The region has a strong foundation of walking and bicycling facilities to build upon. <sup>1</sup>



The Urban Core has a Growing Network of Bicycle Lanes

Taken together, bicycling and walking is a significant mode of transportation in the Washington

Walking and Bicycling account for 8.3% of all trips in the region

region. According to the Metropolitan Washington Council of Governments' 1999 Household Travel Survey there are roughly 1.1 million pedestrian trips per day in the region, which is 7.8% of all trips. There are roughly 76,000 bicycle trips per day in the region, which is one-half of one percent of the almost 14 million daily trips for all modes of transportation.

Recent years have seen progress for bicyclists and pedestrians. Several major new trails have opened, and most local governments have adopted

bicycle, pedestrian, and/or trail plans. The Washington Metropolitan Area Transit Authority has

i-1

<sup>&</sup>lt;sup>1</sup> DC Bicycle Lane Photo: COG/TPB /Michael Farrell

eliminated the requirement for bike-on-rail permits, expanded bicycle boarding hours, and added bike racks to its buses. Bicycle or pedestrian coordinators and trail planners are now found at most levels of government. In accordance with federal guidance and new state policies, pedestrian and bicycle facilities are increasingly being provided as part of larger transportation projects. Employers are investing in bike facilities at work sites, and developers are including paths in new construction.<sup>2</sup>



The Capital Crescent Trail Bridge over Rock Creek, Chevy Chase, MD opened in 2003

Bicycling and walking could reach a greater potential in the Washington region, however. Many trips currently taken by automobile could potentially be taken by bicycle. The average work trip length for all modes in the Washington Metropolitan Statistical Area is 16.2 miles.<sup>3</sup> But 17% of commute trips are less than five miles, a distance most people can cover by bicycle.

Many people who live far from their jobs, but closer to transit or a carpool location could walk or bike to transit or the carpool instead of driving. The average trip distance to transit or carpool is only 3.1 miles.<sup>4</sup> Only 15% of transit

riders and carpoolers travel more than five miles to the transit or carpool location<sup>5</sup>

The potential for shifting non-work trips to bicycling or walking is probably even greater than for work trips. The average non-work trip is a little more than

five miles, and nearly 3/4 of all trips are non-work trips.<sup>6</sup> Destinations such as schools, shopping, and recreational facilities are often close enough to walk or bicycle. Bicycling and walking have considerable potential to displace automobile trips if suitable transportation, design, safety, parking, school siting, and land development policies are followed.

<sup>&</sup>lt;sup>2</sup> Capital Crescent Trail Photo: Montgomery County DPWT/ Wayne Phyllaier

<sup>&</sup>lt;sup>3</sup> National Capital Region Transportation Planning Board, 2004 State of the Commute Survey Report, November, 2004, p. 22.

<sup>&</sup>lt;sup>4</sup> Ibid, p. 27.

<sup>&</sup>lt;sup>5</sup> Ibid, p. 27.

<sup>&</sup>lt;sup>6</sup> National Capital Regional Transportation Planning Board, 1994COG/TPB Household Travel Survey: Summary of Major Findings, January, 1998. Page 5.

#### **Plan Development and Organization**

This plan has been prepared by the National Capital Region Transportation Planning Board, the federally designated Metropolitan Planning Organization (MPO) for the Washington region. The TPB is made up of representatives of 20 local governments, the departments of transportation of Maryland, Virginia, and the District of Columbia, the state legislatures, and the Washington Metropolitan Area Transit Authority (WMATA). Member jurisdictions are shown in Figure i-1 on page i-4. The area of the TPB members plus Calvert County in Maryland and Stafford County in Virginia comprises the Washington, DC-MD-VA Metropolitan Statistical Area (MSA).

This document presents the long-range Bicycle and Pedestrian Plan for the Washington Region through the year 2030. The plan is a list of regional projects identified by the TPB member jurisdictions, accompanied by recommended best practices and a description of existing facilities and regional trends for bicycling and walking. This plan includes both funded and unfunded projects. It does not specify design guidelines, but refers instead to state and national guidelines for bicycle and pedestrian facilities.

This update of the *Bicycle and Pedestrian Plan for the National Capital Region* seeks to reflect the goals, objectives and strategies of the 1998 *TPB Vision* while building on information from previous bicycle plans.

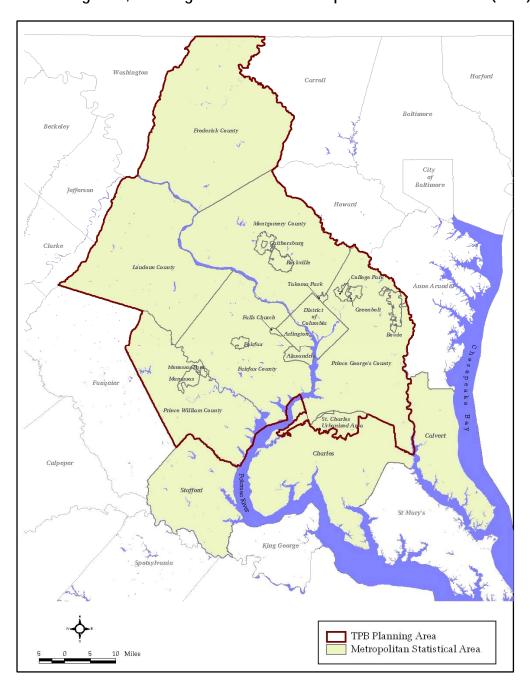
This update also fully incorporates pedestrian issues for the first time. Pedestrian planning is most needed at the county, city and neighborhood level. There is, however, a role for regional pedestrian planning. By recommending policies and keeping track of regional trends, we can help make the Washington area a better place to walk.<sup>7</sup>



The New York Avenue Metro Station Incorporates a Shared-Use Path and Bicycle Parking

<sup>&</sup>lt;sup>7</sup> New York Avenue Metro Station Photo: DDOT/Jim Sebastian

Figure i-1
TPB Planning Area, Washington DC-MD-VA Metropolitan Statistical Area (MSA)



## **Chapter 1**

Planning Context

#### Overview

This *Bicycle and Pedestrian Plan for the National Capital Region* draws on and has been shaped by a number of regional, state, and local policy statements, plans, and studies, including the Vision of the Transportation Planning Board, the TCSP (Transportation and Community and System Preservation) reports, federal and state guidance on provision of bicycle and pedestrian facilities, the Constrained Long Range Plan and Transportation Improvement Program, and state and local bicycle and pedestrian plans.

### The Vision of the Transportation Planning Board

The National Capital Region Transportation Planning Board is the Metropolitan Planning Organization for the Washington region. It brings key decision-makers together to coordinate planning and funding for the region's transportation system.

The TPB's official vision statement for the region, the Transportation Vision for the 21st

*Century*, adopted in 1998, is meant to guide regional transportation investments into the new century. The *Vision* is not a plan with a map or specific lists of projects. It lays out eight broad goals, with associated objectives and strategies that will help the region reach its goals.

The Vision of the TPB calls for more Walking and Biking

The *Vision* is supportive of pedestrians and bicyclists. It calls for:

- Convenient, safe bicycle and pedestrian access
- Walkable regional activity centers and urban core
- Reduced reliance on the automobile
- Increased walk and bike mode share
- Including bicycle and pedestrian facilities in new transportation projects and improvements
- Implementation of a regional bicycle and pedestrian plan

Sections of the *Vision* relating to bicycle and pedestrian goals are highlighted in Table 1-1. The full text of the *Vision* is available at <a href="https://www.mwcog.org/transportation">www.mwcog.org/transportation</a>.

This plan is intended to help fulfill the goals of the *TPB Vision* for Bicyclists and Pedestrians; recommendations in this plan reflect the goals of the *Vision*.

In addition to the specific references in Table 1-1, many other aspects of the *Vision* address bicyclists and pedestrians, such as: maintaining the existing transportation system, reducing the per capita vehicle miles traveled, linking land use and transportation planning, and achieving enhanced funding for transportation priorities.

## Table 1-1: Bicycle and Pedestrian Provisions of the Transportation Vision

- Goal 1. The Washington metropolitan region's transportation system will provide reasonable access at reasonable cost to everyone in the region.
- Objective 4: Convenient bicycle and pedestrian access.
- Strategy 3: Make the region's transportation facilities safer, more accessible and less intimidating for **pedestrians**, **bicyclists**, and persons with special needs.
- Goal 2. The Washington metropolitan region will develop, implement, and maintain an interconnected transportation system that enhances quality of life and promotes a strong and growing economy through the entire region, including a healthy regional core and dynamic region activity center with a mix of jobs, housing, and services in a walkable environment.
- Objective 2: Economically strong regional activity centers with a mix of jobs, housing, services, and recreation in a walkable environment.
- Objective 4: Improved internal mobility with reduced **reliance on the automobile** within the regional core and within regional activity centers.
- Goal 5. The Washington metropolitan region will plan and develop a transportation system that enhances and protects the region's natural environmental quality, cultural and historic resources, and communities.
- Objective 3: Increased transit, ridesharing, **bicycling and walking** mode shares.
- Strategy 7: Implement a regional **bicycle/trail/pedestrian plan** and include **bicycle and pedestrian facilities** in new transportation projects and improvements.

Accompanying the *Vision* is a shorter action agenda with elements to be included in the year 2000 long range transportation plan for the region. Item four on the action agenda calls for a regional congestion management system to achieve significant reduction in single occupant vehicles (SOVs) entering the regional core and regional activity centers by:

• designing and developing circulation systems that maximize the use of transit (rail, monorail, bus, jitney, etc.) and **pedestrian and bicycle** facilities

## **Encouraging Bicycling and Walking: Bike to Work Day, the Bike to Work Guide, and Guaranteed Ride Home**

To help realize the *TPB Vision* and reduce congestion, air pollution, and single occupant vehicle traffic, the TPB has developed several programs to encourage bicycling and walking in the Washington region. As part of its Commuter Connections program, every year on the third Friday in May the TPB sponsors a regional Bike to Work Day. This event has grown into one of the largest of its kind in the country, attracting over six thousand riders to more than twenty "pit stops" or rallying points around the region. The event is meant to encourage first-time riders to try bicycling to work.

The Commuter Connections program also supports publication of *Biking to Work in the Washington Area: A Guide for Employers and A Guide for Employees*, which provides tips for employees and employers. For employees, there are tips on safe cycling, laws, equipment and clothing, and transit connections. For employers, the guide explains the benefits of bicycling to the employer, the types of bicycle parking, and the ways an employer can encourage an employee to bike to work. Commuter Connections also makes available on-line a regional map of existing bicycle facilities, park and ride lots with bicycle parking, transit, and HOV lanes. The Bicycle and Pedestrian Subcommittee also publishes a map of regional bicycle facilities in cooperation with the ADC Map Company. Maps can be ordered at <a href="https://www.adcmap.com">www.adcmap.com</a>.

People sometimes drive to work because they need to be able to get home quickly in an emergency. To meet that need and help get more people out of their cars, the Commuter Connections program offers a free taxi ride home in an emergency for commuters who regularly (twice a week) carpool, vanpool, bike, walk or take transit to work. Commuters who sign up for the Guaranteed Ride Home program may use it up to four times per year.

#### Priorities 2000: Metropolitan Washington Greenways and Circulation Systems

The Greenways and Circulation Systems Reports identify specific projects that support the TPB Vision In 1999 the TPB undertook the preparation of two reports: *Priorities* 2000: *Metropolitan Washington Greenways*, and *Priorities* 2000: *Metropolitan Washington Circulation Systems*<sup>2</sup>. The reports were funded by the Federal Highway Administration under the Transportation and Community and System Preservation (TCSP) Pilot Program. The grant was intended to support two key components of the TPB vision: improving circulation within the regional core and regional activity centers, and integrating greenspace into a regional greenways system. The *Greenways Report* supports the greenways and trails component of the TPB vision, while the *Circulation Systems Report* 

supports the goal of improving circulation, especially non-motorized circulation, within the

<sup>&</sup>lt;sup>1</sup> The Bike to Work Guide is available at www.mwcog.org/commuter/ccindex.html

<sup>&</sup>lt;sup>2</sup> Both reports can be downloaded under "Information and Publications" at www.mwcog.org

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urban core and the regional activity centers. The two *Priorities 2000* reports provided key input to this bicycle and pedestrian plan.

The Greenways Report identified eight regional priority trail projects, and twelve local projects,

as well as nine major existing greenways. Projects were selected as regional priorities based on five criteria:

- Potential inter-jurisdictional connection
- Fill a critical gap
- Provide ecological benefits
- Links to existing or planned greenway
- Provide community access to the regional greenway network

The *Greenways Report* also provides strategies for identifying, planning, implementing, and managing greenways projects.<sup>3</sup>



Regional priority projects, local priority projects, and selected existing greenways from the Greenways Report are shown in Appendix M. Several of these greenways have been completed since this report was published, while others have been advanced significantly.

#### **Priorities 2000: Circulation Systems**

The Circulation Systems Report focused on local circulation systems within the regional core and within regional activity centers. Places such as Tyson's Corner have grown to urban densities while relying almost entirely on the automobile for internal mobility, leading to worsening congestion. There is tremendous interest in improving internal pedestrian, bicycle, and transit mobility in such centers.

The Circulation Systems Report identified candidate and priority projects for improving internal circulation. Out of 51 candidate projects identified, 34 were pedestrian or bicycle projects. Projects were selected as regional priorities using the following criteria:

- location in a regional activity center
- readiness for implementation
- included in a local plan

<sup>&</sup>lt;sup>3</sup> C&O Towpath Photo: COG/TPB, Michael Farrell

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- safety
- air quality
- economic development
- households served
- employees served
- cost

The following projects were selected as regional priorities:

- 1. Downtown DC Circulator
- 2. New York Avenue Metro Station Access
- 3. Union Station Bike Station
- 4. Montgomery County CBD Shuttle Package
- 5. Rockville Town Center
- 6. Suitland Metro Area Bus and Pedestrian Improvements
- 7. Old Town Fairfax Redevelopment
- 8. Rosslyn Circle Crossing
- 9. Tyson's Corner Pedestrian Improvements

Of the nine regional priority circulation projects, seven are wholly or partially pedestrian or bicycle projects.

The *Greenways and Circulation Systems Reports* continue to serve as a resource for planners in the Washington region. They also represent the most recent statement of regional bicycle and pedestrian priorities, and a majority of the projects chosen as priorities have either been implemented or have been advanced significantly since the TCSP reports were issued. The TCSP selection criteria for regional priority have been incorporated into the information in the regional bicycle and pedestrian database.

#### **Federal and State Policies**

Virginia now requires "routine accommodation" of pedestrians and bicyclists in transportation projects

U.S. Department of Transportation guidance issued in 2000 calls for bicycling and walking facilities to be incorporated into all transportation projects unless exceptional circumstances exist. In 2004, the Virginia Department of Transportation released its policy for bicycle and pedestrian accommodation, which commits VDOT to routinely accommodating pedestrians and bicyclists as part of all new construction and reconstruction projects, unless exceptional circumstances exist. The State of Maryland's Bicycle and Pedestrian Access Act provides that "Access to and use of transportation facilities by pedestrians and bicycle riders shall be considered in all phases of transportation planning,

<sup>&</sup>lt;sup>4</sup> www.virginiadot.org

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including highway design, construction, reconstruction, and repair." The Maryland Department of Transportation is to "work to ensure" that transportation options for pedestrians and bicycle riders will be enhanced and not negatively impacted by a project or improvement.

Routine accommodation policies are sometimes known as "complete streets" policies. "Complete streets" are defined as streets that are designed and operated to enable safe access for all users, including motorists, pedestrians, bicyclists, and transit users, as well as senior citizens, children, and persons with disabilities. Oregon, Virginia, South Carolina, and a number of other regions and cities have adopted such policies.

Federal and State policies have evolved, from not requiring (or in some cases prohibiting) the use of transportation funds for pedestrian or bicycle facilities, towards requiring the provision of such facilities. These new federal and state guidelines and policies will likely lead to an increase in the number of pedestrian and bicycle facilities provided, with more facilities provided as part of larger transportation projects rather than as stand-alone projects.

#### **Americans with Disabilities Act**

The Americans with Disabilities Act (ADA) is a federal civil rights statute that prohibits discrimination against people who have disabilities. Under the ADA, designing and constructing

facilities that are not usable by people with disabilities constitutes discrimination. Public rights of way, including pedestrian facilities, are required by federal law to be accessible to people with disabilities.

Both new and altered pedestrian facilities must be made accessible to persons with disabilities, including those who are blind or visually impaired. The courts have held that if a street is to be altered to make it more usable by the general public, it must also be made more usable for those with disabilities.

The ADA Requires that all New and Altered Pedestrian Facilities be made Accessible to the Handicapped

Government facilities which were in existence prior to the effective dates of the ADA and which have not been altered are not required to be in full compliance with facility standards developed for new construction and alterations. However, they must achieve 'program access.' That is, the program must, when viewed in its entirety, not deny people with disabilities access to government programs and services. For example, curb ramps may not be required at every existing walkway if a basic level of access to the pedestrian network can be achieved by other means, e.g., the use of a slightly longer route. Municipalities should develop plans for the

<sup>&</sup>lt;sup>5</sup> Maryland Department of Transportation, *Twenty Year Bicycle and Pedestrian Access Master Plan*, October, 2002. p. 32.

<sup>&</sup>lt;sup>6</sup> www.completestreets.org

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installation of curb ramps and accessible signals such that pedestrian routes are, when viewed in their entirety, accessible to people who are blind or visually impaired within reasonable travel time limits. <sup>7</sup>

Design standards for the disabled, such as smoother surfaces, adequate width, and limits on cross-slope, are also beneficial for the non-disabled pedestrian. Good design for persons with disabilities is good design for all.

#### **SAFETEA-LU**

Under the SAFETEA-LU (Safe, Accountable, Flexible, Efficient Transportation Equity Act: Legacy for Users) federal transportation bill signed in August 2005, bicycle and pedestrian projects remain broadly eligible for nearly all funding categories, either for projects incorporated into something larger, or for stand-alone bicycle and pedestrian projects. The bill authorizes \$286 billion for highways and transit from 2005 through 2009, a 22% increase over the previous federal transportation bill, TEA-21.

Transportation Enhancements, half of which historically have been spent on bicycle or pedestrian projects, are funded nationally at a level of \$3.25 billion over five years. The Recreational Trails Program sets aside \$110 million for non-motorized trails. SAFETEA-LU also contains a number of high priority projects, sometimes known as legislative earmarks, many of which are bicycle or pedestrian projects. Pedestrian and bicycle projects are *not*, however, limited to set-aside programs and high priority projects. They are broadly eligible for funding from highway and transit funds.

#### **Safe Routes to School**

Aside from the general increase in funding under SAFETEA-LU, the most important new set-aside for bicyclists and pedestrians is the Safe Routes to School (SRTS) Program. The goals of the program are to enable and encourage children to walk and bike to school, improve safety, and reduce traffic and air pollution near schools. Eligible activities include both infrastructure and non-infrastructure projects. Infrastructure projects include bicycle parking, crosswalks, sidewalks, traffic calming, on and off-street bicycle facilities, etc. on any public road or trail in the vicinity of a school. Non-infrastructure projects include public awareness and outreach to encourage walking and bicycling to school, traffic education and enforcement near schools, student sessions, training, SRTS program managers, and a State Coordinator. Not less than 10% or more than 30% of SRTS funds must be set aside for non-infrastructure projects.

<sup>&</sup>lt;sup>7</sup> American Council for the Blind, *Pedestrian Safety Handbook: A Handbook for Advocates.* www.acb.org

<sup>&</sup>lt;sup>8</sup> See www.bikeleague.org for further information on the Bicycle and Pedestrian provisions of SAFETEA-LU.

Funds will be administered by State Departments of Transportation, with 100% federal share – no local match required. Each state is to receive funds in proportion to K-8 school enrollment, but not less than \$1 million. The budget will grow from \$54 million in 2005 to \$183 million in 2009.

#### **Constrained Long-Range Plan**

The financially Constrained Long-Range Transportation Plan (CLRP) is a comprehensive plan of transportation projects and strategies that the TPB realistically anticipates can be implemented over the next 25 years. The region's transportation agencies and jurisdictions submit projects for the CLRP, which is developed and approved by the TPB. The CLRP is the primary vehicle for realizing the *TPB Vision* and the States' long-range plans. Federal law requires that the CLRP be updated every four years; the most recent version was adopted in 2004. To receive federal funding, a transportation project in metropolitan Washington must be included in the CLRP. Because funds must be reasonably anticipated to be available for all the projects in the CLRP, the CLRP is realistic plan based upon available resources.

The CLRP identifies a few important bicycle projects, as well as discussing the actions of the Bicycle and Pedestrian Subcommittee to promote pedestrian and bicycle safety, walkable communities, and better professional development and training. Training in the requirements of the Americans with Disabilities Act with respect to pedestrian facilities has been a major emphasis.

Bicycle and pedestrian projects in the 2005 CLRP are listed in Appendix C. Historically, less than 1% of the capital funding in the CLRP has been specifically for stand-alone bicycle and pedestrian projects. However, since bicycle and pedestrian projects are usually small projects, they are often added to the plan later than the major highway and transit projects. Moreover, much pedestrian and bicycle spending is subsumed within larger highway or transit projects, and thus is not reflected in the amount programmed for bicycle and pedestrian projects. Therefore, the CLRP may under-estimate the amount of bicycle and pedestrian spending that will occur over the next 25 years. State Departments of Transportation may also increase funding levels in the future as they implement policies to routinely accommodate pedestrians and bicyclists in all new transportation projects.

Under SAFETEA-LU bicyclists, pedestrians, and people with disabilities are explicitly required to be given an opportunity to comment on metropolitan transportation plans.

#### **Transportation Improvement Program**

The Transportation Improvement Program (TIP) provides detailed information showing which projects in the CLRP will be completed over the next six-year period. The TIP is updated every year. Like

The Transportation Improvement Program includes \$122 million for pedestrian and bicycle projects

### CHAPTER 1: PLANNING CONTEXT

the CLRP, the TIP is subject to federal review. Many projects in the TIP are staged, so a single CLRP project could end being split into multiple TIP projects.

Bicycle and pedestrian projects that use federal funds are listed in the TIP. For example, the Fiscal Year 2006-2011 TIP includes \$122 million for bicycle and pedestrian projects. Of that, \$69 million is programmed for FY 2006, which is 2.4 % of the total capital funds for all transportation projects programmed for FY 2006. As with the CLRP, funds spent on bicycle and pedestrian accommodations as part of a larger highway or transit project are often subsumed in budget of the larger project.

#### **Local Bicycle and Pedestrian Planning**

Nearly every jurisdiction in the region has completed a bicycle or pedestrian plan, and most have at least part time bicycle or pedestrian planner. Table 1-2 shows local and state plans and studies and the year published. Jurisdictions and agencies drew projects from these individual plans and submitted them for incorporation into the Regional Bicycle and Pedestrian Plan. Local plans may include unfunded projects.

Table 1-2: Major Bicycle and Pedestrian Plans and Studies Of the Washington Region

| Jurisdiction/<br>Agency                                     | Plan/Study                                                                                                             | Year          |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------|
| Arlington                                                   | Pedestrian Transportation                                                                                              | 1997,         |
| County                                                      | Plan, Bicycle Transportation Plan                                                                                      | 1994          |
| City of<br>Alexandria                                       | Bicycle Transportation and Multi-Use Trail Plan                                                                        | 1998          |
| District of<br>Columbia                                     | District of Columbia Bicycle<br>Master Plan                                                                            | 2005          |
| Fairfax<br>County                                           | Countywide Trails Plan                                                                                                 | 2002          |
| Frederick County                                            | Frederick County Bikeways and Trails Plan                                                                              | 1999          |
| City of Gaithersburg                                        | Bikeways and Pedestrian Plan                                                                                           | 1999          |
| Loudoun County                                              | Loudoun County Bicycle and<br>Pedestrian Master Plan                                                                   | 2003          |
| Maryland<br>Department of<br>Transportation                 | Twenty Year Bicycle and<br>Pedestrian Access Master Plan                                                               | 2002          |
| MNCPPC –<br>Prince George's County                          | Transportation Priority List (Joint Signature Letter)                                                                  | 1999          |
| Montgomery<br>County                                        | Countywide Bikeways<br>Functional Master Plan                                                                          | 2005          |
| National Capital Planning Commission                        | Comprehensive Plan for the<br>National Capital                                                                         | 2004          |
| National Capital Region<br>Transportation Planning<br>Board | Priorities 2000: Metropolitan Washington Greenways & Circulation Systems, Bicycle Plan for the National Capital Region | 2001,<br>1995 |
| National Park<br>Service                                    | Paved Recreation Trails Plan                                                                                           | 1990          |

| Jurisdiction/<br>Agency | Plan/Study                  | Year       |
|-------------------------|-----------------------------|------------|
| 9 •                     |                             |            |
| Prince William          | Thoroughfares Plan (part of | 1998, 1993 |
| County                  | Comprehensive Plan),        |            |
|                         | Greenways and Trails Plan   |            |
| City of                 | Bicycle Master Plan         | 1998       |
| Rockville               |                             |            |
| Virginia Department of  | Northern Virginia Regional  | 2003       |
| Transportation,         | Bikeway and Trail Network   |            |
| Northern Virginia       | Study                       |            |
| Office                  |                             |            |

Table 1-3 shows the approximate number of full-time planners each agency has working on bicycle, pedestrian, and trails planning.

Table 1-3: Agency Bicycle/Pedestrian Planning Staff Full-Time Equivalents (FTE's)

| Jurisdiction/<br>Agency | Bicycle Planner<br>FTE's | Pedestrian Planner<br>FTE's | Trails Planner<br>FTE's |
|-------------------------|--------------------------|-----------------------------|-------------------------|
| Arlington<br>County     | 1                        | 1                           | 1                       |
| City of<br>Gaithersburg | 0.5                      |                             |                         |
| City of<br>Alexandria   | 0.5                      | 0.5                         |                         |
| City of College Park    | 0.5                      |                             |                         |
| City of<br>Rockville    | 0.5                      | 0.5                         |                         |
| District of<br>Columbia | 2                        | 1                           | 1                       |
| Fairfax<br>County       | 1                        | 2                           | 2                       |

| Jurisdiction/<br>Agency                                                  | Bicycle Planner<br>FTE's | Pedestrian Planner<br>FTE's | Trails Planner<br>FTE's |
|--------------------------------------------------------------------------|--------------------------|-----------------------------|-------------------------|
| Frederick County                                                         | 0.5                      |                             |                         |
| Loudoun County                                                           | 0.5                      |                             |                         |
| Maryland Department of Transportation                                    | 1                        | 2                           | 1                       |
| MNCPPC –<br>Montgomery County                                            | 0.33                     | 0.33                        | 1                       |
| MNCPPC – Prince George's County                                          |                          |                             | 1                       |
| Montgomery<br>County                                                     | 1                        | 1                           | 1                       |
| National Capital<br>Region<br>Transportation<br>Planning Board           | 0.5                      | 0.5                         |                         |
| National Park<br>Service                                                 |                          |                             | 1                       |
| Prince William<br>County                                                 |                          |                             | 0.5                     |
| Virginia Department<br>of Transportation,<br>Northern Virginia<br>Office | 1.5                      | 1.5                         |                         |
| WMATA                                                                    | 0.5                      | 0.5                         |                         |

### **Priority Unfunded Regional Bicycle and Pedestrian Projects**

The Bicycle and Pedestrian Subcommittee periodically selects a short list of priority unfunded bicycle and pedestrian projects. These projects are selected from the TCSP reports, the regional

### CHAPTER 1: PLANNING CONTEXT

bicycle plan, and from state and local plans. The subcommittee has compiled and forwarded lists to TPB regularly since 1995, to be included in the solicitation document for the TIP/CLRP. In essence, the TPB urges the jurisdictions to consider funding these projects, which the Bicycle and Pedestrian Subcommittee has judged to be regionally significant, within six years.

The selection criteria for inclusion in this short list were drawn from those used in the TCSP *Greenways and Circulation Systems Reports*. The following criteria were used:

- **Bicycle Network Connectivity:** priority was given to projects that enhanced connectivity of facilities on the regional bicycle facilities network.
- **Pedestrian Safety:** priority was given to projects that promoted pedestrian safety, especially in areas with documented pedestrian safety problems and no pending road project that could address them.
- Access to Transit: priority was given to projects that enhanced access to Metrorail stations and other major transit stops or facilities.
- **Time Frame:** all projects should be able to be completed by 2011, the end of the TIP time frame.
- Local Support: the project is a priority for the jurisdiction or jurisdictions in which it is located.
- Still seeking funding: the project does not yet have full construction funding committed to it.
- **Reasonable Cost:** the total cost of the list should be a reasonable fraction of the total spending in the region on highways and bridges.

While considerable weight is given to the preference of the representative of the jurisdiction, subcommittee members are urged to think in terms of the regional selection criteria when nominating projects.

Projects are dropped from the list when they receive funding, or if the subcommittee and nominating jurisdiction decide that priorities have changed. Most projects on past lists have been funded. Seven projects totaling \$11,508,000 were funded from the 2000 list, and five projects from the 2002 list were fully or partially funded. Projects funded since 1995 include:

- > The Metropolitan Branch Trail in Washington, D.C.
- ➤ Pedestrian and Bicycle Safety Improvements on Route 1 in Fairfax County
- ➤ The Dumfries Road (Route 234) Bike Path in Prince William County
- ➤ The Rosslyn Circle Crossing in Arlington County
- > The Eisenhower Trail in Alexandria
- > The Matthew Henson Trail in Montgomery County
- ➤ The Henson Creek Trail in Prince George's County
- ➤ The Millennium Trail in the Rockville

### **Regional Bicycle Plans**

The Washington region completed its first major bicycle study, the *Washington Regional Bikeways Study* in 1977. This study, created under the supervision of the Regional Bikeways Technical Subcommittee of the Transportation Planning Board Technical Committee, provided an overview of bicycling characteristics and the potential market for bicycle commuting.

In 1988 the Bicycle Technical Subcommittee began work on a bicycle element for incorporation into the region's transportation plan. The plan identified the extent to which bicycle facilities and planning processes already existed in the region, highlighted areas of concern for the future, and drafted a set of policy principles to be applied by the region's jurisdictions in updating their own transportation plans, as well as a list of recommended bicycle projects. The *Bicycle Element* was adopted by the Transportation Planning Board as part of the region's Constrained Long-Range Plan in November 1991.

In 1995, the Transportation Planning Board adopted an update to the 1991 *Bicycle Element*, the Bicycle Plan for the National Capital Region, as an amendment to the Constrained Long-Range Plan. The revised plan emphasized bicycling for transportation and recommended project lists and policy principles produced by the Bicycle Technical Subcommittee.

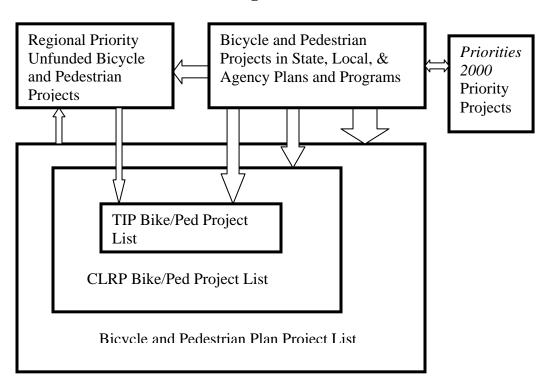
In February 2001, the TPB completed the *Priorities 2000: Greenways* and *Circulation Systems* reports, which identified greenway and pedestrian circulation systems priorities.

Except for the *Priorities 2000* reports, predecessors to this plan were "bicycle" plans. This update to the previous plans fully incorporates pedestrian elements for the first time.

#### **Sources of the Regional Plan Projects**

State, local, and agency bicycle and pedestrian plans are the source of the projects in this plan. All bicycle and pedestrian projects that are programmed in the TIP are also in the CLRP and in this plan. The plan, however, includes many projects that are not in the TIP or the CLRP. The selection criteria from the Transportation Planning Board's *Priorities 2000: Circulations Systems* and *Greenways* reports helped determine the data included for each project in the bicycle and pedestrian plan project list. Figure 1-1 illustrates the relationships between the various project lists.

Figure 1-1



#### Outlook

The TPB has a continuing commitment to inclusion of both bicycle and pedestrian elements in long-range transportation plans. Bicycle and pedestrian plan elements in the regional plans are drawn from jurisdictional plans and policies. The regional Bicycle and Pedestrian Plan in turn will advise the choices made by TPB member agencies for the inclusion of bicycle and pedestrian projects in future Constrained Long Range Plans and Transportation Improvement Programs.

## **Chapter 2**

Bicycling and Walking in the Washington Region

#### Overview

Residents of the Washington region walk and bicycle at about the same rate as the nation as

a whole. Tables 2-1 and 2-2 show the share of walking and bicycling trips to work for the ten largest metropolitan areas.

Nationally, 10% of all urban area trips are made on foot or by bike

Walking and bicycling are declining as modes of transportation both in the Washington region and nationally. Nationally, 0.38% of American workers bicycled to work in 2000, and 2.93% walked. In 1990 0.4% bicycled to work, and 3.9% walked. The number of people driving alone rose from 73.2% in 1990 to 75.7% in

2000, while use of public transportation fell by 0.5%. Driving has been growing, and walking and public transportation declining, for many decades. In 1960, 9.9% of workers walked to work, but only 2.93% did so in 2000.<sup>2</sup>

The walk and bike modes are more common, though, than the census commute mode numbers would lead one to believe. Work trips account for only 20% of all trips; walking and biking are more common for other purposes. Nationally, 9.5% of all urban area trips were made on foot, and 0.9% by bicycle in 2001. In the Mid-Atlantic region, 15.8% of all trips are made on foot, and 0.8% by bicycle.<sup>3</sup>

Regionally, bicycling and walking are

|    | Table 2-1                       | % Walk |
|----|---------------------------------|--------|
|    | Pedestrian Commuting in         | to     |
|    | the Ten Largest                 | Work   |
|    | Metropolitan Areas <sup>1</sup> |        |
| 1  | New York                        | 5.55%  |
| 2  | Boston                          | 4.12%  |
| 3  | Philadelphia                    | 3.88%  |
| 4  | San Francisco                   | 3.25%  |
| 5  | Chicago                         | 3.13%  |
| 6  | Washington                      | 3.10%  |
| 7  | Los Angeles                     | 2.56%  |
| 8  | Detroit                         | 1.83%  |
| 9  | Houston                         | 1.62%  |
| 10 | Dallas-Fort Worth               | 1.48%  |
|    | United States                   | 2.93%  |

|    | Table 2-2:               | %<br>Bike to |
|----|--------------------------|--------------|
|    | Bicycle Commuting in the | Work         |
|    | Ten Largest Metropolitan | VVOIK        |
|    | Areas                    |              |
| 1  | San Francisco            | 1.12%        |
| 2  | Los Angeles              | 0.63%        |
| 3  | Boston                   | 0.38%        |
| 4  | Philadelphia             | 0.33%        |
| 5  | Chicago                  | 0.31%        |
| 6  | Houston                  | 0.30%        |
| 7  | New York                 | 0.30%        |
| 8  | Washington               | 0.30%        |
| 9  | Detroit                  | 0.18%        |
| 10 | DallasFort Worth         | 0.14%        |
|    | United States            | 0.38%        |

concentrated in the core neighborhoods of the Washington region, especially areas near downtown D.C. and certain Metro stations, as well as college campuses and military bases. Figures on walking remain stable in those neighborhoods, while bicycling numbers are growing.

<sup>1 2000</sup> US Census

<sup>2 1960</sup> Census of Population, Characteristics of Population, United States Summary

<sup>3</sup> Pucher, John, "Socioeconomics of Urban Travel: Evidence from the 2001 NHTS". Transportation Quarterly, Vol. 57, No. 3, Summer 2003 (49-77). Page 54.

# CHAPTER 2: BICYCLING AND WALKING IN THE WASHINGTON REGION

Ethnicity, geography, age, and car ownership affect the decision to walk or bicycle to work. People living in the District of Columbia are far more likely to walk or bicycle to work than those living in Maryland or Virginia. People under the age of 35 or over the age of 65 are more likely to walk or bicycle to work. People living in households without cars are more likely to walk or bicycle than those one, and those living in households with only one car are more likely to walk or bicycle than those owning two. Middle-income groups are slightly less likely to walk or bicycle than either low-income or the high-income groups. Hispanics are most likely to walk or bike to work.

Distance is a major barrier to commuter cycling, along with absence of safe routes, and lack of end-of-trip facilities such as showers and lockers.<sup>4</sup> However, most commute trips that are short enough to be bikable or walkable are still taken by car. The average trip distance to transit or carpool is very short.

Transit and walking are interdependent, with 80% of bus and 60% of Metrorail access trips on foot. Mode of access varies tremendously by Metro station. Bicycling to transit is less common and varies greatly by Metro station, with the lowest rates of bicycle access found east of the Anacostia river.

Walking and bicycling are most common in activity centers with a mix of jobs, housing, services, and recreation in a walkable environment.

#### Jurisdictional Trends according to the US Census

The national trend towards less walking and bicycling also holds for the Washington Metropolitan Statistical Area. In 1990, 6,633 people (0.3 %) biked to work on an average day in the Washington area and 85,292 (3.9 %) walked. In 2000, 7,532 people (0.3%) biked to work and 72,700 (3.1%) walked. It should be noted that the census numbers tend to undercount pedestrian trips, since a walk trip to transit is counted as a transit trip, not as a walk trip. Charts 2-1 and 2-2 below show the changes in walking and biking to work by jurisdiction.

<sup>4</sup> Metropolitan Washington Council of Governments, 2004 Bike to Work Day Survey- Summary of Results, June, 2005. Page 6.

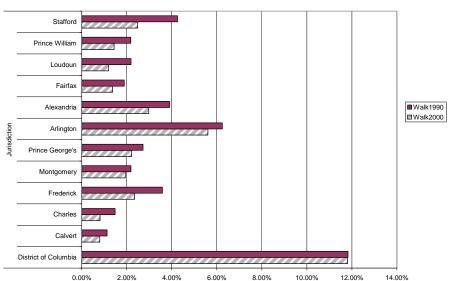
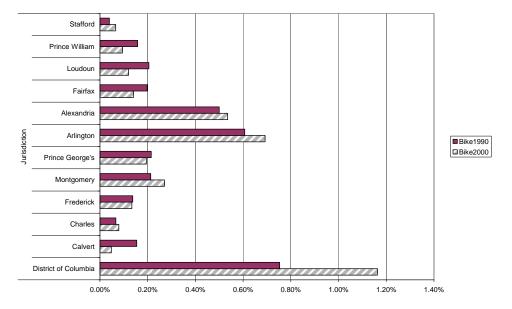


Chart 2-1: Percentage of Workers Walking to Work





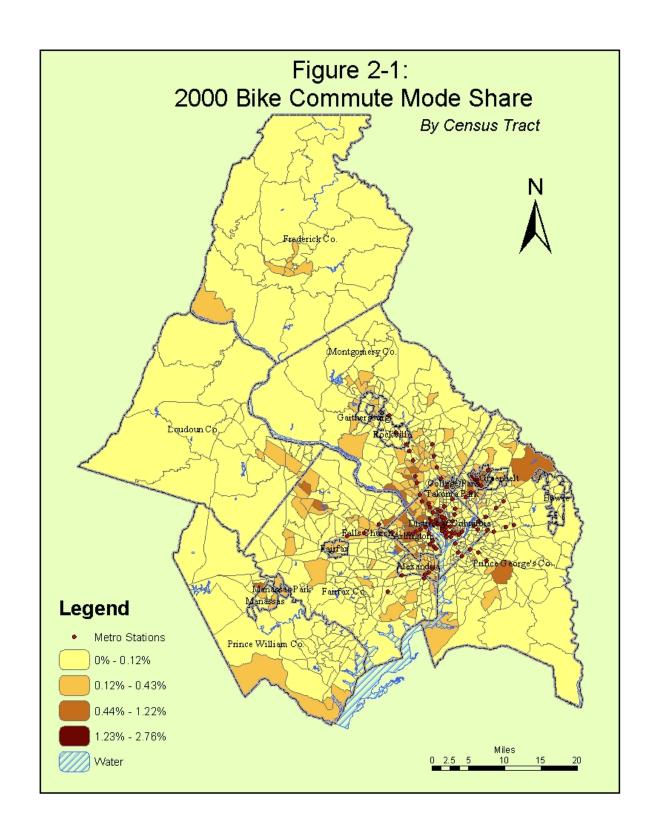
Generally, the urban core of the Washington region, consisting of the District of Columbia, Arlington, and Alexandria, has experienced modest losses in pedestrian mode share and considerable gains in bicycling. The District of Columbia has maintained its pedestrian mode share for the journey to work, while increasing its bicycle mode share considerably. The outer suburban jurisdictions had relatively few people bicycling or walking to work in 1990, and that number fell further during the decade that followed.

### **Bicycle and Pedestrian Plan** for the National Capital Region

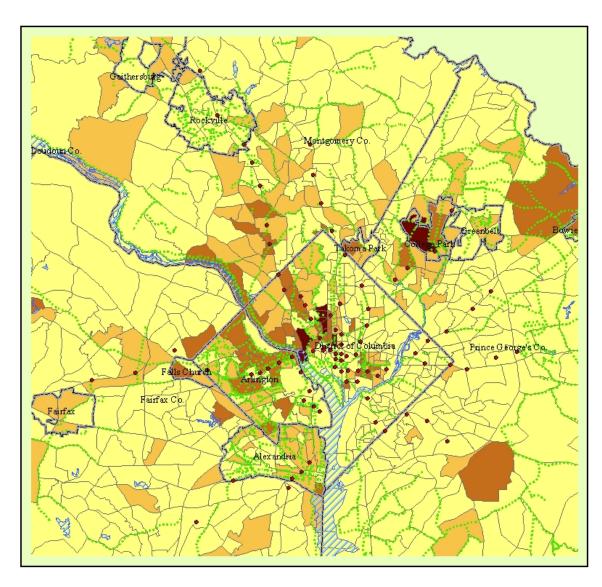
# CHAPTER 2: BICYCLING AND WALKING IN THE WASHINGTON REGION

#### **Mode Share by Census Tract**

Figure 2-1 shows the percentage of home-based work trips by bicycle for each census tract within the TPB member jurisdictions. Figure 2-3 shows the percentage of home-based work trips by foot. Figures 2-2 and 2-4 show bicycle and walk work trips respectively for the area served by Metrorail. The maps show that bicycling and walking are concentrated in the neighborhoods surrounding downtown D.C., Capitol Hill, and North Arlington. The neighborhoods closest to downtown show the highest walk mode shares, while those a little further out have the highest bike mode shares. Census tracts abutting major facilities such as the W&OD, the C&O, and the Mt. Vernon Trails tend to show higher levels of bicycling. College campuses and military bases such as University of Maryland, Ft. Meyers, Bolling Air Force Base, the National Institute of Health, Walter Reed, Howard, Georgetown and Gallaudet all have high walk or bike mode share.



# CHAPTER 2: BICYCLING AND WALKING IN THE WASHINGTON REGION



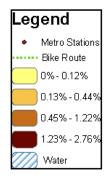
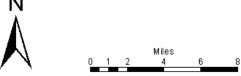
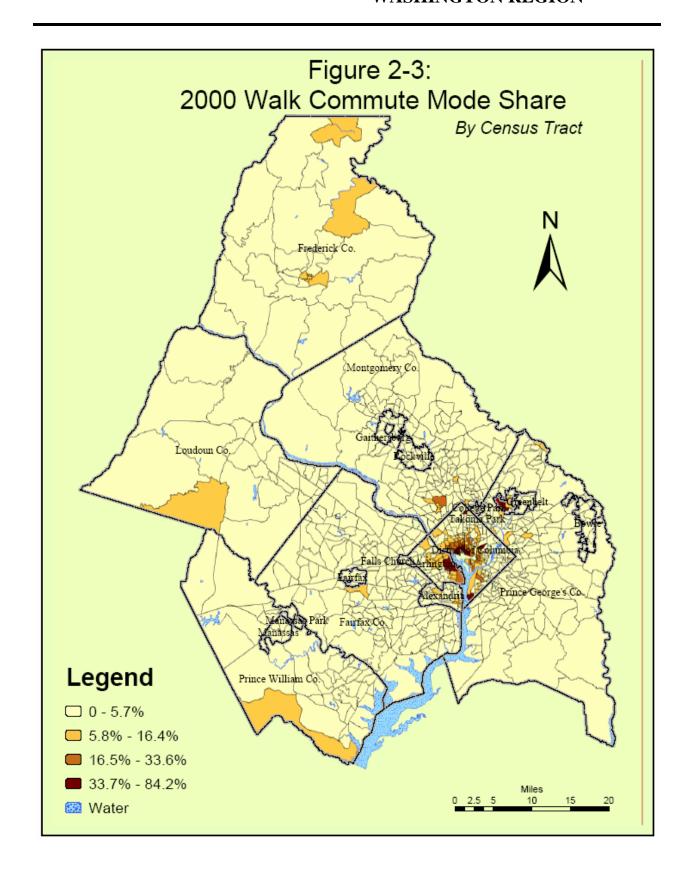
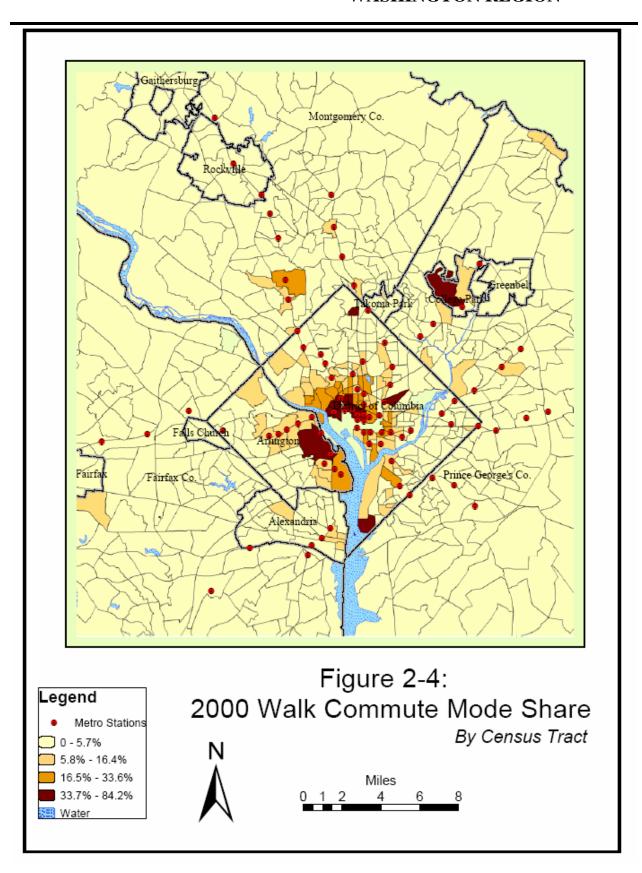


Figure 2-2: 2000 Bike Commute Mode Share By Census Tract N





# CHAPTER 2: BICYCLING AND WALKING IN THE WASHINGTON REGION



#### **Bicycling in the Metro Core**

COG/TPB periodically takes a count of vehicular traffic, including bicycle traffic but excluding pedestrian traffic, entering downtown D.C. and Arlington, as well as traffic crossing the beltway.

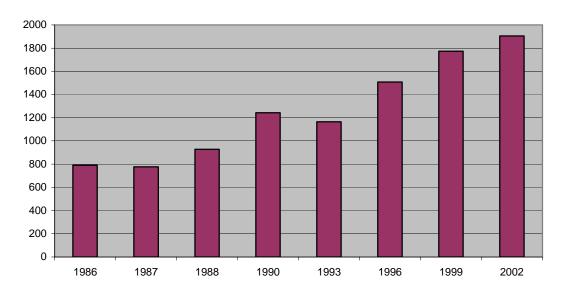
Bicycling is
Growing
Rapidly in
Downtown D.C.
and North
Arlington

Cordon counts are not done in other parts of the region. COG/TPB's cordon counts confirm the census data indicating a concentration of bicycling in the neighborhoods close to downtown D.C. and Arlington.

The counts show that bicycle traffic into the downtown Metro core is growing rapidly, with bicycle traffic into the D.C. section of the Metro core more than doubling from 1986 to 2002. The number of bicyclists entering the Metro core within the District of Columbia has grown steadily from 474 in 1986 to 1,379 in 2002. The number of cyclists crossing the Potomac bridges grew from 317 in 1986 to 525 in 2002. Bicycle traffic into the Arlington section of the Metro core increased from 409 to 645 bicyclists

between 1999 and 2002, while Potomac bridge traffic declined slightly over the same period, indicating that more people are bicycling to destinations, probably employment, within Arlington in the morning. Chart 2-3 shows the number of bicycles entering the D.C. section of the Metro core from 1986 to 2002.

Chart 2-3: Bicycles Entering D.C. Section of the Metro Core



Bicycle traffic is also counted on the beltway cordon, including traffic on shared-use paths, but the a.m. volumes recorded are a fraction of the numbers entering the Metro core. Table 2-4 in Appendix F shows the bicycle volumes recorded crossing the beltway in 1995, 1998, and 2001.

# CHAPTER 2: BICYCLING AND WALKING IN THE WASHINGTON REGION

#### **Demographic Characteristics of Pedestrians and Bicyclists**

Ethnicity, geography, income, age, and car ownership affect the decision to walk or bicycle to work. The best recent source of this demographic information on pedestrian and bicycle commuters in the Washington region is the 2004 Commuter Connections *State of the Commute Survey*. However, the *State of the Commute Survey* and the US Census both measure work trips only, and the conclusions in terms of both the prevalence and distribution of walking and bicycling can be quite different for all trips than for work trips. Nationally, the 2001 *National Household Personal Transportation Survey* is the best source of demographic data on pedestrians and bicyclists for all types of trips.

All data in the following tables comes from the 2004 *State of the Commute Survey* unless otherwise noted. Walking and bicycling were not calculated separately in the *State of the Commute Survey* for the subcategories of ethnicity, income, age, and state of residence due to sample size issues. All mode shares are for primary commute mode, 3+ days per week. Walk/bike mode share varies by household income, state of residence, number of vehicles in the household, ethnicity, and age. Both the 2001 and the 2004 *State of the Commute Surveys* show lower mode share for walking and bicycling than does the 2000 Census, a discrepancy probably explained by differing methodologies.

#### A. Household Income

Chart 2-4 shows walking and bicycling commute mode share by income. Walking and bicycling to work are somewhat more prevalent among the low-income (less than \$30,000 household income per year) than among the very high-income (more than \$140,000 per year). Bicycling and walking are slightly more common at the top and the bottom of the income distribution than in the middle. This is roughly consistent with the national data for all trips.

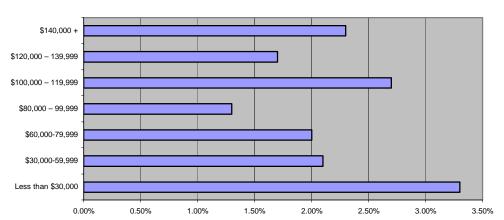


Chart 2-4: Walk/Bike Commute Mode Share by Annual Household Income

#### **B.** Ethnicity

Walk/bike commute mode share differs more by ethnicity than by income. Hispanics have the highest walk/bike mode share at 3.8%, African-Americans the lowest at 1.5%.

White Hspanic Asian African-American 0.00% 0.50% 1.00% 1.50% 2.00% 2.50% 3.00% 3.50% 4.00%

Chart 2-5: Walk/Bike Commute Mode Share by Ethnicity

National data for all trips, however, show African-Americans and Hispanics both walking for about 12% of all trips, though African-Americans bicycle less. Whites walk less than any other ethnic group, but take 0.9% of their trips by bike, the same as Hispanics.<sup>5</sup>

#### C. Age

Chart 2-6 shows walk/bike commute mode share by age. People under 35 and over 65 are more likely to walk or bike to work than the middle-aged. Nationally the elderly have a lower than average mode share for bicycling, so we can presume that most of the elderly are walking rather than bicycling.

-

<sup>5</sup> Ibid, p. 68.

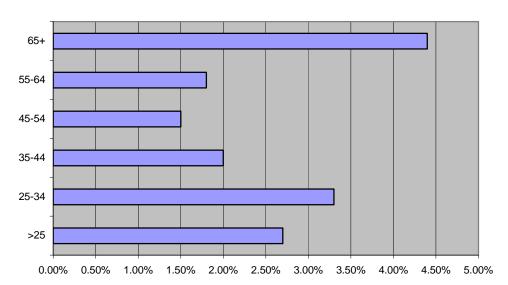


Chart 2-6: Walk/Bike Commute Mode Share by Age

#### D. State of Residence

State of residence strongly predicts the likelihood of walking or bicycling to work, with 8.7% of District of Columbia residents walking or bicycling, versus 1.4% of Maryland residents and 1.5% of Virginia residents. District of Columbia residents are much less likely to own cars than Virginia or Maryland residents, are more likely to be low-income, and tend to live closer to transit or within walking distance of work.

#### E. Motor Vehicles per Household

Vehicles per household is another strong predictor, as shown in Table 2-5. People in households without any vehicles are much more likely to walk or bike to work than households that own one, while those living in households with one vehicle are more likely to walk or bicycle to work than those owning more than one vehicle. Non-work trips also shift radically away from walking in households that have at least one car.

Table 2-5
Walk/Bike Mode Share by Number of Vehicles

| Number of<br>Vehicles in the<br>Household             | 0      | 1     | 2     | 3                   | 4+    |
|-------------------------------------------------------|--------|-------|-------|---------------------|-------|
| Walk/Bike<br>Commute Mode<br>Share                    | 11.40% | 3.70% | 1.20% | 1.40%               | 0.60% |
| Walk Mode Share<br>– All Trips<br>(NPTS) <sup>6</sup> | 41.1%  | 12.5% | 7.8%  | 6.3% (3<br>or more) |       |
| Bike Mode Share<br>– All Trips (NPTS)                 | 2.4%   | 0.7%  | 0.9%  | 0.8% (3<br>or more) |       |

#### **Trip Distances**

Distance was the third most frequently cited reason, by 31% of respondents, to COG/TPB's Bike to Work Day survey to explain why they were *not* riding to work. Reasons One and Two were "Don't like to ride in rain/cold/hot weather" (42%) and "No safe route" (35%). So trip distance is of great interest when gauging the potential for increasing bicycling (or walking). The 2004 SOC survey asked respondents about the length of their commutes. Commute mileage is shown in Table 2-6 below.

**Table 2-6: Commute Distance** 

| Distance   | Less than 5 | 5 to 9 | 10 to 14 miles | 15 to 19 | 20+ miles |
|------------|-------------|--------|----------------|----------|-----------|
|            | miles       | miles  |                | miles    |           |
| Percentage | 17%         | 19%    | 18%            | 13%      | 34%       |

The mean commute distance in the Washington region is 16.2 miles. However, 17% of commutes in the Washington region are less than five miles and therefore potentially bikable on a daily basis. The median commute distance for Washington-area bicyclists is five miles. Table 2-7 shows walk and bike average and median commute distances in miles for pedestrians and bicyclists, from the 2004 *State of the Commute Survey* data.

**Table 2-7: Walk and Bike Commute Distance (in Miles)** 

| COMMUTE<br>MODE | MEAN | MEDIAN | N   |
|-----------------|------|--------|-----|
| Walk            | 1.42 | 1.00   | 144 |
| Bike            | 8.17 | 5.00   | 32  |

6 Ibid, p. 57.

# CHAPTER 2: BICYCLING AND WALKING IN THE WASHINGTON REGION

Another major potential source of walk or bike trips is the trip to transit, park and ride lot, or vanpool and carpool pick-up point. As shown in Table 2-8, access trips to alternative mode meetings points tended to be short. Respondents traveled an average of 3.1 miles. The majority of respondents (59%) traveled one mile or less to the meeting point. Another 26% said they traveled between two and five miles. Only 15% of respondents traveled more than five miles. Based on the distances being traveled, many of the 29% of respondents who are currently driving to their alternative mode meeting point might be able to walk or bicycle instead.

| Distance         | Percentage |
|------------------|------------|
| 1 mile or less   | 59%        |
| 2 miles          | 10%        |
| 3 miles          | 7%         |
| 4 to 5 miles     | 9%         |
| 6 to 10 miles    | 10%        |
| 11 miles or more | 5%         |

Table 2-9
Means of Getting from Home to Alternative Mode Meeting/Transfer Point
(n=1,577)

| Access Mode to Alternative Mode                 | Percentage |
|-------------------------------------------------|------------|
| Walk                                            | 39%        |
| Picked up at home                               | 15%        |
| Drive to a central location (e.g., Park & Ride) | 18%        |
| Drive alone to driver's/passenger's home        | 11%        |
| Bus/transit                                     | 9%         |
| I am the carpool/vanpool driver                 | 5%         |
| Dropped off/another CP/VP                       | 1%         |
| Other*                                          | 1%         |

## CHAPTER 2: BICYCLING AND WALKING IN THE WASHINGTON REGION

#### Non-Work Trips: The COG/TPB Household Travel Survey

In order to calibrate the regional travel demand model, the Council of Governments conducts periodic surveys of travel behavior, including trips for purposes other than work. The most recent surveys that include bicycle and pedestrian data were conducted in 1988, 1994 and in 1999.

These surveys use a much smaller sample of the region's residents than the Census. In 1994, 4,800 households were surveyed about their travel behavior (out of a metropolitan population of roughly 4 million). In 1999, only 2000 were sampled.

The advantage of the *Household Travel Survey* is that we learn about trips of all purposes, not just work trips. The Census and the *State of the Commute Survey* give us information about commute trips only. The disadvantage is that only the 1994 sample size was large enough to provide reliable information about bicycling and walking. Another household travel survey with a sample size comparable to the 1994 survey will be carried out in 2006-2007.

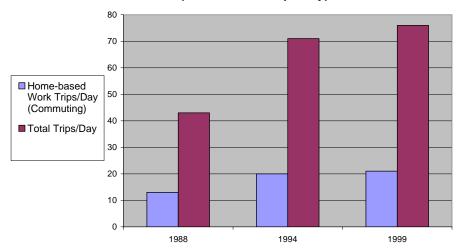
According to Chart 2-7 bicycle trips nearly doubled from 1988 to 1999. However, this increase coincides with an increase in population and employment in the region. In those 11 years the population increased an estimated 17% and the number of jobs increased 14%. Another important factor in the apparent increase is the difference in survey methodology between 1988 and 1994. A greater effort was made to gather bicycle and pedestrian trips in 1994 and 1999.

From 1994 to 1999 bicycle trips as a portion of total trips for all modes remained about the same: 0.5 % for all trip purposes and 0.7% for work trips.

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Chart 2-7: Estimated Bicycle Trips from the COG Household Travel Survey (thousands of trips/day)



The number of pedestrian trips is higher than the number of bicycle trips. In the 1994 *Household Travel Survey*, we found that 7.8% of all trips were on foot, and that walking accounted for 3.1% of work trips. The 1988 *Household Travel Survey* only asked about work trips, and this data does not include walking to transit.

In 1994, three fourths of all trips in the Washington region were for purposes other than work, and those trips were relatively short trips, averaging between four and six miles in length. More than 80% of those non-work trips were auto trips, and another 4% were school bus trips.

#### Walking and Bicycling to Transit

Walking is the dominant mode of access to transit. The census walk to work mode share does not include walk trips to transit, since a walk trip to transit is counted as a transit trip rather than as a walk trip. In areas with high transit ridership the census walk to work numbers significantly undercount the amount of walking to or from work. According to the 2004 State of the Commute Survey, 83% of bus commuters walk to the bus.<sup>8</sup>

<sup>7 1994</sup> COG/TPB Household Travel Survey: Summary of Major Findings. January, 1998. Metropolitan Washington Council of Governments, page 5.

<sup>8 2004</sup> State of the Commute Survey Results. Metropolitan Washington Council of Governments, p. 63.

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In 2002 WMATA surveyed passengers at all 83 of its Metrorail stations. The primary purpose of the survey was to estimate the percentage of total ridership residing in each jurisdiction. Passengers *entering* each Metro station were queried throughout the entire day, so the "mode of access" number for any given Metro station includes both people on their

way to work or some other destination, and those on their way home. "Mode of Access" is the mode people use to get to the station, not to leave it.

61% of
Metrorail
Passengers
Walk to the
Station

Table 2-10 in Appendix G and Table 2-11 in Appendix H show the number of passengers who arrived at each station on a given day by bicycle, on foot, and by all modes put together. On average, 60.74% of all Metrorail passengers walked to the station, while only 0.31% arrived by bicycle. 15% parked and rode. 5% were dropped off by someone, and another 11% arrived at the Metro station by

bus. "Mode of Access" by foot numbers are higher than the number of commuters who report getting to Metro on foot in the 2004 *State of the Commute Survey*, because "mode of access" to any given station includes people who are returning *from* work. Another likely reason for the difference is that the *State of the Commute Survey* includes only those using Metro for commuting, while the *Passenger Rail Survey* includes those using Metrorail for all purposes.

Mode of Access varies greatly by station, from Federal Center, with 94.2% access by foot, to Branch Avenue, with 0.9% access by foot. The top thirty stations for pedestrian access (as a percentage of total passengers accessing that station) are all located in the District of Columbia, Arlington, or Alexandria. Stations with a very high share of pedestrians tend to be located in major employment centers, with people walking from work to the station, rather than from home to the station. However, largely residential-area stations such as Woodley Park, Cleveland Park, Eastern Market, and Columbia Heights are found in the top thirty. Dense, mixed-use areas such as Bethesda, Foggy Bottom, Crystal City, Pentagon City, Friendship Heights, Van Ness, Dupont Circle, Shaw, and the Rosslyn-Ballston Corridor have high percentages of pedestrian access as well.

The bicycle mode of access to transit, according to the 2002 WMATA *Rail Passenger Survey*, was 0.31%, and ranged from 3% at College Park to zero at 23 stations. Stations with more bicycling tended to be located in the western portion of the region, have access to a major shared-use path, be near a major University, and/or be located in an area with a bicycle-friendly street grid. Stations with no bicycling are either in dense urban employment centers with no bicycle parking, or are located in the eastern portion of the region. Of the

 $<sup>9\,2002\,</sup>WMATA\,Rail\,Passenger\,Survey,\,WB\&A\,Market\,Research,\,from\,the\,table$  "Origin Station by Mode of Access".

### Bicycle and Pedestrian Plan for the National Capital Region

# CHAPTER 2: BICYCLING AND WALKING IN THE WASHINGTON REGION

fourteen stations located east of the Anacostia River in 2002, ten had no bicycle use at all. All stations in Fairfax and Montgomery Counties had some bicycle use. The WMATA *Rail Passenger Survey* confirms what the census tells us about the distribution of walking and bicycling in the region, with walking and bicycling heavily concentrated in the Metro core and at certain inner suburban stations.

#### Outlook

Walking and bicycling taken together are significant travel modes in the Washington region, especially for non-work trips, and for trips to transit. Walking is the larger mode, but it is shrinking, while cycling is less common and is stable at the regional level.

Commutes are getting longer across the region, and the fastest population growth is taking place in outer jurisdictions that have low and declining levels of walking and bicycling. Those areas have developed in ways that make utilitarian walking and bicycling difficult

Growth in
Walking and
Bicycling will
likely occur in the
Urban Core and
Regional Activity
Centers

and dangerous, with long distances, lack of direct routes, heavy, fast automobile traffic, and incomplete facilities for walking or bicycling.

The story in the urban core, however, is different. In the District of Columbia, Arlington, Alexandria, and portions of Montgomery County, walking is holding its own, while bicycling is expanding rapidly. Where one finds mixed-use activity centers, one finds a lot of people walking and bicycling. Where land uses are separated and development densities are lower, walking and bicycling are less common.

It is likely that the urban core and inner suburban communities will develop over the next thirty years ways that will be conducive to walking and bicycling. Many inner suburban activity centers have already reached critical levels of traffic congestion. Land values in the inner jurisdictions have been rising rapidly, and regional projections call for rapid employment growth in these same areas. 80% of the region's employment is currently found within a series of "regional activity centers", or concentrations of employment and housing identified by the TPB. Seventy percent of regional employment growth to 2030 is planned to take place within or directly adjacent to those centers, as well as thirty-six percent of household

### **Bicycle and Pedestrian Plan for the National Capital Region**

# CHAPTER 2: BICYCLING AND WALKING IN THE WASHINGTON REGION

growth.<sup>10</sup> Under current zoning, far more workers are projected to arrive in the region than there will be homes built for them, and transport links will not be adequate for them to commute from outside the region.<sup>11</sup> The COG Board of Directors has concluded that some land will need to be replanned and re-zoned to accommodate sufficient housing to meet employment projections. If redevelopment occurs in ways that are consistent with the *TPB Vision*, creating activity centers that mix jobs, housing and services in a walkable environment, conditions will be favorable for growth in walking and bicycling.

<sup>10</sup> www.mwcog.org/planning

<sup>11</sup> Metropolitan Washington Council of Governments, *Growth Trends to 2030: Cooperative Forecasting in the Washington Region*, October, 2005. Pp. 2, 14-15.

### Bicycle and Pedestrian Plan for the National Capital Region

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#### **Data Sources**

Major sources of data for bicycling and walking in the Washington region include the US Census, the Commuter Connections *State of the Commute Survey*, the 1994 COG/TPB *Household Travel Survey*, COG/TPB's cordon counts, pedestrian and bicycle crash data from the Departments of Transportation, WMATA's 2002 *Rail Passenger Survey*, and the 2004 *Bike to Work Day Survey*.

#### A. 2000 US Census

The most fine-grained data on travel behavior comes from the Census. Every 10 years the Census Bureau asks roughly one in seven individuals (those who fill out the 'long form') how they get to work. People are polled at their home, not at their place of work. The most recent data available is from the 2000 Census. The biggest limitation of the Census data is that it only contains commute trips. Only one quarter of all trips in the Washington region are commute trips. However, commute trips occur at the most congested time of day.

#### B. 2002 COG/TPB Cordon Counts

COG/TPB's cordon counts are conducted by machine or in person, on specific roads or trails. In cordon counts, COG/TPB counts the volume of traffic crossing a series of points along an imaginary circle. For example, one cordon line is the Capital Beltway. At approximately 60 points along the Beltway, COG/TPB counts all vehicles crossing over or under the Beltway. Another cordon line is known as the Metro Core, circling downtown DC and part of Arlington. Counts take place on a single day, so results may vary widely depending on weather, transportation incidents, security emergencies, or other factors. Pedestrians are not counted. Bicyclists crossing the cordon line may or may not be commuters; they are counted but not stopped or asked their trip purpose. In most cases the numbers represent only one day of counting and can not be viewed as a daily average.

#### C. 2004 Commuter Connections State of the Commuter Survey

The *State of the Commute Survey* is a random sample survey of 7,200 employed persons in the 12 counties and four independent cities of the Washington Metropolitan designated non-attainment region. Commuter Connections commissions this survey in order to evaluate the effectiveness of its programs. The region polled is the Washington Metropolitan Statistical Area, shown in figure

<sup>12</sup> National Capital Region Transportation Planning Board, 1994 COG/TPB Household Travel Survey: Summary of Major Findings. January, 1998. Page 4.

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i-1 on page i-4. The sample size of the *State of the Commute Survey* permitted the calculation of walk/bike mode shares by annual income, ethnicity, age, and state of residence.

The SOC survey does not provide any information on non-work trips. Surveys were carried out from February 7<sup>th</sup> to May 2<sup>nd</sup>, 2004, by telephone, and asked about behavior "last week". This methodology differs somewhat from U.S. Census, which asks about behavior during the first week in April. The 2001 and 2004 SOC surveys show lower numbers for walking and bicycling than does the census.

#### D. 1994 COG/TPB Household Travel Survey

In 1994 consultants for the Council of Governments conducted a survey of more than 11,000 persons in 4,800 households throughout the metropolitan Washington region, about trips made on a randomly assigned weekday for their household. The survey was conducted in two waves, the first in May and June of 1994, the second in October and November of 1994. In each wave of the survey, randomly selected Washington area households were contacted by telephone and asked to participate in a one-day travel survey. Those households agreeing to participate were sent a travel survey packet containing information on the survey and a travel diary for each member of the household age 5 and older. Instructions in the survey packet asked all eligible household members, age 5 or more, to record in the enclosed travel diaries all trips made on a specific weekday that had been randomly selected for their household. Reminder cards were sent and phone calls made. Then beginning on the day after the travel day consultant staff began calling each participant household to obtain a telephone report of all trips made by each household member on the household's travel survey day. The net response rate was 40%.

The data collected in the COG/TPB Household Travel Survey is used to develop an understanding of the basic factors that determine the amount and nature of daily travel in the Metropolitan region. They are also used to predict changes in daily travel patterns in response to current development trends and changes in regional transportation policies and programs.

#### E. 2002 WMATA Rail Passenger Survey

WMATA carried out a survey of rail passengers in 2002. Surveys were carried out between April 8 and May 22, 2002. Data were collected for the full day, divided into a.m. and p.m. peak and off-peak periods. Subjects were interviewed in Metro rail stations. The primary purpose of the survey was to allow WMATA to estimate the percentage of total ridership residing in jurisdiction. However, the survey also asked riders what mode of transportation

### Bicycle and Pedestrian Plan for the National Capital Region

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they used to access or egress the station. 57,700 responses were gathered.

#### F. 2004 Bike to Work Day Survey

The *Bike to Work Day Survey* is a survey of participants in the regional Bike to Work Day of May 7, 2004. It is not a random sample, but it provides a portrait of a self-selected group of cyclists. In November 2004, COG/TPB mailed surveys to all 4,200 registered participants, and got back 1,240 completed surveys, a response rate of 30%.

Participants in Bike to Work Day often rode considerable distances for the event, with 18% riding 10-15 miles, and another 12% riding more than 15 miles. However, the post-ride survey indicates that people may be willing to ride farther for a one-day event than they will on a daily basis. Several months after the event participants were asked if they still biked to work, and if not why not. Of the 354 respondents who did not continue riding to work after participating in Bike to Work Day, 42% cited weather, while another 35% cited lack of a safe route, 31% cited distance, 18% cited lack of showers or changing facilities, 10% cited lack of bike parking/storage, and 8% cited the need for a car to take care of personal business.

### **Chapter 3**

Pedestrian and Bicycle Safety

#### Overview

Pedestrian and bicycle fatalities and injuries are a serious problem in the Washington region. Nearly a quarter of all traffic fatalities in the region are pedestrian or cyclist. Every jurisdiction has a significant pedestrian safety problem. Pedestrian and bicyclist fatalities account for at least 10% of total traffic fatalities in every major jurisdiction.

While areas and demographic groups are affected, some groups are more affected than others. Urban areas and inner suburban areas are more heavily affected than the outer suburbs, Hispanics and African-Americans more than Whites and Asians.

This section will describe the scope of the pedestrian and bicycle safety problem, its distribution across the region by jurisdiction and ethnicity, and the legal rights and responsibilities of drivers, pedestrians, and bicyclists. It will also discuss the region's efforts to deal with the problem through the "Street Smart" pedestrian and bicycle safety campaign.

#### The Scope of the Problem

Pedestrian safety is a major problem nationally and in the metropolitan Washington region. Of 42,643 traffic fatalities in the United States in 2003, 4,749, or about 11%, were pedestrians. Urban areas have higher pedestrian fatality rates than rural areas. The Washington-Baltimore region ranks 22nd out of the 50 largest metropolitan areas in terms of pedestrian deaths per capita.

Pedestrians and bicyclists account for nearly a quarter of those killed on the roads in the Washington region. Over 2,600 pedestrians and bicyclists are injured every year, and 89 are killed. On average, there are 370 traffic fatalities per year in the Washington region.<sup>2</sup> Chart 3-1 shows average annual pedestrian and bicycle fatalities in the Washington Region, as a proportion of total traffic fatalities.

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<sup>&</sup>lt;sup>1</sup> www.nhtsa.dot.gov

<sup>&</sup>lt;sup>2</sup> Regional totals compiled from data provided by the District Department of Transportation, the Maryland Office of Highway Safety, and the Virginia Department of Motor Vehicles.

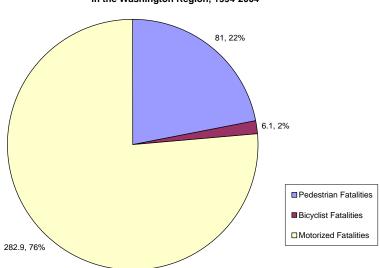


Chart 3-1: Average Annual Pedestrian and Bicyclist Fatalities in the Washington Region, 1994-2004

Chart 3-2 shows the yearly variations in traffic fatalities from 1994-2004. Overall traffic fatalities were stable, and pedestrian and bicycle fatalities showed a slight downward trend. However, population and vehicle-miles traveled rose significantly during the period, while the mode share of walking fell.

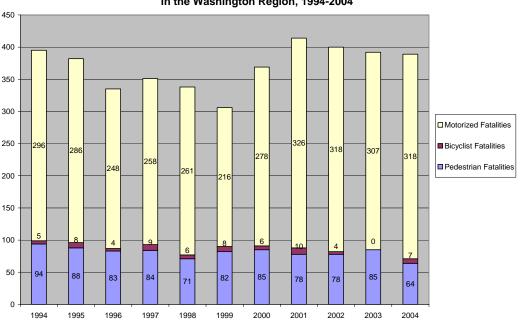


Chart 3-2: Pedestrian, Bicyclist, and Motorized Traffic Fatalities in the Washington Region, 1994-2004

Pedestrian injuries exact a steep toll as well. Of the approximately 3,000 persons hit by motor vehicles every year in the region, 90% suffer some sort of injury. Approximately 500 injured pedestrians every year require more than 24 hours of hospitalization, which at an average cost of about \$25,000 leads to more that \$12 million in hospitalization charges alone.<sup>3</sup> This is probably only a fraction of the total financial costs, which would include costs for those hospitalized for less than 24 hours, further medical care, disability, and lost time at work. Many of the people being hit can ill afford such a setback.

#### Distribution of Pedestrian and Bicycle Fatalities by Jurisdiction

The region is often divided into an urban core, consisting of Arlington, Alexandria and the District of Columbia, the inner suburbs of Fairfax, Montgomery, and Prince George's Counties, and the outer suburbs, such as Frederick, Loudoun, and Prince William Counties. Manassas, Manassas Park, the City of Falls Church, and the City of Fairfax are shown as "Other Northern Virginia". Outer suburban jurisdictions had fewer pedestrian fatalities than inner jurisdictions, as seen in Chart 3-3.

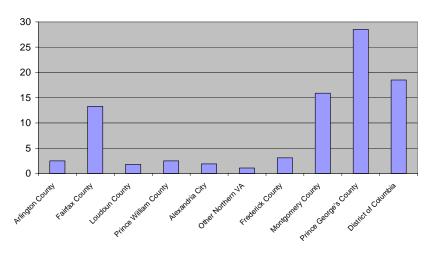


Chart 3-3:
Average Annual Pedestrian and Bicyclist Fatalities, 1994-2003

Even when calculated as a rate per 100,000 population, outer suburban jurisdictions had lower fatality rates than inner jurisdictions, a difference that probably reflects the lower pedestrian and bicycle mode share of the outer jurisdictions, as well as a daytime

<sup>3</sup> Northern Virginia Injury Prevention Prevention Center, INOVA Regional Trauma Center (2005). *Pedestrian Injury in the Washington, D.C. Metropolitan Region.* Page 37.

<sup>4</sup> Towns in Northern Virginia are not included in the surrounding Counties; their traffic fatalities are tallied separately.

Hispanics are

three times as

a Pedestrian

Injury

likely as Whites to

be hospitalized for

population in the District of Columbia nearly twice as high as its resident population. Pedestrian and bicycle fatality rates in each jurisdiction are shown in Chart 3-4.

However, even the outer suburban jurisdictions have a serious pedestrian safety problem. In no major jurisdiction did pedestrian and bicyclist fatalities account for less than 10% of total traffic fatalities.

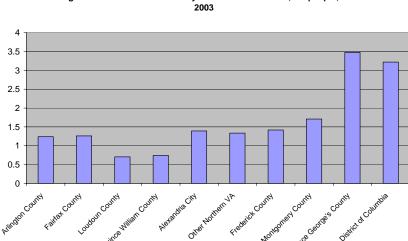


Chart 3-4: Average Annual Pedestrian and Bicyclist Fatalities Per 100,000 people, 1994-

Walking and bicycling appear to be safer in the urban core than in the inner or outer suburbs. The rate of pedestrian fatalities does not directly correspond to the number of people walking. Urban core residents are four to six times as likely to walk to work as outer jurisdiction residents, but are only twice as likely to be killed in a pedestrian or bicycle crash. And as previously noted, the urban core's fatality

numbers probably include many non-resident workers and tourists. The urban core has good pedestrian facilities and low traffic speeds, and drivers expect to see pedestrians and bicyclists.

There are large differences in the rates of hospitalization for pedestrian injury by ethnicity. The rate of hospitalization per100,000 population for pedestrian injuries for Hispanics is

nearly three times as high as that for Whites, and twice that for African-Americans.<sup>5</sup>

**Pedestrians** Find Safety in Numbers

Geographically, the highest rates of hospitalization are found in the area east of the Anacostia river in the District of Columbia, most of Prince George's County inside the beltway, the Columbia Pike corridor in

<sup>&</sup>lt;sup>5</sup> Northern Virginia Injury Prevention Prevention Center, INOVA Regional Trauma Center (2005). *Pedestrian* Injury in the Washington, D.C. Metropolitan Region. Page 35.

Arlington, the area between Fairfax City and Falls Church in Fairfax County, and Dumfries in Prince William County. 6

The pedestrian crash rate tends to fall as the number of pedestrians at a location increases. Doubling the number of pedestrians at an intersection already crowded with pedestrians will usually result in little, if any, increase in pedestrian crashes. Similar effects have been noted for cyclists, with cities having the highest rates of bicycling also having the lowest crash rate per bicycle trip. Areas are safer with more people walking and bicycling, especially if facilities are improved and other measures are taken to improve pedestrian and bicycle safety. High levels of walking and bicycling are associated, in advanced industrialized nations, with very low auto-involved crash rates. Holland has half the overall traffic fatality rate of the United States, despite a very high walk and bike mode share.

Experience of other nations shows that it is possible to reduce pedestrian and bicycle fatalities while increasing walking and bicycling. On the other hand, it is not possible to eliminate pedestrian fatalities by eliminating pedestrian facilities and discouraging walking; even in our least pedestrian-oriented jurisdictions, pedestrian fatalities account for at least 10% of total traffic fatalities. For the foreseeable future there will be people without cars, and there will always be some trips that will be made on foot. The region's most dangerous areas for walking have high-speed roads and poor pedestrian facilities, together with people who lack automobiles.

#### **Factors contributing to Pedestrian and Bicycle Crashes**

Data from the Washington region indicate that drivers are about as likely as pedestrians to be at fault in a crash. Drivers were cited for a violation in about half the crashes. Males aged 25 to 34 are most likely to hit pedestrians, while pedestrians who are hit are most likely to be males aged 25 to 44. Pedestrian crashes are most likely to occur at the evening rush hour, 5-7 p.m., with 6-9 a.m. the second most likely. Alcohol is a serious problem for both pedestrians and motorists, affecting approximately one third of crashes.

<sup>7</sup> Raford, Noah. *Space Syntax: An Innovative Pedestrian Volume Modeling Tool for Pedestrian Safety*. Presented at the 2004 TRB Conference, January, 2004. (TRB2004-000977) p. 8.

<sup>&</sup>lt;sup>6</sup> Ibid, pp. 40-42.

<sup>&</sup>lt;sup>8</sup> Denmark Ministry of Transport (1994) Safety of Cyclists in Urban Areas: Danish Experiences.

<sup>&</sup>lt;sup>9</sup> Pucher, John. "Making Walking and Bicycling Safer: Lessons from Europe," *Transportation Quarterly*, Summer 2000

<sup>&</sup>lt;sup>10</sup> INOVA study, page 23.

<sup>&</sup>lt;sup>11</sup> Ibid, page 12.

### **Legal Status of Bicyclists and Pedestrians**

State traffic codes allow bicyclists to travel on most roadways with the general rights and responsibilities of drivers of vehicles. Bicyclists must ride in the same direction as traffic, use lights after dark, and yield to pedestrians. Like operators of other slow-moving vehicles, cyclists--when traveling at less than the normal speed of other traffic--should generally ride as far to the right as safely practicable, except when preparing to turn left, passing, avoiding obstructions, mandatory turn lanes or unsafe pavement conditions, or when the travel lane is not wide enough to safely split with a motor vehicle. Cyclists may use the full travel lane if the lane is too narrow to allow them to ride to the right of motor vehicles safely. Cyclists may usually ride on roadway shoulders, paths and sidewalks, except where prohibited. Cyclists have the rights and duties of pedestrians when traveling on paths, sidewalks, and crosswalks, however, they must yield to pedestrians in those locations. Rules relating to bicycles are summarized on page E-4 of the Metropolitan Washington Council of Governments' *Bike to Work Guide*, and in Table 3-1 below.<sup>12</sup>

Table 3-1: Selected Bicycle Rules in the Washington Area

|                             | MARYLAND                                                                                                                                                                                                                                                                                             | DISTRICT OF                                                                                                                                                                                                                                                                                                                              | VIRGINIA                                                                                                                                                                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             |                                                                                                                                                                                                                                                                                                      | COLUMBIA                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                           |
| Bicycle<br>Position         | When slower than other traffic, bicycle as close to the right as safely practicable, except when turning left, passing, avoiding pedestrians or road hazards, when the right turn lane is right turn only, or on a one way street. Does not apply in lanes too narrow to share with a motor vehicle. | Bicycle in the right most lane available for traffic, or as close as practicable to the right-hand curb or edge of the roadway, except when turning left or passing, avoiding pedestrians or road hazards, or on a one-way street. Does not apply in lanes 11 feet wide or less, or when necessary to comply with lane use restrictions. | When slower than other traffic, bike as close to the right as safely practicable, except when turning left, passing, avoiding hazards or traffic in mandatory turn lane, or traveling on a oneway street. Does not apply in lanes too narrow to share with motor vehicle. |
| Passing cars                | Pass on left; not required to pass on left on one-way street or when passing vehicle turning left.                                                                                                                                                                                                   | Pass on the left; may pass on right when automobile is trying left or when street is of sufficient width for two lines of moving vehicles.                                                                                                                                                                                               | Permitted to pass on right or left, pass in same lane or change lanes, or pass off road.                                                                                                                                                                                  |
| Turning<br>left             | From two-way to two-way streets; enter and leave intersection near center line of roadway. One-way to one-way; keep as close as practicable to left curb.                                                                                                                                            | Same as MD.                                                                                                                                                                                                                                                                                                                              | Three ways permitted: like a motorist, pedestrian, and crosswalk.                                                                                                                                                                                                         |
| Bicycling<br>Two<br>Abreast | Permitted when it does not<br>endanger bicyclists or impede<br>traffic                                                                                                                                                                                                                               | Same as MD.                                                                                                                                                                                                                                                                                                                              | Permitted when it does not impede traffic.                                                                                                                                                                                                                                |

<sup>&</sup>lt;sup>12</sup> See www.commuterconnections.org

|                                                | MARYLAND                                                                                                                                                                 | DISTRICT OF<br>COLUMBIA                                                                                                                                                                                       | VIRGINIA                                                                                                                                          |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Turning right                                  | Stay as close as practicable to right-hand curb.                                                                                                                         | Same as MD.                                                                                                                                                                                                   | Same as MD.                                                                                                                                       |
| Restricted<br>Roads                            | Prohibited from expressways, toll bridges, toll tunnels, and other marked roads.                                                                                         | No restricted roads. Bicyclists also allowed in bus lanes.                                                                                                                                                    | Prohibited from interstate and controlled access highways, as marked.                                                                             |
| Cycling<br>on<br>Sidewalks                     | Banned except where allowed<br>by local jurisdictions (allowed<br>in Montgomery County)                                                                                  | Allowed except in the central business district, which is bounded by 23rd St NW, Massachusetts Ave, 2nd St NE-SE, D St SE to 14th St NW and Constitution Ave to 23rd St NW. Allowed where posted in this area | Allowed except where prohibited by local jurisdictions, such as Prince William County and Alexandria.                                             |
| Mandatory<br>Use of<br>Bike Paths<br>and Lanes | Use of bike lanes required when available. No required use of separated paths. Must use shoulder when speed limit is over 50 mph and when shoulder is as smooth as road. | Not required                                                                                                                                                                                                  | None. Localities can no longer require use of bike paths adjacent to a road as of 7/1/04.                                                         |
| Helmets                                        | Required for cyclists aged 15 and under                                                                                                                                  | Not required                                                                                                                                                                                                  | Required for cyclists age 14 and under in Arlington County, Fairfax County and City of Alexandria.                                                |
| Lights                                         | Front light required when dark.                                                                                                                                          | Front light required when dark.                                                                                                                                                                               | White front light required when dark. Red rear light (in addition to red rear reflector) required when dark on roads posted for 35 MPH or higher. |

Pedestrians are not vehicle operators and are not subject to the same rules. Persons on rollerblades, skateboards, etc. operating on the street are considered pedestrians, but bicyclists are not. Motorists must yield to pedestrians when making turns across adjacent crosswalks. "Jaywalking" is legal in most locations, but pedestrians must yield to motorists if they are crossing at a location other than a crosswalk. Pedestrians may not cross at mid-block if they are between two signal-controlled intersections; they must use the crosswalk. Tables 3-2 and 3-3 summarize the rules in each state regarding pedestrians.

Table 3-2: Pedestrian Traffic Law—Motor Vehicles Drivers

|                                                    | MARYLAND                                                                                                                                                                                                                                      | DISTRICT OF                                                                                                                                                                                      | VIRGINIA <sup>13</sup>                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    |                                                                                                                                                                                                                                               | COLUMBIA                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                    |
| Crosswalk<br>Definition                            | Any intersection of two roadways is a legal crosswalk, whether marked or not. Pedestrians have the same rights in marked crosswalks as in unmarked crosswalks                                                                                 | Same as Maryland                                                                                                                                                                                 | Same as Maryland                                                                                                                                                                                                                                                                                                                   |
| Blocking a<br>Crosswalk                            | A motorist may not park or stop in a crosswalk                                                                                                                                                                                                | Same as Maryland                                                                                                                                                                                 | Same as Maryland                                                                                                                                                                                                                                                                                                                   |
| Sidewalk                                           | Pedestrians have the right of way in the sidewalk                                                                                                                                                                                             | Pedestrians have the right<br>of way in the sidewalk.<br>Parking on the sidewalk<br>prohibited.                                                                                                  | Pedestrians have the right of way in the sidewalk.                                                                                                                                                                                                                                                                                 |
| Right Turn on<br>Red                               | Vehicles turning right on red must yield to pedestrians in the crosswalk                                                                                                                                                                      | Same as Maryland                                                                                                                                                                                 | Same as Maryland                                                                                                                                                                                                                                                                                                                   |
| Turn on Green                                      | Vehicles turning either right or<br>left on a green light must yield to<br>pedestrians in the adjacent<br>crosswalk                                                                                                                           | Same as Maryland                                                                                                                                                                                 | Same as Maryland                                                                                                                                                                                                                                                                                                                   |
| Red Light                                          | Motorist should stop before the crosswalk, or if no crosswalk is striped, before the intersection                                                                                                                                             | A pedestrian who has begun crossing on the walk signal shall be given the right-of-way by the driver of any vehicle to continue to the opposite sidewalk or safety island, whichever is nearest. | Same as Maryland                                                                                                                                                                                                                                                                                                                   |
| Stop-Controlled<br>or Uncontrolled<br>Intersection | Motorist must stop for any pedestrian in the same half of the roadway as the motorist, or who is approaching from the adjacent lane in the other half of the roadway. No motorist may pass another vehicle which has stopped for a pedestrian | The driver of a vehicle shall <b>STOP</b> and give right of way to a pedestrian crossing the roadway within any marked crosswalk or unmarked crosswalk at an intersection.                       | The drivers of vehicles entering, crossing, or turning at intersections shall change their course, slow down, or <i>stop if necessary</i> to permit pedestrians to cross such intersections safely. Pedestrians have the right of way unless the speed limit is more than 35 mph, in which case the motorist has the right of way. |

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<sup>&</sup>lt;sup>13</sup> http://virginiadot.org/infoservice/bk-laws.asp, www.bikewalkvirginia.org

Table 3-3: Pedestrian Traffic Law—Pedestrians

|                                              | MARYLAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DISTRICT OF<br>COLUMBIA                                                                                                                                                                                                                                                                                                                                           | VIRGINIA                                                                                                                                                                                                                           |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Green light                                  | A pedestrian facing a green light (other than a turn arrow) may cross the roadway, within a marked or an unmarked crosswalk                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Same as Maryland                                                                                                                                                                                                                                                                                                                                                  | Same as Maryland                                                                                                                                                                                                                   |
| Red light                                    | Pedestrians shall not enter the roadway on a steady red light                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Same as Maryland                                                                                                                                                                                                                                                                                                                                                  | Same as Maryland                                                                                                                                                                                                                   |
| Pedestrian Control Signal                    | Pedestrians shall not enter the roadway when there is a flashing "Don't Walk" or "Wait" indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Same as Maryland                                                                                                                                                                                                                                                                                                                                                  | Same as Maryland                                                                                                                                                                                                                   |
| Stop-controlled or uncontrolled intersection | Pedestrians may cross the roadway within a marked or unmarked crosswalk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Same as Maryland                                                                                                                                                                                                                                                                                                                                                  | Same as Maryland, except<br>the pedestrian must yield<br>to motor vehicle traffic if<br>the speed limit is 35 mph<br>or more. Pedestrians may<br>not disregard approaching<br>traffic when entering or<br>crossing an intersection |
| Crossing at Other Than Crosswalks            | (a) If a pedestrian crosses a roadway at any point other than in a marked crosswalk or in an unmarked crosswalk at an inter section, the pedestrian shall yield the right-of-way to any vehicle.  (b) If a pedestrian crosses a roadway at a point where a pedestrian tunnel or overhead pedestrian crossing is provided, the pedestrian shall yield right of way to any vehicle.  (c) Between adjacent intersections at which a traffic control signal is in operation, a pedestrian may cross a roadway only in a marked crosswalk.  (d) A pedestrian may not cross a roadway intersection diagonally. | Essentially the same as Maryland, but with a specific prohibition on walking suddenly into the path of a vehicle:  (a) No pedestrian shall suddenly leave a curb, safety platform, safety zone, loading platform or other designated place of safety and walk or turn into the path of a vehicle which is so close that it is impossible for the driver to yield. | Same as Maryland, except that pedestrians may not enter the roadway at any point where drivers view of them is blocked by a parked vehicle or other obstruction.                                                                   |
| Pedestrians on Roadways                      | <ul><li>(a) A pedestrian may not walk on a roadway where sidewalks are provided.</li><li>(b) Where no sidewalk</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Same as Maryland                                                                                                                                                                                                                                                                                                                                                  | Same as Maryland                                                                                                                                                                                                                   |

|  | is provided, a pedestrian may<br>walk only on the left side of<br>the roadway, facing traffic. |  |  |
|--|------------------------------------------------------------------------------------------------|--|--|
|--|------------------------------------------------------------------------------------------------|--|--|

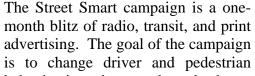
#### Pedestrian and Bicyclist Enforcement and Education: The "Street Smart" Campaign

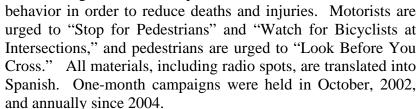
Pedestrian and bicycle safety efforts generally fall into three broad categories of actions, the three E's: Engineering, Education, and Enforcement. Engineering deals with the design of safer roads, streets, and pedestrian and bicycle facilities. Education includes both classroom-based training and behavioral modification campaigns. Enforcement consists of enforcement of the traffic laws with respect to pedestrians and bicyclists. The

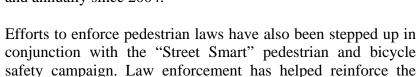
regional pedestrian and bicycle safety campaign, Street Smart, deals primarily with education through mass media.

Street Smart was created in 2002 by the region's governments in response to an ongoing regional pedestrian and bicycle safety problem. Since the region is a single media market, a unified regional campaign is the most cost-effective approach. The program is supported by federal funds made available through state governments, with local funds matching the federal funds, and is administered by the National Capital Region

Transportation Planning Board.







campaign message, just as it has been used effectively as part of anti-drunk driving and seatbelt advertising campaigns. Public awareness of these heightened enforcement activities has been a key aspect of this campaign. Research shows that fear of fines and legal consequences is more effective at changing behavior than fear of death or injury. Also the TV and press media often covers enforcement stings, increasing the public's perception that they are likely to be ticketed for breaking the law.

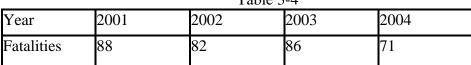


Before You Cros

#### **Evaluation Results**

Evaluation results show that the prime target audience, male drivers aged 18 to 34, is hearing the message. For example, surveys taken before and after the campaign of April, 2004 show that awareness of the Street Smart messages rose by 22 percentage points among male drivers aged 18 to 34. There is some evidence that drivers are more likely to yield to pedestrians, and that pedestrians are becoming more careful. Specifically, in May 2005:

- 17% of respondents reported that they "had to swerve to avoid a pedestrian in the last 7 days", down from 32% in 2002
- 60% reported frequently observing motorists failing to yield to pedestrians, down from 76% in 2002
- Pedestrian and bicyclist fatalities in the Washington region fell from 2001-2004. The average fatality rate for 1994-2004 was 87. Table 3-4 shows the pedestrian and bicyclist fatalities for the region from 2001-2004.



### Table 3-4<sup>14</sup>

#### Outlook

Pedestrian and bicycle safety has drawn increasing attention in the Washington region and at all levels of government. The Street Smart campaign is yielding positive results. Better vehicle-pedestrian crash-compatibility, safer street design, retro-reflective clothing, and safer pedestrian and driver behavior will help reduce pedestrian and bicycle fatalities and injuries.

On the other hand, as the region's population and density increase, including growing numbers of immigrants and others for whom walking and bicycling are a primary mode of transportation, preventing pedestrian and bicyclist fatalities and injuries will remain a major challenge.

<sup>&</sup>lt;sup>14</sup> District of Columbia Department of Transportation, Maryland Office of Highway Safety, Virginia DMV

### Chapter 4

Existing Facilities for Bicyclists and Pedestrians

# CHAPTER 4: EXISTING FACILITIES FOR BICYLING AND WALKING

#### Overview

The Washington region has excellent long-distance separated facilities for bicyclists and pedestrians, and an urban core and certain regional activity centers that have good pedestrian and bicycle facilities. On the other hand, many activity centers, not originally



Informal Foot-Paths Show where People are Walking designed with pedestrians in mind, have grown dense enough to generate significant pedestrian traffic, and face challenges in terms of providing safe facilities and crossing locations for pedestrians and bicyclists. Other parts of the region have developed at low densities, with separated land uses and indirect routes, which increase pedestrian and bicycle travel time. Pedestrian and bicycle accommodations are not always provided.<sup>1</sup>

Bicycle connections with transit are generally good, with bicycle parking, bus bicycle racks, and bikes permitted on Metrorail at most hours.

Walking is the primary mode of access to transit. Conditions for pedestrian access are excellent at many rail stations, though at some rail stations, originally designed primarily with auto and transit access in mind, pedestrian access could be improved. Bus stops in places originally designed primarily for automobiles often have access and safety problems.

Pedestrians are found throughout the region, and pedestrian traffic is increasingly found

in places that were not built for it. This section highlights some of the region's successes in providing for bicycling and walking. These successes can serve as examples of what the region needs to serve its pedestrians and bicyclists.

#### **Shared-Use Paths<sup>2</sup>**

The Washington region is renowned for the quality and extent of its major shared-use paths. Shared-use paths are typically located in their own right-of-



<sup>&</sup>lt;sup>1</sup> Photo of Informal Path, Southern Avenue, Prince George's County, MD: COG/TPB, Michael Farrell

<sup>&</sup>lt;sup>2</sup> Photo of Mt. Vernon Trail, Arlington, VA: COG/TPB, Michael Farrell

### **Bicycle and Pedestrian Plan for the National Capital Region**

# CHAPTER 4: EXISTING FACILITIES FOR BICYLING AND WALKING

way, such as a canal, railway, or stream valley, or in the right-of-way of a limited-access highway or parkway, such as the George Washington Memorial Parkway. Shared-use paths are eight to twelve feet in width. The region has approximately 190 miles of major shared-use paths, either paved or level packed gravel surface suitable for road bikes. Well-known trails include the W&OD and Mount Vernon Trails in Virginia, and the C&O Canal, Capital Crescent, and Rock Creek Trails connecting the District of Columbia and Maryland. Many of the region's shared-use paths go through heavily populated areas, connect major employment centers, and get significant commuter traffic. More information on trails in the Washington region can be found at <a href="https://www.bikewashington.org">www.bikewashington.org</a>.

The region continues to build new trails along stream valleys and in conjunction with major highway projects, but the remaining inventory of disused rail lines, which often provide the best opportunities for shared-use paths, is fairly small.

#### Side-Paths<sup>3</sup>

Side-paths differ from shared-use paths in that they do not have their own right of way, but are closely adjacent to a non-limited access roadway and thus subject to more frequent conflict with driveways, side streets, and turning traffic. Side-paths differ from sidewalks in that they must be at least eight feet wide and are designed to meet the needs of bicyclists.

The Washington region has approximately 300 miles of side-paths, and there are plans to expand that mileage considerably.

Side-paths meet the need for a separated pedestrian facility and provide separation from traffic that is valued by child and slow-moving cyclists, especially in places where the road has speeds of 40 mph or more and high traffic volumes. However, the AASHTO (American Association of State Highway



and Transportation Officials) Guide for the Development of Bicycle Facilities offers a number of cautions regarding the use of side-paths or wide sidewalks for bicycles. Frequent driveways, especially with poor sightlines, are hazardous to bicyclists on sidepaths. Side-paths remove bicyclists from the motorists' line of sight and allow travel against the flow of traffic, so they may increase the potential for conflicts with motor vehicles at intersections. Since the facility is shared with pedestrians, there is also a potential for cyclist-pedestrian crashes. Side-paths are most suitable where driveways

<sup>&</sup>lt;sup>3</sup> Photo of Sidepath on the Fairfax County Parkway: Photographer Unknown

# CHAPTER 4: EXISTING FACILITIES FOR BICYLING AND WALKING

and intersections are few and sight-lines are good. Intersection crossings should be designed carefully, with a protected signal phase providing the best level of protection.

#### **Bicycle Lanes**

Bicycle lanes are marked lanes 4-6 feet wide in the public right-of-way that are by law exclusively or preferentially for use by bicyclists. Bike lanes are marked with bicycle symbols and arrows, which indicate the correct direction of travel. Bike lanes are provided on both sides of the street, except for one-way streets, and allow travel only in the same direction as adjacent motor vehicle traffic. On-street bicycle lanes are generally much less expensive than separated paths. Bike lanes decrease wrong-way riding, define the road space that cyclists are expected to use, increase cyclists' comfort level, and call attention to the presence of cyclists on the roadway. Bicycle lanes are not generally considered safe or adequate for pedestrians, though in rural areas without sidewalks the roadway shoulder serves as both a bicycle lane and as a pedestrian facility.<sup>4</sup>



The number of bicycle lanes is growing rapidly. The District of Columbia currently has 19 miles of bicycle lanes, up from three in 1995, Arlington County has 20 miles, up from three in 1995, and Montgomery County has 17 miles.<sup>5</sup> The regional mileage of bicycle lanes can be expected to expand significantly in the future as the District of Columbia, Arlington County, and Montgomery County all have ambitious plans to build more bicycle lanes. A map of regional bicycle paths,

lanes, and on-road routes can be ordered at www.adcmap.com.

#### **Dual Facilities**

In recognition of the fact that fast-moving cyclists may be better off with an on-road facility, Montgomery County is planning many of its bicycle routes as dual facilities, with both an on-road bike lane and a side-path for pedestrians and slow bicyclists. VDOT's *Northern Virginia Bikeway and Regional Trail Study* recommends that both on-and off-road accommodation be provided. Under the new routine accommodation policy, VDOT is to provide adequate facilities for pedestrians and bicyclists even if not called for in the local plan.

<sup>&</sup>lt;sup>4</sup> Bike lane photo: www.pedbikeimages.org / Dan Burden

<sup>&</sup>lt;sup>5</sup> Countywide Bikeways Functional Master Plan, March 2005. Maryland-National Capital Park and Planning Commission. Page 12.

<sup>&</sup>lt;sup>6</sup> Northern Virginia Regional Bikeway and Trail Network Study. November, 2003. Virginia Department of Transporation, Northern District Office. Page 19.

# CHAPTER 4: EXISTING FACILITIES FOR BICYLING AND WALKING

Where bicycle and pedestrian volume warrant it, and right of way permits, multi-use paths may be split into parallel pedestrian and bicycle paths. This separation allows cyclists and rollerbladers to maintain speed without risk to pedestrians. The Washington & Old Dominion Trail in Northern Virginia includes several sections with gravel pedestrian paths that parallel the paved shared-use path.

### **Signed Bicycle Routes**

The region has hundreds of miles of signed bicycle routes. Signed routes have the advantage of being inexpensive and informative for cyclists. A signed route has not necessarily had any bicycle-related improvements apart from signing. However, bicycle-friendly features such as paved shoulders, a wide curb lane, or low traffic volumes or speeds *may* be present.

### **Long-Distance Bicycle Routes**

Several notable long-distance routes promoted by national-level organizations pass through the Washington region. These include the East Coast Greenway, Bicycle Route 1, and the American Discovery Trail. The East Coast Greenway Alliance is promoting what will eventually be a mostly off-road path connecting all the major cities of the East Coast. Currently 20% open for public use, it will span 2,600 miles from Calais, Maine to Key West, Florida. With the exception of the National Capital Mall, the proposed route through the Washington region is not yet signed. Bicycle Route 1 is part of a national network of low-traffic road routes promoted by the Adventure Cycling Association. The American Discovery Trail is a coast-to-coast, recreational, non-motorized trail, which follows the C&O Canal Towpath and the Anacostia River Tributary Trails. All organizations promoting long-distance routes rely on local agencies and organizations to realize their vision.

### **Exclusive Bus/Bicycle Lanes**

Exclusive bus lanes are sometimes used on streets with heavy bus traffic. Bicycles are sometimes permitted to use those lanes. Bus/Bike Lanes can be found in the District of Columbia. Conflicts can occur due to differences in speed between buses and bicyclists.

### **Bridges**

Currently the southernmost opportunity for cyclists and pedestrians to cross the Potomac is at the 14<sup>th</sup> Street Bridge. When the Woodrow Wilson Bridge project is finished,

## Bicycle and Pedestrian Plan for the National Capital Region

# CHAPTER 4: EXISTING FACILITIES FOR BICYLING AND WALKING

bicyclists and pedestrians will be able to cross the Potomac on the capital beltway at Alexandria. The Memorial Bridge, the Theodore Roosevelt Bridge, the Key Bridge, and the Chain Bridge all have bicycle and pedestrian facilities. In the north, cyclists and pedestrians may use the ferry at White's Ferry, which connects Montgomery County and Loudoun County. Cyclists may use the US 15 bridge at Point of Rocks and the MD 17 bridge at Brunswick to get across Frederick County and Loudoun County, though they have no separated facilities.

On the Anacostia river separated bicycle and pedestrian facilities of uneven quality are available on the South Capitol Street (Frederick Douglas Memorial) bridge, the 11<sup>th</sup> Street bridge, the Pennsylvania Avenue Bridge, the East Capitol Street Bridge, and the Benning Road Bridge. The District of Columbia plans to upgrade these crossings as the Anacostia waterfront is developed.

### **Bicycles and Public Transit**

The region has made tremendous progress integrating bicycling and public transit, with secure bike parking available at most rail stations, bicycles permitted on Metrorail at most times, and most of the buses in the region now equipped with bicycle racks. Specific agency policies and facilities are described below.

### Rail

Bicycles are allowed on Metrorail at any time except weekdays from 7 to 10 a.m. and 4 to 7 p.m., and the Fourth of July. No permit is required. Only folding bicycles fully enclosed in a carrying case are permitted on MARC and VRE. Folding bicycles are allowed on Metrorail during rush hour if fully enclosed.

Bicycle racks or lockers are available at most Metrorail stations. Appendix I shows the number of lockers and rack spaces at each metro station. As of April, 2006 WMATA had 1,280 locker and 1,854 rack bicycle parking spaces at Metrorail stations.<sup>7</sup> Racks are first-come, first served.<sup>8</sup>

All VRE stations and most MARC stations have bicycle racks.

### Bus

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<sup>&</sup>lt;sup>7</sup> Bicycle Locker and Rack Survey: Existing Conditions and Planning for the Future. May 2006, WMATA. Powerpoint presentation, posted under the Bicycle and Pedestrian Subcommittee at <a href="https://www.mwcog.org">www.mwcog.org</a>.

<sup>&</sup>lt;sup>8</sup> Details on bicycle parking locations and locker rental can be found at http://www.wmata.com/Metrorail/bikeracks.cfm

# CHAPTER 4: EXISTING FACILITIES FOR BICYLING AND WALKING

Metrobuses all have racks on the front that carry not more than two bicycles. No permit is required. Information on how to use bus bike racks is available at <a href="https://www.waba.org">www.waba.org</a>. Folding bicycles are not allowed inside Metrobuses.

Montgomery County Ride-On, Arlington Transit, and Annapolis Transit buses are all equipped with bicycle racks, as are many Maryland Transit Administration buses.

### Park and Ride

Of the 175 park and ride lots in the Washington DC-MD-VA Metropolitan Statistical Area, about 50 have bike lockers or racks.

### **Pedestrian Access to Transit**

82% of Metrobus passengers walk to transit, and 60% of all Metrorail trips start with the passenger walking to the rail station. However, the quality of pedestrian access to Metrorail and Metrobus is uneven. Many suburban rail stations were built with an emphasis on automobile and bus access. Bus stops are often placed in areas with no sidewalks or available crosswalks. Inventorying conditions and recommendations for specific locations is beyond the scope of this plan, but there have been a number of efforts to do so, such as MTA's Access 2000 Study, COG/TPB's Walkable Communities Workshops, the efforts of the Bike Parking Work Group of the Bicycle and Pedestrian Subcommittee, and efforts in Fairfax County and Montgomery County to improve bus stop safety. WMATA is developing a new set of Guidelines for Station Site and Access Planning, and WMATA has plans to upgrade pedestrian access at Metrorail stations and carry out station-area development. WMATA is completing an inventory of existing conditions at bus stops in the region and will have an integrated list of conditions in 2007.

### Outlook

Facilities for bicycling and walking in the Washington region are likely to improve significantly in the future. Federal, regional, state and local policies and transit agency initiatives all call for better and more complete facilities. Bicycle lanes and dual facilities for pedestrians and bicyclists will become more common.

## **Chapter 5**

**Best Practices** 

The TPB Vision calls for a transportation system that allows convenient and safe bicycle and pedestrian access, with dynamic regional activity centers and an urban core that contain a mix of jobs, housing and services in a walkable environment. In order to achieve these goals, the Bicycle and Pedestrian Subcommittee has developed the following series of recommended best practices for consideration by the member jurisdictions. Many of the member jurisdictions have already implemented some or all of these recommendations.

### Enhance agency efforts to incorporate bicycle and pedestrian elements in all jurisdictional planning and design policies.

1. Include bicycling and walking, including provisions for persons with disabilities, in all stages of the transportation and land use planning process, from initial concept through implementation.<sup>1</sup>

The Virginia Department of Transportation (VDOT) is committed to routinely accommodating bicycling and walking "as fundamental travel modes and integral components...in the planning, funding, design, construction, operation, and maintenance of Virginia's transportation network"

- Consistent with federal policy, establish bicycle and pedestrian ways in all new construction and reconstruction transportation projects in urbanized areas unless one or more of three conditions are met:
- Bicyclists and pedestrians are prohibited by law from using the roadway. In this instance, a greater effort may be necessary to accommodate bicyclists and pedestrians elsewhere within the right of way or within the same transportation corridor.
- b. The cost of establishing bikeways or walkways would be excessively disproportionate to the need probable Excessively use. disproportionate defined is exceeding twenty percent of the cost of the larger transportation project.
- Where sparsity of population or other c. factors indicate an absence of need.
- 3. Take into account likely future demand for bicycling and walking facilities in planning transportation projects and do not adopt



<sup>&</sup>lt;sup>1</sup> Ft. Totten, DC Photo: COG/TPB, Michael Farrell

designs that would preclude future improvements.

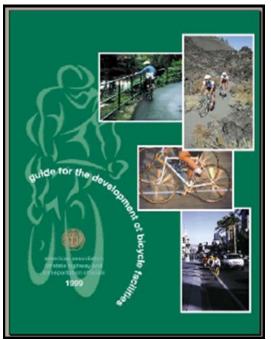
- 4. Encourage public participation by bicyclists and pedestrians and other community groups in the planning process.
- 5. Ensure adequate funding for bicycle and pedestrian transportation staff and facilities, including land acquisition, design, construction, and proper maintenance.
- In 2006, the region budgeted roughly \$69 million for bicycle and pedestrian projects, or about 2.4% of transportation capital expenditures
- 6. Integrate bicycling and walking into new development.
- Require land developers to finance and construct sidewalks, and bicycle parking facilities within their shared-use paths, developments.
- Require land developers to design developments in a way that facilitates internal and external bicycle and pedestrian access. New development should feature a dense network of interconnected streets to minimize trip distance and offer many low-speed, low-traffic routes. Superblock and cul-de-sac development patterns should

discouraged, and transit-oriented development should be encouraged.

- 7. Design, construct, operate, and maintain sidewalks, shared-use paths, street crossings (including over- and undercrossings), pedestrian signals, signs, street furniture, transit stops and facilities, and all connecting pathways so that all pedestrians, including people with disabilities, can travel safely and independently.
- 8. Improve inter-jurisdictional coordination to identify, construct and preserve multijurisdictional routes, and provide connecting links for existing routes to assure the establishment of a continuous bicycle and pedestrian transportation system throughout the Washington metropolitan area.
  - Identify networks of existing bicycle routes (both on-street and off-street) in the urban a. core, suburbs, developing fringe, as well as connecting long distance inter-city routes. Ensure that these routes are included in land use and transportation plans, and not eliminated as development occurs.
  - b. Identify shared-use path corridors before they are developed, and preserve opportunities for development as shared-use paths.
  - c. Identify existing physical barriers to bicycling (such as rivers and streams, bridges, railroad tracks, highway crossings, and limited access highways with no crossing route) and identify solutions to overcome them.

## B. Develop and adhere to consistent bicycle and pedestrian facility design and construction standards in each jurisdiction:

- 1. Develop guidelines and requirements for on-street/off-street facilities.
- 2. Assure adequate planning, construction and maintenance standards for comfortable and safe bicycling on both on-street routes and off-street paths, as well comfortable and safe walking on paths and sidewalks. Assure that safety is the primary consideration in all design standards.

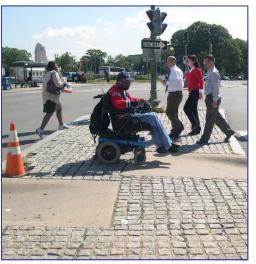


- a. Adopt, as minimum standards for privately and publicly built facilities, the AASHTO Guide for the Development of Bicycle Facilities, AASHTO's A Policy on Geometric Design of Highways and Streets, and the AASHTO Guide for the Planning, Design and Operation of Pedestrian Facilities, the ADA Accessibility Guidelines from the U.S. Architectural and Transportation Barriers Compliance Board (Access Board), and the Manual on Uniform Traffic Control Devices from the Federal Highway Administration.
- b. Establish and maintain minimum design and maintenance standards for each type of facility.
- 3. Coordinate planning and construction of routes crossing jurisdictional boundaries
- a. Implement uniform wayfinding and/or designation for inter-jurisdictional routes that will provide easily understood instructions and information.
- 4. Improve Access for Persons with Disabilities to Pedestrian Facilities<sup>2</sup>

The Transportation Planning Board's Access for All Advisory Committee has identified the following recommended best practices for improving access for persons with disabilities to pedestrian facilities. More detailed recommendations can be found in the *ADA Accessibility Guidelines* as noted above. With the exception of hand-rails on steep sidewalks, all of the following practices are legally required under the ADA for all new facilities and all reconstructed facilities:

<sup>&</sup>lt;sup>2</sup> "Lessons Learned" fact sheet for Disability Awareness Day. National Capital Region Transportation Planning Board Access for All Committee, October 20, 2004.

- a. Sidewalks should have curb ramps. Ramps should be well-maintained, well-placed, and not too steep in order to permit their use by persons in wheelchairs.<sup>3</sup>
- b. The height of wheelchair users should be considered when placing shrubs or other objects where they might block them from the view of motorists.
- c. Objects such as security barriers, fences, fire hydrants, telephone poles, parking meters, newspaper boxes, signal control boxes, and other street furniture should be placed in locations where they will not block curb ramps.
- d. The placement of crosswalk buttons must take into consideration the needs of people with disabilities.
- e. Audible pedestrian signals make communities safer for all pedestrians, including seniors and children as well as people with visual impairments.
- f. Sidewalks with steep slopes are difficult for people with disabilities to navigate, especially for people who use manual wheelchairs or people who have trouble walking. Hand rails could help mitigate these difficulties.



Poorly Placed Curb Ramps and Rough Pavement can be Difficult to Navigate in a Wheelchair



New Bike Racks and Lockers at New York Avenue Metro Station

- C. Improve bicycle and pedestrian circulation within and between regional activity centers and the urban core.
  - 1. Improve sidewalks, bikeways, intersections, signage and links to transit for bicyclists and pedestrians in activity centers
  - 2. Improve access to and between regional activity centers.
- a. Provide access to activity centers from surrounding neighborhoods.
  - b. Provide facilities to connect nearby activity centers.

<sup>&</sup>lt;sup>3</sup> Wheelchair ramp photo: COG/TPB, Access for All Committee

#### Integrate bicycling and walking into the public transportation system.<sup>4</sup> D.

- 1. Provide safe and convenient access for pedestrians and bicyclists to all Metro and commuter rail stations and park-and-ride lots.
- 2. Improve bicycle parking at Metro and commuter rail stations with well-designed racks, covered racks, and lockers. Replace broken and obsolete bicycle racks with current models. Investigate the possibility of improving commuter access to bicycle lockers and increasing usage rates by establishing automated, hourly rental service.
- 3. Improve the convenience of bringing bicycles on the Metrorail. possibility of allowing reverse commuting with bicycles on Metrorail during rush hours.



All 1,450 Washington region Metrobuses have been equipped with racks to carry up to two bikes per bus

- Provide bicycle racks on all buses.<sup>5</sup> 4.
- 5. Provide for accommodation of bicycles on future rail services in the Washington region.

#### Ε. Provide adequate bicycle support facilities.

- 1. Enact zoning laws to require bicycle parking and related facilities as part of all new construction or major renovation, including office, retail, and housing developments.
- Construct bicycle parking facilities in welltraveled and lighted areas. Facilities should be covered and secure.
- Require placement of bicycle parking b. facilities in convenient locations; short-term parking should be as close as possible to building entrances; long term parking facilities should be located in secure areas.
- Ensure the provision of showers and changing facilities in all new or renovated c. commercial developments.

<sup>&</sup>lt;sup>4</sup> Photo of NY Avenue Metro Bike Lockers: COG/TPB, Michael Farrell

<sup>&</sup>lt;sup>5</sup> Photo of Bike on Bus by WABA/Eric Gilliland

2. Provide bicycle parking on public property. Jurisdictions should install bicycle parking in public spaces where there is demand, such as public libraries, parks, and sidewalks near storefront retail.<sup>6</sup>



The District of Columbia requires Bicycle Parking in any building with Automobile Parking, and Installs Bike Racks on Public Sidewalks on Request

The Washington, D.C. Department of Transportation has established the following bicycle parking requirements for property owners:

- Bicycle parking is required for office, retail and service uses that provide car parking
- The required number of bike parking spaces is five percent (5%) of the required number of automobile parking spaces
- Bicycle parking must be convenient, secure, and well-lit
- For older buildings, one percent (1%) of the amount of required parking spaces may be converted to bicycle parking spaces
- DDOT offers free technical advice and racks for existing garages and off-street parking lots

3,425 elementary school students in the District of Columbia, Montgomery, and Prince George's Counties were trained in pedestrian and bicycle safety basics in 2004, under a program funded by the Maryland Office of Highway Safety



<sup>&</sup>lt;sup>6</sup> Photo of bike cage on Stanford Campus, COG/TPB, Michael Farrell

<sup>&</sup>lt;sup>8</sup> Photo of Girl on Bike: WABA

## F. Develop pedestrian and bicycle safety education and enforcement programs in all jurisdictions.<sup>8</sup>

- 1. Promote pedestrian and bicycle safety education programs for children, beginning at the earliest possible age.
  - a. Establish pedestrian and bicycle safety programs at the elementary school level, including classroom and on-bicycle instruction.
  - b. Develop and distribute pedestrian and bicycle safety information materials designed to teach beginning cyclists and young pedestrians.
- c. Emphasize the use of bicycle helmets as a means of injury reduction, lights after dark, reflectors, and reflective clothing for pedestrians.
- 2. Improve cycling skills and pedestrian safety habits of adults and young adults.
- a. Produce and distribute information on bicycle usage and safety.
- b. Emphasize the use of helmets for rider protection, lights after dark, reflectors, and reflective clothing for pedestrians.
- Increase motorist awareness and accommodation of bicyclists and pedestrians, and bicyclist and pedestrian awareness and accommodation of motorists.
  - a. Include bicycle and pedestrian information in automobile drivers' training classes, driver's manuals, and license exams, and through the media.
  - b. Coordinate public media campaigns with law enforcement
- 4. Encourage jurisdictional uniformity of traffic laws relating to bicycling and walking. Encourage conformity with such regulations as the Uniform Vehicle Code.



The regional "Street Smart"
Pedestrian and Bicycle Safety
Campaign urges motorists to
"Stop for Pedestrians", and
pedestrians to "Look Before
You Cross"

- 5. Encourage consistent bicycle law enforcement to assure safe bicycling and walking.
  - a. Emphasize the enforcement of traffic laws dealing with offenses known to cause crashes between bicycles and motor vehicles, such as wrong way bicycling, and ignoring stop signs and stop lights.
  - b. Emphasize enforcement of traffic laws dealing with offenses known to cause crashes between pedestrians and motor vehicles, such as motorists failing to yield to pedestrians, and pedestrians disobeying "Don't walk" signals.
- 6. Improve bicycle and pedestrian accident reporting and analysis procedures at the state and regional levels, to provide jurisdictions with a better understanding of accident causes and countermeasures.
- 7. Provide increased law enforcement presence along regional off-road trail networks and encourage interjurisdictional cooperation and coordination to provide for the safety and security of all pedestrians and bicyclists.

clists 9

Volunteer Patrols can help with Trail Security

- G. Each jurisdiction should develop a high visibility bicycle or pedestrian project to demonstrate the effectiveness of bicycling and walking as a short distance transportation mode.
  - 1. Projects should be easily implemented and supported by the community.
  - 2. Each project should enjoy the full and enthusiastic support of the government agencies responsible for implementation.
  - 3. Extensive publicity and promotion should be provided for each facility or service included in the project.
  - 4. An extensive analysis of the effectiveness of each project should be conducted following the demonstration period.

<sup>&</sup>lt;sup>9</sup> Photo of bike patrol on the C&O Towpath: COG/TPB, Michael Farrell

H. The TPB shall compile and report on best practices regarding wayfinding and signage for bicyclists and pedestrians in the Washington region. This report shall be completed no later than December, 2006. The Bicycle and Pedestrian Subcommittee of the TPB Technical Committee shall explore the creation of pedestrian and bicycle signage and wayfinding guidelines for the Washington region based on current best practices.

## **Chapter 6**

The 2030 Bicycle and Pedestrian Network

## CHAPTER 6: THE 2030 NETWORK

### The Regional Bicycle and Pedestrian Network in 2030

The Bicycle and Pedestrian Plan for the National Capital Region includes approximately 350 bicycle and pedestrian facility improvement projects from across the region. If every project in the plan is implemented, in 2030 the region will have added 223 miles of bicycle lanes and 461 miles of shared-use path. The overall network length (accounting for dual bike lane/sidepath facilities) will increase by 680 miles. In addition, hundreds of miles of signed bicycle routes (with no other improvements beyond signing) will be created. Fifty-five pedestrian intersection improvements will be carried out, and 21 pedestrian/bicycle bridges or tunnels will be built. Two new bicycle and pedestrian crossings over the Potomac will be created, at the American Legion and Woodrow Wilson Bridges, and the bridges over the Anacostia River will be improved for pedestrians and bicyclists. In addition, nineteen major streetscaping projects will improve pedestrian and bicycle access and amenities in places such as Tysons Corner, Bethesda, Ballston, Huntington Metro, Clifton, and Hillsboro. Table 6-1 below summarizes the new facility mileage that will be added by 2030 if this plan is implemented in full.

| Table 6-1: Miles of Bicycle/Pedestrian Facilities in the Washington Region |                     |                                 |                     |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------|---------------------|---------------------------------|---------------------|--|--|--|--|--|--|--|
| Facility Type                                                              | Total<br>in<br>2005 | Planned New Facilities/Upgrades | Total<br>in<br>2030 |  |  |  |  |  |  |  |
| Bicycle Lane                                                               | 56                  | 223                             | 279                 |  |  |  |  |  |  |  |
| Shared-Use Path                                                            | 490                 | 461                             | 951                 |  |  |  |  |  |  |  |
| Total                                                                      | 546                 | 684                             | 1230                |  |  |  |  |  |  |  |

### **Cost Estimates**

The total cost of improvements listed in the plan is estimated at about \$530 million (2006 dollars). Project-specific cost estimates have been provided by sponsoring agencies for about 35% of the listings (shown for these projects in Appendix A), totaling about \$190 million. Of the \$190 million in identified costs, \$112 million is included in the CLRP.

The remaining 65% of the projects, based upon a global cost per mile or per facility estimate, are projected to cost about \$340 million. See Table 6-2 for costs imputed to projects that had no sponsor cost estimate. Costs estimates for individual projects are not provided because accurate estimates cannot be made at the project level with the information available.

| Table 6-2: Imputed                        | Table 6-2: Imputed Costs (\$1,000's) |                                        |              |  |  |  |  |  |  |  |  |  |
|-------------------------------------------|--------------------------------------|----------------------------------------|--------------|--|--|--|--|--|--|--|--|--|
| Facility Type                             | Average Imputed Cost per Mile or per | Miles or Number of<br>Projects with No | Imputed Cost |  |  |  |  |  |  |  |  |  |
|                                           | Project                              | Assigned Cost                          |              |  |  |  |  |  |  |  |  |  |
| Multi-Use Path                            | \$1,000                              | \$291,000                              |              |  |  |  |  |  |  |  |  |  |
| Bicycle Lane                              | \$20                                 | 157 miles                              | \$3,140      |  |  |  |  |  |  |  |  |  |
| Pedestrian/Bicycle<br>Bridge/Tunnel       | \$3,000                              | 6 projects                             | \$18,000     |  |  |  |  |  |  |  |  |  |
| Pedestrian<br>Intersection<br>Improvement | \$500                                | 50 projects                            | \$25,000     |  |  |  |  |  |  |  |  |  |
| Streetscape                               | \$2,000                              | 1 project                              | \$2,000      |  |  |  |  |  |  |  |  |  |
| Total                                     |                                      |                                        | \$339,140    |  |  |  |  |  |  |  |  |  |

### **Explanation of Project listings**

Appendix A lists the plan projects, organized alphabetically by state and jurisdiction. Facility type, responsible agencies, limits, length, and cost are also included. Note that due to the nature of bicycle and pedestrian facility improvements, the list in Appendix A is expected to change annually, as projects are added or removed.

The project list is drawn from a database that includes more extensive information, including project status, agency project ID number, facility lengths, facility alignment, description, project status, project web site, date of (projected) completion, date the record was last updated, and project manager name and contact information. Agency staff may enter via a password-protected web site to enter, edit, and delete project information, making the process of keeping the database accurate simple. Over time the database should prove useful in tracking the progress of projects. A sample database entry and a data dictionary are found in Appendix B.

This project list is intended to be a list of significant planned bicycle and pedestrian projects in the Washington region. Agencies were encouraged to submit projects for inclusion if they were one mile or more in length, or cost more than \$300,000. Small sidewalk projects were not included unless they were part of a larger pedestrian or bicycle project.

Figures 6-1 and 6-2 show the location of major bicycle and pedestrian projects throughout the region. All pedestrian/bicycle bridge or tunnel projects, multi-use paths greater than three miles in length, and projects estimated by their sponsors to cost more that \$400,000 are mapped, except for area projects that cannot be mapped in a meaningful way. About a quarter of the plan projects are mapped. Project details can be found in the project list in Appendix A.

## CHAPTER 6: THE 2030 NETWORK

Figures 6-3 and 6-4 show the location of major bicycle and pedestrian projects that are included in the CLRP or are funded.

Table 6-3 lists the mapped projects. Project numbers are sequential but not continuous because not all projects are mapped.

|                   | Table 6-3: Mapped Bicycle and Pe             | edestrian Projects         |      |
|-------------------|----------------------------------------------|----------------------------|------|
| Project<br>Number | Project Name                                 | Project Type               | CLRP |
| 1                 | Anacostia Riverwalk Trail                    | Shared-Use Path            | Υ    |
| 6                 | Dalecarlia Parkway Trail Design              | Shared-Use Path            | Υ    |
| 7                 | Metropolitan Branch Trail                    | Shared-Use Path            | Υ    |
| 8                 | New Pedestrian Bridge over Anacostia Freeway | Pedestrian/Bicycle Bridge  | Υ    |
| 9                 | Oxon Run Trail Restoration                   | Shared-Use Path            | Υ    |
| 10                | Pedestrian Tunnel                            | Pedestrian/Bicycle Bridge  | Υ    |
| 11                | Rock Creek Park Trail                        | Shared-Use Path            | Υ    |
| 15                | Union Station Bike Station                   | Bicycle Parking            | Υ    |
| 16                | Watts Branch Trail                           | Shared-Use Path            | Υ    |
| 17                | College Park Trolley Trail                   | Shared-Use Path            | Υ    |
| 19                | American Legion Bridge                       | Pedestrian/Bicycle Bridge  |      |
| 22                | Bel Pre Road - East                          | Shared-Use Path            |      |
| 23                | Bethesda Bikeway and Pedestrian Facilities   | Streetscape                | Υ    |
| 24                | Bowie Mill Road                              | Bike Lane                  |      |
| 26                | Briggs Chaney Road East                      | Shared-Use Path            |      |
| 27                | Briggs Chaney Road West                      | Bike Lane                  |      |
| 29                | Clarksburg Road (MD 121)/Stringtown Road     | Shared-Use Path            |      |
| 30                | Clopper Road/Diamond Avenue (MD 117)         | Shared-Use Path, Bike Lane |      |
| 35                | Darnestown Road (MD 28) - North              | Shared-Use Path, Bike Lane |      |
| 36                | Democracy Boulevard                          | Shared-Use Path            |      |
| 44                | Falls Road (MD 189)                          | Shared-Use Path            |      |
| 47                | Forest Glen Pedestrian Bridge                | Pedestrian/Bicycle Bridge  | Υ    |
| 49                | Frederick Road (MD 355) - Upcounty           | Shared-Use Path            |      |
| 50                | Georgia Avenue (MD 97) - North               | Shared-Use Path            |      |
| 53                | Germantown Road (MD 118)                     | Shared-Use Path            |      |
| 56                | Goshen Road/Brink Road                       | Shared-Use Path            |      |
| 60                | ICC Bike Path                                | Shared-Use Path            |      |
| 64                | Macarthur Boulevard                          | Shared-Use Path            |      |

## Bicycle and Pedestrian Plan for the National Capital Region

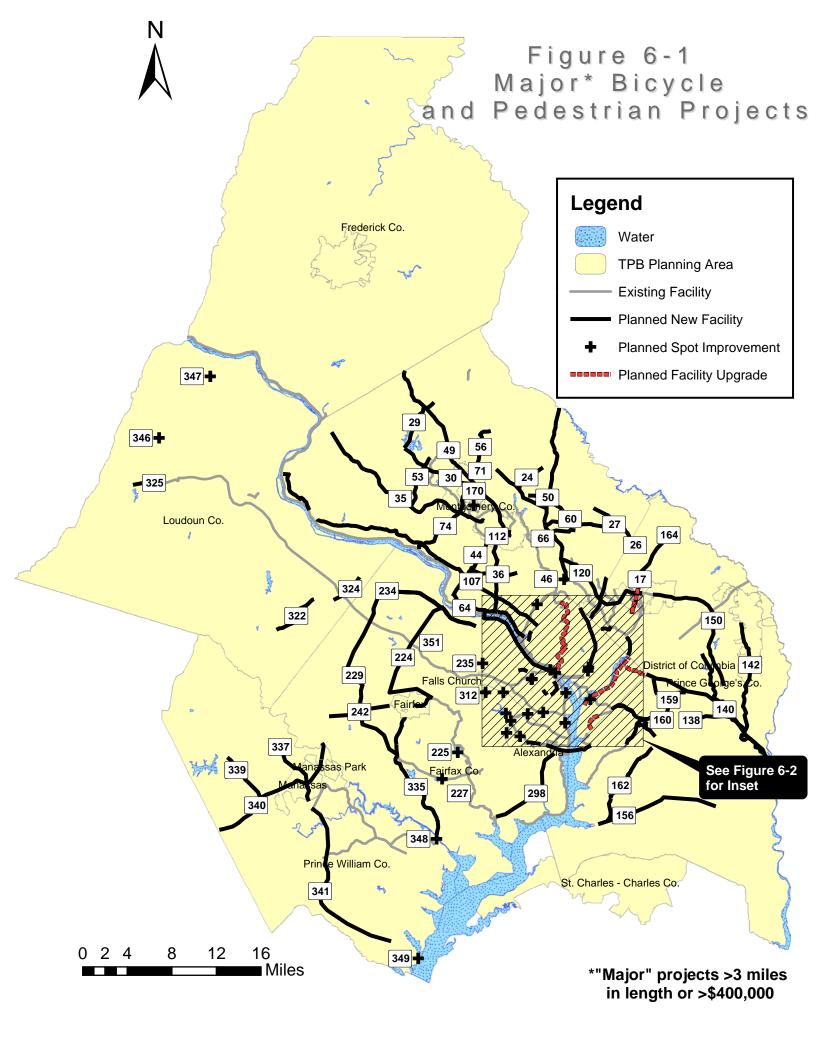
## CHAPTER 6: THE 2030 NETWORK

| Project<br>Number | Project Name                                                     | Project Type                                        | CLRP |
|-------------------|------------------------------------------------------------------|-----------------------------------------------------|------|
| 66                | Matthew Henson Trail                                             | Shared-Use Path                                     | Υ    |
| 71                | Mid-County Highway                                               | Shared-Use Path                                     |      |
| 74                | Muddy Branch Road                                                | Shared-Use Path                                     |      |
| 75                | Muncaster Mill Road (MD 115)/Norbeck Road                        | Shared-Use Path                                     |      |
| 80                | New Hampshire Avenue                                             | Shared-Use Path                                     |      |
| 107               | River Road (MD190)                                               | Shared-Use Path                                     |      |
| 112               | Seven Locks Road                                                 | Shared-Use Path                                     | Υ    |
| 120               | University Boulevard                                             | Shared-Use Path                                     | •    |
| 131               | Addison Road                                                     | Bike Lane                                           |      |
| 133               | Anacostia River Trail (Prince George's)                          | Shared-Use Path                                     |      |
| 134               | Auth Road                                                        | Shared-Use Path                                     | Υ    |
| 138               | Cabin Branch Trail                                               | Shared-Use Path                                     | '    |
| 140               | Chesapeake Beach Rail-Trail                                      | Shared-Use Path                                     |      |
| 140               | Collington Branch                                                | Shared-Use Path                                     |      |
| 144               | Folly Branch Trail                                               | Shared-Use Path                                     |      |
| 148               | Henson Creek Trail Extension                                     | Shared-Use Path                                     | Y    |
| 150               | MD 193                                                           |                                                     | I    |
|                   |                                                                  | Shared-Use Path, Bike Lane Shared-Use Path          |      |
| 156               | Piscataway Creek Trail                                           | Shared-Use Path                                     | Y    |
| 158               | Prince George's Connector                                        |                                                     | Y    |
| 159               | Ritchie Marlboro Road                                            | Shared-Use Path                                     |      |
| 160               | Suitland Parkway Trail                                           | Shared-Use Path                                     | Y    |
| 162               | Tinkers Creek Trail                                              | Shared-Use Path                                     |      |
| 164               | US 1                                                             | Shared-Use Path, Bike Lane                          |      |
| 167               | Western Branch Trail                                             | Shared-Use Path                                     |      |
| 168               | Woodrow Wilson Bridge                                            | Pedestrian/Bicycle Bridge                           | Υ    |
| 170               | Ped-Bike Bridge over I-270 on MD28                               | Pedestrian/Bicycle Bridge                           |      |
| 180               | George Washington Parkway Crossing                               | Pedestrian/Bicycle Bridge                           | Y    |
| 182               | I-395 Shirlington Underpass, Four Mile Run Trail                 | Pedestrian/Bicycle Bridge                           | Υ    |
| 183               | Old Dominion Drive                                               | Streetscape/Pedestrian                              | Υ    |
| 184               | Old Jefferson Davis Highway/Mt. Vernon Trail CO                  | Pedestrian/Bicycle Bridge                           |      |
| 187               | Route 110 Trail                                                  | Shared-Use Path                                     | Y    |
| 190               | VA 120 (Glebe Road)                                              | Streetscape/Pedestrian                              | Y    |
| 193<br>195        | Washington Boulevard Trail Phase II  Mount Vernon Trail Extensio | Shared-Use Path Shared-Use Path                     | Y    |
| 195               | Chambliss Stream Crossing                                        | Pedestrian/Bicycle Bridge                           | Y    |
| 197               | Duke Street Pedestrian Bridge                                    | Pedestrian/Bicycle Bridge Pedestrian/Bicycle Bridge | Y    |
| 200               | Eisenhower Trail                                                 | Shared-Use Path                                     | Y    |
| 202               | King Street/Beauregard/Walter Reed Interchange                   | Pedestrian Intersection                             | '    |
| 202               | g 311301 Badi Sgard, Walter Rood Interestable                    | Improvement                                         |      |
| 207               | Woodrow Wilson Bridge - VA                                       | Pedestrian/Bicycle Bridge                           | Υ    |
| 208               | Accotink Gateway Connector Trail                                 | Shared-Use Path                                     |      |
| 223               | Columbia Pike                                                    | Shared-Use Path                                     | Υ    |
| 224               | Cross County Trail                                               | Shared-Use Path                                     | Υ    |
| 225               | Danbury Forest                                                   | Pedestrian/Bicycle Bridge                           |      |
| 229               | Fairfax County Parkway Trail                                     | Shared-Use Path                                     | Υ    |

## Bicycle and Pedestrian Plan for the National Capital Region

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| Project | Project Name                            | Project Type              | CLRP |
|---------|-----------------------------------------|---------------------------|------|
| Number  |                                         |                           |      |
| 234     | Georgetown Pike Trail                   | Shared-Use Path           |      |
| 264     | Fairfax County Parkway Trail            | Shared-Use Path           |      |
| 234     | Georgetown Pike Multi-Use Path          | Shared-Use Path           |      |
| 235     | Great Falls Street Trail                | Shared-Use Path           |      |
| 242     |                                         | Shared-Use Path           |      |
| 260     | Little River Turnpike                   | Pedestrian Intersection   |      |
|         |                                         | Improvement               |      |
| 298     | Richmond Highway Pedestrian and Bicycle | Pedestrian Intersection   | Υ    |
|         | Improvements                            | Improvement               |      |
| 308     | Trap Road                               | Pedestrian/Bicycle Bridge |      |
| 312     | US 50 Install Median Barrier and Fence  | Streetscape/Pedestrian    |      |
| 313     | US 50 Pedestrian Bridge                 | Pedestrian/Bicycle Bridge | Υ    |
| 357     | US 50 Pedestrian Improvements           | Streetscape/Pedestrian    | Y    |
| 322     | Old Ox Road Widening                    | Shared-Use Path           | Υ    |
| 324     | VA 846 Sterling Boulevard               | Streetscape/Pedestrian    | Υ    |
| 325     | W&OD Trail Extension                    | Shared-Use Path           | Υ    |
| 335     |                                         | Shared-Use Path           | Υ    |
| 337     | Bus 234 Add Signalized Crosswalks       | Streetscape/Pedestrian    | Y    |
| 339     | Linton Hall Road Widening               | Shared-Use Path           | Υ    |
| 340     | Route 28 Trail Extension                | Shared-Use Path           | Υ    |
| 341     | VA 234 Bike Trail                       | Shared-Use Path           | Υ    |
| 346     | Pedestrian Study and Improvements       | Streetscape/Pedestrian    |      |
| 347     | Ped and Bike Path Network               | Streetscape/Pedestrian    |      |
| 348     | Riverfront Boardwalk                    | Streetscape/Pedestrian    |      |
| 349     | Potomac Avenue                          | Streetscape/Pedestrian    | Υ    |
| 352     | Rosslyn Circle Crossing                 | Streetscape/Pedestrian    | Υ    |
| 353     | Theodore Roosevelt Bridge               | Pedestrian/Bicycle Bridge |      |
|         |                                         |                           |      |



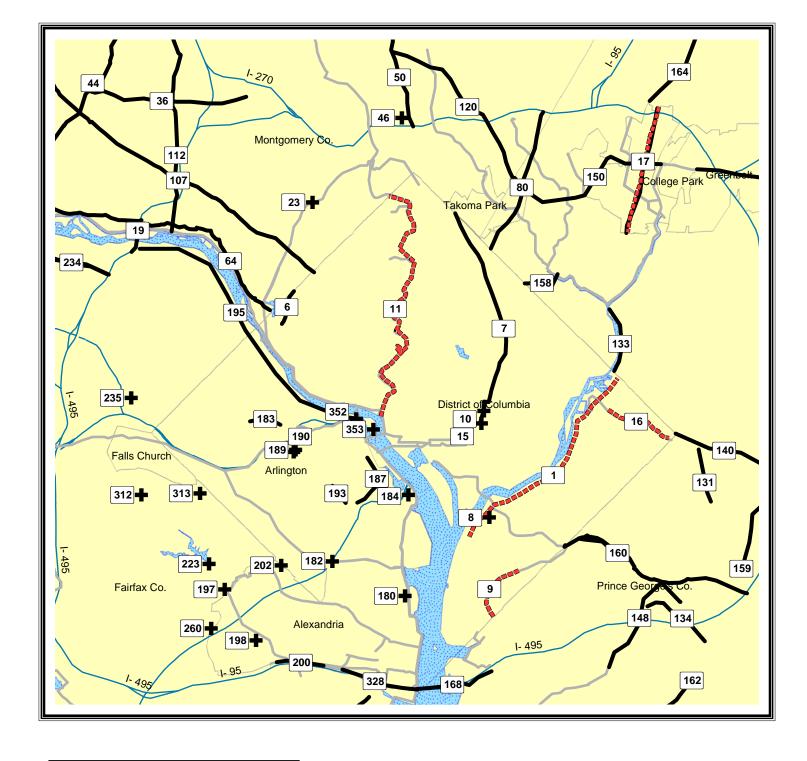
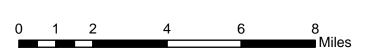
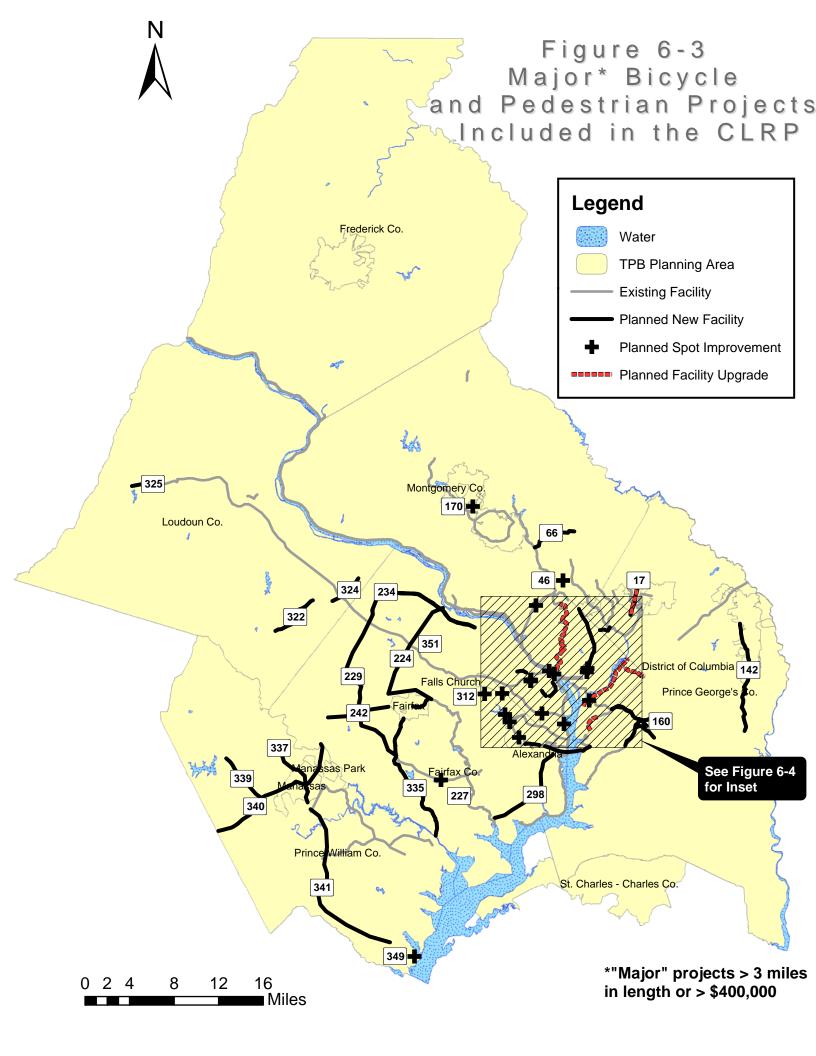




Figure 6-2: Major\* Bicycle and Pedestrian Projects in the Central Washington Region



\*"Major" projects > 3 miles in length or > \$400,000



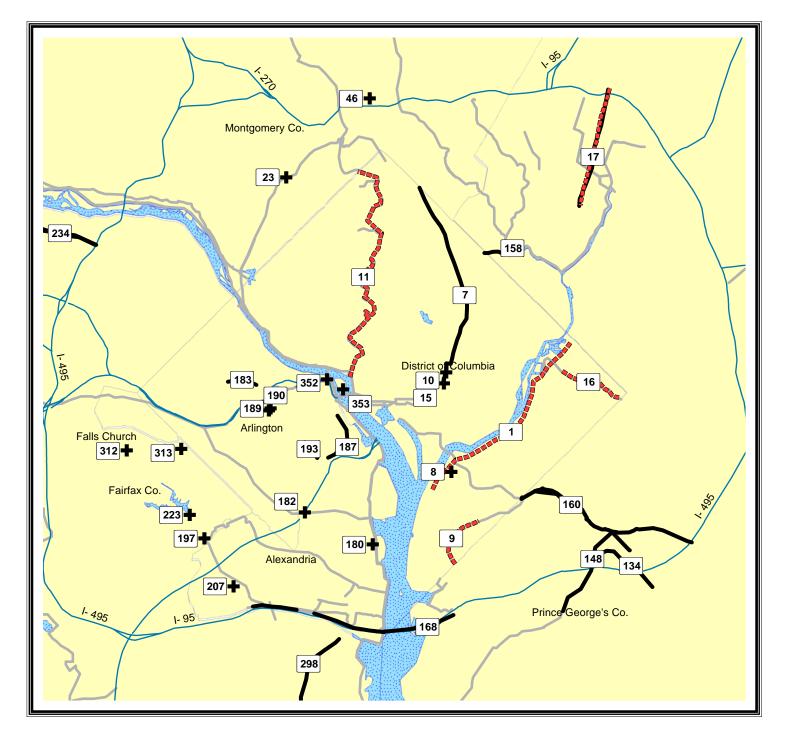




Figure 6-4: Major\* Bicycle and Pedestrian Projects in the Central Washington Region Included in the CLRP



\*"Major" projects > 3 miles in length or > \$400,000



## **Appendices**

## Appendix A

## Bicycle and Pedestrian Projects

Of the Long-Range Bicycle and Pedestrian Plan For the National Capital Region This appendix contains a complete list of the projects in the Bicycle and Pedestrian Plan for the National Capital Region. Below is a guide to the printed project list. Appendix B contains a data dictionary for the electronic database, which contains more information than this printed list, as well as a sample data entry form.

| PROJECT LIST DATA DI             | ICTIONARY                                                                                                                                                                                                                  |                            |  |  |  |  |  |  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|--|--|--|--|--|
| Field                            | Explanation                                                                                                                                                                                                                |                            |  |  |  |  |  |  |
| Line Number                      | Short ID number used to label projects on the m                                                                                                                                                                            | aps                        |  |  |  |  |  |  |
| Agency Project ID                | The sponsoring agency's project identifying nur                                                                                                                                                                            | nber                       |  |  |  |  |  |  |
| Project Name                     | Descriptive name provided by the sponsoring ag                                                                                                                                                                             | gency                      |  |  |  |  |  |  |
| From                             | Project Limits                                                                                                                                                                                                             |                            |  |  |  |  |  |  |
| То                               | Project Limits                                                                                                                                                                                                             |                            |  |  |  |  |  |  |
| Length (Miles)                   | Length of the project from start to finish in mile if a project consists of four miles of road with a bike lane and sidewalk, the project length is four projects that have no length, such as bicycle racilength is zero. | continuous<br>r miles. For |  |  |  |  |  |  |
| Responsible Agencies             | Agencies responsible for implementing the projection otherwise involved                                                                                                                                                    | ect or                     |  |  |  |  |  |  |
| Bike Lane                        | Bike lanes are striped lanes at least 4' wide in the of-way, marked for the exclusive use of bicyclist                                                                                                                     | 1                          |  |  |  |  |  |  |
| Multi-Use Path                   | A paved or hard-surface path separated from traffic, officially designated for bicycles and other non-motorized users.  Should be at least 8' wide.                                                                        |                            |  |  |  |  |  |  |
| Sidewalk                         | Sidewalks are usually less than 8' wide, and are for bicyclists.                                                                                                                                                           | not designed               |  |  |  |  |  |  |
| Type of Spot/Area<br>Improvement | For non-linear projects. The pull-down menu graph following options:                                                                                                                                                       | ives the                   |  |  |  |  |  |  |
| _                                |                                                                                                                                                                                                                            | Code Letter                |  |  |  |  |  |  |
|                                  | 1. Pedestrian Intersection Improvement                                                                                                                                                                                     | I                          |  |  |  |  |  |  |
|                                  | 2. Pedestrian/Bicycle Bridge or Tunnel                                                                                                                                                                                     | В                          |  |  |  |  |  |  |
|                                  | 3. Traffic Calming                                                                                                                                                                                                         | TC                         |  |  |  |  |  |  |
|                                  | 4. Streetscape/Pedestrian Improvements                                                                                                                                                                                     | S                          |  |  |  |  |  |  |
|                                  | 5. Bicycle Parking                                                                                                                                                                                                         | PK                         |  |  |  |  |  |  |
|                                  | 6. Bicycle Route Marking                                                                                                                                                                                                   | BR                         |  |  |  |  |  |  |
| I CLDD                           | 7. Other                                                                                                                                                                                                                   | 0                          |  |  |  |  |  |  |
| In CLRP                          | Project is in the 2005 Financially Constrained L                                                                                                                                                                           | 0                          |  |  |  |  |  |  |
|                                  | Transportation Plan for the National Capital Reg                                                                                                                                                                           |                            |  |  |  |  |  |  |
|                                  | therefore is officially considered to have funding                                                                                                                                                                         | g available to             |  |  |  |  |  |  |
| In TIP                           | support project completion.  Project is in the most recent National Capital Re                                                                                                                                             | ogion                      |  |  |  |  |  |  |
| 111 111                          | Transportation Improvement Program with spec<br>amounts identified for program completion.                                                                                                                                 |                            |  |  |  |  |  |  |

| Field  | Explanation                                         |                         |
|--------|-----------------------------------------------------|-------------------------|
| Status | The pull-down menu offers the following             | ng options:             |
|        |                                                     | Code Letter             |
|        | 1. Fully Funded <sup>1</sup>                        | F                       |
|        | 2. Partially Funded                                 | P                       |
|        | 3. Unfunded                                         | U                       |
|        | 4. Under Construction                               | UC                      |
|        | 5. Complete*                                        | C                       |
| Cost   | In thousands of dollars. As many proje              | • •                     |
|        | be built for many years, and have not be            | • •                     |
|        | can be a very rough estimate. If a proje            | 1 0                     |
|        | project the total project cost is <i>not</i> listed | d, only that portion of |
|        | the cost which is attributable to the bicy          | cle or pedestrian       |
|        | facility. Use of a rule of thumb for such           | h estimates was         |
|        | acceptable, i.e. 3% of total project cost.          | Many projects do not    |
|        | have a cost estimate available.                     |                         |

<sup>\*</sup> This database is mean to list planned facilities rather than existing facilities, but as time passes many projects in it will be completed.

<sup>&</sup>lt;sup>1</sup> "Funded" indicates that the sponsoring agency has considered funding for completion of this project to be reasonably available within projected funding sources. "Unfunded" indicates, that while the project has been identified, there is no projected funding to support its completion at this time.

## 2006 Bike/Ped Plan Project List

|    | Project ID | Project/Facility Name           | From                           | То                                            | Length<br>(Miles) | Responsible<br>Agencies        | Bike<br>Lane | Path     | Side<br>walk | Spot/<br>Area | In<br>CLRP | In<br>TIP | Status | Cost<br>(\$1,000s) |
|----|------------|---------------------------------|--------------------------------|-----------------------------------------------|-------------------|--------------------------------|--------------|----------|--------------|---------------|------------|-----------|--------|--------------------|
| 1  |            | Anacostia Riverwalk Trail       | Potomac River                  | Maryland                                      | 20                | DDOT                           |              | <b>~</b> |              |               | <b>✓</b>   | <b>✓</b>  | Р      | 20,000             |
| 2  |            | Bicycle Lanes                   |                                |                                               | 30                | DDOT                           | <b>~</b>     |          |              |               |            | <b>✓</b>  | Р      | \$600              |
| 3  |            | Bicycle Parking Racks           |                                |                                               |                   | DDOT                           |              |          |              | Р             | <b>✓</b>   | <b>✓</b>  | Р      | \$500              |
| 4  |            | Bicycle Route Signs             |                                |                                               |                   | DDOT                           |              |          |              | R             |            | <b>✓</b>  | Р      | \$300              |
| 5  |            | Cultural/Heritage Trail System  |                                |                                               |                   | DDOT                           |              |          |              |               |            | <b>✓</b>  | U      | \$0                |
| 6  |            | Dalecarlia Parkway Trail design | Massachusetts Avenue, NW       | Loughboro Road, NW                            | 2                 | DDOT                           |              | <b>✓</b> |              |               |            |           | Р      | \$1,000            |
| 7  |            | Metropolitan Branch Trail       | Union Station                  | Takoma Park                                   | 7                 | DDOT                           | <b>✓</b>     | <b>✓</b> |              |               | <b>~</b>   | <b>✓</b>  | Р      | 20,000             |
| 8  | CDT D1     | New Pedestrian Bridge           | Over Anacostia Freeway         | Near Firth Sterling                           | 1                 | DDOT                           |              | <b>~</b> |              | В             |            | <b>✓</b>  | Р      | \$2,000            |
| 9  |            | Oxon Run Trail Restoration      | South Capitol Street           | Southern Avenue                               | 2                 | DDOT                           |              | <b>✓</b> |              |               |            | <b>✓</b>  | Р      | \$1,500            |
| 10 |            | Pedestrian Passageway/Tunnel    | 1st Street Metro Station Kiosk | 1st Street, N.E. (Under H Street<br>Overpass) | 1                 | DDOT                           |              |          | <b>✓</b>     | В             |            | <b>✓</b>  | F      | \$2,000            |
| 11 |            | Rock Creek Park Trail           |                                |                                               | 4                 | DDOT, National Park<br>Service |              | <b>✓</b> |              |               |            | <b>✓</b>  | Р      | \$2,500            |
| 12 |            | Rose Park Trail                 |                                |                                               |                   | DDOT                           |              |          |              |               |            | <b>✓</b>  | Р      | \$0                |
| 13 |            | Safe Routes to School Program   |                                |                                               |                   | DDOT                           |              |          |              |               |            | <b>✓</b>  | F      | \$5,000            |
| 14 |            | Sidewalk Construction           |                                |                                               |                   | DDOT                           |              |          | <b>✓</b>     |               |            |           | Р      | \$2,000            |
| 15 | ZU0        | Union Station Bike Station      | (Union Station)                |                                               |                   | DDOT                           |              |          |              |               |            | <b>✓</b>  | Р      | \$600              |
| 16 |            | Watts Branch Trail              | Minnesota Ave                  | 62nd Street, NE                               | 2                 | DDOT                           |              | <b>~</b> |              |               |            | <b>✓</b>  | F      | \$2,500            |

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|    | Project ID Project/Facility Name | From         | То          | Length<br>(Miles) | Responsible<br>Agencies | Bike Side Spo<br>Lane Path walk Are | ot/ In In<br>ea CLRP TIP Status | (\$1,000s) |
|----|----------------------------------|--------------|-------------|-------------------|-------------------------|-------------------------------------|---------------------------------|------------|
| 17 | College Park Trolley Trail       | Paducah Road | Albion Road | 4                 | City of College Park    |                                     | ППР                             | \$500      |

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|    | Project ID | Project/Facility Name                      | From                                    | То                                 | Length<br>(Miles) | Responsible<br>Agencies                | Bike Side<br>Lane Path walk | Spot/ I<br>Area Cl | n<br>_RP | In<br>TIP Stat | Cost<br>us (\$1,000s) |
|----|------------|--------------------------------------------|-----------------------------------------|------------------------------------|-------------------|----------------------------------------|-----------------------------|--------------------|----------|----------------|-----------------------|
| 18 | 509325     | ADA Compliance Transportation Access       | Countywide                              |                                    |                   | Montgomery County<br>DPWT              |                             |                    |          | <b>✓</b>       | \$0                   |
| 19 | SP-76      | American Legion Bridge                     | Macarthur Blvd                          | Fairfax County Line                | 1                 | MDOT, M-NCPPC,<br>Montgomery County    |                             |                    |          |                | \$0                   |
| 20 | 507596     | Annual Bikeway Program                     | countywide                              |                                    |                   | Montgomery County<br>DPWT              |                             |                    |          | <b>✓</b>       | \$0                   |
| 21 | 506747     | Annual Sidewalk Program                    | countywide                              |                                    |                   | Montgomery County<br>DPWT              |                             |                    |          | <b>✓</b>       | \$0                   |
| 22 | SP-30      | Bel Pre Road - east                        | Georgia Avenue (MD97)                   | Layhill Road (MD182)               | 2                 | M-NCPPC,<br>Montgomery County          |                             |                    |          |                | \$0                   |
| 23 |            | Bethesda Bikeway and Pedestrian Facilities | Bethesda CBD                            |                                    |                   | Montgomery County<br>DPWT              |                             | S [                |          | <b>✓</b>       | \$0                   |
| 24 | BL-20      | Bowie Mill Road                            | Muncaster Mill Road (MD115)             | Olney-Laytonsville Road<br>(MD108) | 3                 | Montgomery County<br>DPWT, M-NCPPC     | <b>V</b>                    |                    |          |                | \$0                   |
| 25 | DB-4       | Bradley Boulevard (MD191)                  | Persimmon Tree Road                     | Wisconsin Avenue (MD355)           | 6                 | M-NCPPC,<br>Montgomery County,<br>MDOT | <b>V</b>                    |                    |          |                | \$0                   |
| 26 | SP-19      | Briggs Chaney Road East                    | Old Columbia Pike                       | Prince George's County line        | 2                 | Montgomery County<br>DPWT, M-NCPPC     |                             |                    |          |                | \$0                   |
| 27 | BL-14      | Briggs Chaney Road West                    | New Hampshire Avenue                    | Old Columbia Pike                  | 3                 | M-NCPPC,<br>Montgomery County          | <b>V</b>                    |                    |          |                | \$0                   |
| 28 | SP-75      | CCT-Black Hill connector                   | Crystal Rock Drive                      | Black Hill Regional Park           | 1                 | M-NCPPC,<br>Montgomery County          |                             |                    |          |                | \$0                   |
| 29 | DB-18      | Clarksburg Road (MD121)/ Stringtown Road   | Clopper Road (MD117)                    | MidCounty Highway                  | 5                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                             | [                  |          |                | \$0                   |
| 30 | DB-17      | Clopper Road/Diamond Avenue (MD117)        | Summit Avenue                           | Clarksburg Road (MD121)            | 3                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                             |                    |          |                | \$0                   |
| 31 | DB-9       | Columbia Pike (US29) North                 | New Hampshire Avenue/<br>Lockwood Drive | Spencerville Road (MD198)          | 7                 | MDOT, M-NCPPC,<br>Montgomery County    |                             |                    |          |                | \$0                   |
|    | =          |                                            |                                         |                                    |                   |                                        |                             |                    |          |                |                       |

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|    | Project ID | Project/Facility Name                 | From                                  | То                                 | Length<br>(Miles) | Responsible<br>Agencies                | Bike<br>Lane Pa | Side<br>th walk | Spot/ In<br>Area CLRP | In<br>TIP Status | Cost<br>(\$1,000s) |
|----|------------|---------------------------------------|---------------------------------------|------------------------------------|-------------------|----------------------------------------|-----------------|-----------------|-----------------------|------------------|--------------------|
| 32 | SP-66      | Corridor Cities Transitway bike path  | Shady Grove Metrorail Station         | Frederick Road (MD355)             | 4                 | Montgomery County<br>DPWT, MTA         |                 | · _             |                       |                  | \$0                |
| 33 | SP-53      | Crabbs Branch Way                     | Gude Drive                            | Shady Grove Road                   | 1                 | M-NCPPC,<br>Montgomery County          |                 | · _             |                       |                  | \$0                |
| 34 | SP-59      | Darnestown Road - south               | Key West Avenue (MD28)                | Wootton Parkway                    | 2                 | M-NCPPC,<br>Montgomery County          |                 | · _             |                       |                  | \$0                |
| 35 | DB-16      | Darnestown Road (MD28) - North        | Seneca Road                           | Great Seneca Highway (MD119)       | 5                 | MDOT, Montgomery<br>County, M-NCPPC    | <b>V</b>        | · _             |                       |                  | \$0                |
| 36 | SP-2       | Democracy Boulevard                   | Falls Road (MD189)                    | Old Georgetown Road                | 4                 | M-NCPPC,<br>Montgomery County          |                 | · _             |                       |                  | \$0                |
| 37 | SP-38      | Doctor Bird Road/Norwood Road (MD182) | Layhill Road (MD182)                  | Olney-Sandy Spring Road<br>(MD108) | 3                 | MDOT, Montgomery<br>County, M-NCPPC    |                 | · _             |                       |                  | \$0                |
| 38 | SP-44      | East Jefferson Street                 | Montrose Road                         | Rollins Avenue                     | 2                 | M-NCPPC,<br>Montgomery County          |                 | · _             |                       |                  | \$0                |
| 39 | SP-31      | Ednor Road/Layhill Road               | Norbeck Road (MD28)                   | New Hampshire Avenue<br>(MD650)    | 2                 | M-NCPPC,<br>Montgomery County          |                 | · _             |                       |                  | \$0                |
| 40 | BL-7       | Elm Street                            | Exeter Road                           | Wisconsin Avenue (MD355)           | 1                 | M-NCPPC,<br>Montgomery County          | <b>V</b>        |                 |                       |                  | \$0                |
| 41 | BL-25      | Executive Boulevard                   | Woodglen Road/North Bethesda<br>Trail | Montrose Road                      | 1                 | M-NCPPC,<br>Montgomery County          | <b>V</b>        |                 |                       |                  | \$0                |
| 42 | BL-13      | Fairland Road - West                  | Randolph Road                         | Columbia Pike (US 29)              | 2                 | M-NCPPC,<br>Montgomery County          | <b>V</b>        |                 |                       |                  | \$0                |
| 43 | SP-18      | Fairland Road East                    | Columbia Pike (US29)                  | Prince George's County line        | 2                 | M-NCPPC,<br>Montgomery County          |                 | · _             |                       |                  | \$0                |
| 44 | SP-1       | Falls Road (MD189)                    | MacArthur Boulevard                   | Wootton Parkway                    | 5                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                 | · _             |                       |                  | \$0                |
| 45 | BL-31      | Fieldcrest Road                       | Woodfield Road (MD124)                | Olney-Laytonsville Road<br>(MD108) | 2                 | M-NCPPC,<br>Montgomery County          | ✓ [             |                 |                       |                  | \$0                |

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|    | Project ID | Project/Facility Name             | From                                                | То                                              | Length<br>(Miles) | Responsible<br>Agencies                | Bike<br>Lane Path | Side<br>walk | Spot/ In<br>Area CLRI | lr<br>P Ti | n<br>IP Status | Cost<br>(\$1,000s) |
|----|------------|-----------------------------------|-----------------------------------------------------|-------------------------------------------------|-------------------|----------------------------------------|-------------------|--------------|-----------------------|------------|----------------|--------------------|
| 46 | 509976     | Forest Glen Pedestrian Bridge     | west side of Georgia Avenue at<br>Locust Grove Road | west side of Georgia Avenue at Forest Glen Road |                   | Montgomery County<br>DPWT              |                   |              |                       | V          |                | \$0                |
| 47 | SP-13      | Forest Glen Road - central        | Belvedere Place                                     | Sligo Creek Trail                               | 1                 | Montgomery County<br>DPWT, M-NCPPC     |                   |              |                       |            |                | \$0                |
| 48 | SP-64      | Frederick Road (MD355)            | Gude Drive                                          | Watkins Mill Road                               | 5                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                   |              |                       |            |                | \$0                |
| 49 | SP-72      | Frederick Road (MD355)-Upcounty   | Watkins Mill Road                                   | Frederick County line                           | 7                 | MDOT, Montgomery<br>County, M-NCPPC    |                   |              |                       |            |                | \$0                |
| 50 | SP-29      | Georgia Avenue (MD97) - North     | Olney-Laytonsville Road (MD108)                     | Glenmont Metrorail station                      | 6                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                   |              |                       |            |                | \$0                |
| 51 | BL-22      | Georgia Avenue (MD97) - Upcounty  | Brookeville Bypass                                  | Howard County line                              | 4                 | MDOT, MCDPWT                           | <b>V</b>          |              |                       |            |                | \$0                |
| 52 | SP-39      | Georgia Avenue (MD97)-Brookeville | Olney-Sandy Spring Road<br>(MD108)                  | Brookeville Road                                | 2                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                   |              |                       |            |                | \$0                |
| 53 | SP-67      | Germantown Road (MD118)           | Darnestown Road (MD28)                              | Frederick Road (MD355)                          | 7                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                   |              |                       |            |                | \$0                |
| 54 | SP-24      | Glenallen Avenue                  | Randolph Road                                       | Kemp Mill Road                                  | 2                 | M-NCPPC,<br>Montgomery County          |                   |              |                       |            |                | \$0                |
| 55 | BL-1       | Goldboro Road (MD614)             | MacArthur Boulevard                                 | Bradley Boulevard (MD191)                       | 2                 | M-NCPPC,<br>Montgomery County,<br>MDOT | <b>✓</b>          |              |                       |            |                | \$0                |
| 56 | SP-61      | Goshen Road/Brink Road            | MidCounty Highway                                   | (Woodfield Road (MD124)                         | 4                 | Montgomery County<br>DPWT, M-NCPPC     |                   |              |                       |            |                | \$0                |
| 57 | SP-23      | Greencastle Road - east           | Robey Road                                          | Prince George's County line                     | 2                 | Montgomery County<br>DPWT, M-NCPPC     |                   |              |                       |            |                | \$0                |
| 58 | SP-43      | Grosvenor Connector               | Beach Drive                                         | Metro station                                   | 1                 | M-NCPPC,<br>Montgomery County          |                   |              |                       |            |                | \$0                |

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|    | Project ID | Project/Facility Name                             | From                                         | То                                       | Length<br>(Miles) | Responsible<br>Agencies                | Bike<br>Lane F |          | ide Sp<br>alk Ar | ot/ In<br>ea CLRP | In<br>TIP | Status | Cost<br>(\$1,000s) |
|----|------------|---------------------------------------------------|----------------------------------------------|------------------------------------------|-------------------|----------------------------------------|----------------|----------|------------------|-------------------|-----------|--------|--------------------|
| 59 | SP-33      | Hines Road-North Branch connector                 | Rock Creek's North Branch Trail              | Cashell Road                             | 1                 | M-NCPPC,<br>Montgomery County          |                | <b>~</b> |                  |                   |           |        | \$0                |
| 60 | SP-40      | ICC bike path                                     | I-370 terminus                               | Prince George's County line              | 9                 | MDOT, M-NCPPC,<br>Montgomery County    |                | <b>~</b> |                  |                   |           | Р      | \$0                |
| 61 | BL-18      | Layhill Road (MD182)                              | Georgia Avenue (MD97)                        | Norbeck Road (MD28)                      | 2                 | MDOT, Montgomery<br>County             | ✓ [            |          |                  |                   |           |        | \$0                |
| 62 | DB-10      | Lockwood Drive                                    | Columbia Pike (US29)                         | New Hampshire Avenue<br>(MD650)          | 3                 | M-NCPPC,<br>Montgomery County          |                | <b>/</b> |                  |                   |           |        | \$0                |
| 63 | SP-60      | Long Draft Road                                   | Quince Orchard Road                          | Clopper Road (MD117)                     | 2                 | M-NCPPC,<br>Montgomery County          |                | <b>/</b> |                  |                   |           |        | \$0                |
| 64 | DB-1       | MacArthur Boulevard                               | Seven Locks Road                             | Falls Road (MD189)                       | 4                 | Montgomery County<br>DPWT, M-NCPPC     |                | <b>/</b> |                  |                   |           |        | \$0                |
| 65 |            | Mathew Henson Trail                               | Alderton Lane                                | Rock Creek Trail                         |                   | Montgomery County<br>DPWT              |                |          |                  |                   | <b>✓</b>  |        | \$0                |
| 66 |            | Mathew Henson Trail                               | Rock Creek Trail (west of Viers<br>Mill Rd.) | Georgia Avenue                           | 4                 | Montgomery County<br>DPWT, M-NCPPC     |                | <b>/</b> |                  |                   | <b>✓</b>  |        | \$0                |
| 67 | SP-21      | MD198/MD28 shared use path                        | Layhill Road                                 | Old Columbia Pike                        | 3                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                | <b>✓</b> |                  |                   |           |        | \$0                |
| 68 | DB-6       | MD384 connector to Silver Spring Metro<br>Station | 16th Street                                  | East-West Highway                        | 1                 | Montgomery County<br>DPWT, M-NCPPC     |                | <b>/</b> |                  |                   |           |        | \$0                |
| 69 |            | Metropolitan Branch Trail                         | Silver Spring Metro/Transit Center           | Montgomery College Campus<br>Takoma Park | 1                 | Montgomery County<br>DPWT              |                | <b>/</b> |                  |                   |           |        | \$0                |
| 70 | SP-12      | Metropolitan Branch Trail                         | Silver Spring Metro Station                  | DC Line                                  | 1                 | Montgomery County<br>DPWT              |                | <b>/</b> |                  |                   |           |        | \$0                |
| 71 | SP-70      | MidCounty Highway                                 | ICC                                          | Frederick Road (MD355)                   | 4                 | Montgomery County<br>DPWT, M-NCPPC     |                | <b>/</b> |                  |                   |           |        | \$0                |
| 72 | SP-71      | Middlebrook Road                                  | Father Hurley Boulevard                      | MidCounty Highway                        | 2                 | M-NCPPC,<br>Montgomery County          |                | <b>✓</b> |                  |                   |           |        | \$0                |

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|    | Project ID | Project/Facility Name                            | From                      | То                                 | Length<br>(Miles) | Responsible<br>Agencies                | Bike<br>Lane Path | Spot/ In<br>Area CLRP | In<br>TIP Status | Cost<br>(\$1,000s) |
|----|------------|--------------------------------------------------|---------------------------|------------------------------------|-------------------|----------------------------------------|-------------------|-----------------------|------------------|--------------------|
| 73 | SP-50      | Montrose Road/Parkway                            | Falls Road                | Veirs Mill Road (MD586)            | 2                 | Montgomery County<br>DPWT, M-NCPPC     |                   |                       |                  | \$0                |
| 74 | SP-62      | Muddy Branch Road                                | Darnestown Road (MD28)    | Clopper Road (MD117)               | 3                 | M-NCPPC,<br>Montgomery County          |                   |                       |                  | \$0                |
| 75 | SP-28      | Muncaster Mill Road (MD115)/ Norbeck Road (MD28) | Woodfield Road            | Georgia Avenue (MD97)              | 5                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                   |                       |                  | \$0                |
| 76 | BL-26      | Nebel Street - north                             | Old Georgetown Road       | Randolph Road                      | 1                 | M-NCPPC,<br>Montgomery County          | <b>V</b>          |                       |                  | \$0                |
| 77 | DB-13      | Nebel Street - south                             | Nicholson Lane            | Old Georgetown Road                | 1                 | M-NCPPC,<br>Montgomery County          | <b>V</b>          |                       |                  | \$0                |
| 78 | SP-47      | Nebel Street extended                            | Randolph Road             | Chapman Avenue                     | 1                 | M-NCPPC,<br>Montgomery County          |                   |                       |                  | \$0                |
| 79 | DB-14      | Needwood Road                                    | Redland Road              | Muncaster Mill Road (MD115)        | 1                 | M-NCPPC,<br>Montgomery County          |                   |                       |                  | \$0                |
| 80 | SP-11      | New Hampshire Avenue                             | DC Line                   | I-495                              | 4                 | MDOT, Montgomery<br>County             |                   |                       |                  | \$0                |
| 81 | SP-15      | New Hampshire Avenue (MD650) - Ashton            | Ednor Road                | Olney-Sandy Spring Road<br>(MD108) | 2                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                   |                       |                  | \$0                |
| 82 | BL-11      | New Hampshire Avenue (MD650) - Colesville        | Randolph Road             | Spencerville Road (MD198)          | 4                 | M-NCPPC,<br>Montgomery County,<br>MDOT | <b>✓</b> □        |                       |                  | \$0                |
| 83 | DB-8       | New Hampshire Avenue (MD650) - Ednor             | Spencerville Road (MD198) | Ednor Road                         | 2                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                   |                       |                  | \$0                |
| 84 | DB-7       | New Hampshire Avenue (MD650) - Hillendale        | I-495                     | Lockwood Drive                     | 1                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                   |                       |                  | \$0                |
| 85 | BL-27      | Nicholson Lane/Parklawn Drive                    | Nebel Street              | Twinbrook Parkway                  | 3                 | Montgomery County<br>DPWT, M-NCPPC     | <b>✓</b> □        |                       |                  | \$0                |

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|    | Project ID | Project/Facility Name                             | From                       | То                                         | Length<br>(Miles) | Responsible<br>Agencies                | Bike<br>Lane Pat | Side<br>h walk |   | In<br>TIP | Status | Cost<br>(\$1,000s) |
|----|------------|---------------------------------------------------|----------------------------|--------------------------------------------|-------------------|----------------------------------------|------------------|----------------|---|-----------|--------|--------------------|
| 86 | DB-12      | Norbeck Road (MD28)                               | Georgia Avenue (MD97)      | Layhill Road                               | 3                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                  |                |   |           |        | \$0                |
| 87 | SP-41      | North Bethesda Trail                              | Cedar Lane                 | Twinbrook Metrorail station                | 4                 | M-NCPPC,<br>Montgomery County          | <b>V V</b>       |                | ] |           | UC     | \$0                |
| 88 | 509922     | North Bethesda Trail                              | Twinbrook Metro Station    | Norfolk/Rugby Ave. intersection (Bethesda) | 2                 | Montgomery County<br>DPWT              | <b>V V</b>       |                | ] | <b>✓</b>  |        | \$0                |
| 89 | SP-3       | North Bethesda Trail-NIH connector                | Battery Lane               | Cedar Lane                                 | 1                 | Montgomery County<br>DPWT              |                  |                | ] |           |        | \$0                |
| 90 | BL-21      | Norwood Road                                      | Layhill Road (MD182)       | New Hampshire Avenue<br>(MD650)            | 2                 | Montgomery County<br>DPWT, M-NCPPC     | <b>V</b>         |                | ] |           |        | \$0                |
| 91 | SP-5       | Oaklyn Drive/Persimmon Tree Road                  | MacArthur Boulevard        | Falls Road (MD189)                         | 3                 | M-NCPPC,<br>Montgomery County          |                  |                | ] |           |        | \$0                |
| 92 | SP-69      | Observation Drive                                 | Germantown Road (MD118)    | Frederick Road (MD355)                     | 2                 | M-NCPPC,<br>Montgomery County          |                  |                |   |           |        | \$0                |
| 93 | SP-73      | Old Baltimore Road/New Cut Road                   | Clarksburg Road (MD121)    | Frederick Road (MD355)                     | 1                 | M-NCPPC,<br>Montgomery County          |                  |                |   |           |        | \$0                |
| 94 | 509953     | Old Columbia Pike                                 | E. Randolph Road           | MD 198                                     |                   | Montgomery County<br>DPWT              |                  |                | ] | <b>✓</b>  |        | \$0                |
| 95 | SP-36      | Olney-Laytonsville Road (MD108) -<br>Laytonsville | Laytonsville Town boundary | Olney Mill Road                            | 3                 | M-NCPPC,<br>Montgomery County          |                  |                |   |           |        | \$0                |
| 96 | SP-37      | Olney-Sandy Spring Road (MD108) - Ashton          | Layhill Road (MD182)       | Howard County line                         | 2                 | M-NCPPC,<br>Montgomery County,<br>MDOT |                  |                | ] |           |        | \$0                |
| 97 |            | Pedestrian Safety Program                         |                            |                                            |                   | Montgomery County<br>DPWT              |                  |                | ] |           |        | \$0                |
| 98 | SP-56      | Piney Meetinghouse Road                           | River Road (MD190)         | Darnestown Road                            | 4                 | M-NCPPC,<br>Montgomery County          | <b>V</b>         |                | ] |           |        | \$0                |
| 99 | SP-58      | Quince Orchard Road                               | Dufief Mill Road           | Darnestown Road (MD28)                     | 3                 | M-NCPPC,<br>Montgomery County          |                  |                | ] |           |        | \$0                |

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|     | Project ID | Project/Facility Name                              | From                          | То                                              | Length<br>(Miles) | Responsible<br>Agencies                | Bike<br>Lane Path | Side<br>walk | Spot/ In<br>Area CLRP | In<br>TIP Status | Cost<br>(\$1,000s) |
|-----|------------|----------------------------------------------------|-------------------------------|-------------------------------------------------|-------------------|----------------------------------------|-------------------|--------------|-----------------------|------------------|--------------------|
| 100 | BL-15      | Randolph Road - central                            | Parklawn Drive                | Veirs Mill Road (MD586)                         | 2                 | M-NCPPC,<br>Montgomery County          | <b>V</b>          |              |                       |                  | \$0                |
| 101 | SP-26      | Randolph Road - east                               | Veirs Mill Road (MD586)       | Kemp Mill Road/ Northwest<br>Branch Trail       | 3                 | M-NCPPC,<br>Montgomery County          |                   |              |                       |                  | \$0                |
| 102 | SP-25      | Randolph Road - west                               | Rockville Pike (MD355)        | Parklawn Drive                                  | 3                 | M-NCPPC,<br>Montgomery County          |                   |              |                       |                  | \$0                |
| 103 | BL-29      | Redland Road - east                                | Needwood Road                 | Muncaster Mill Road (MD115)                     | 2                 | M-NCPPC,<br>Montgomery County          | <b>v</b>          |              |                       |                  | \$0                |
| 104 | SP-54      | Redland Road - west                                | Shady Grove Metrorail station | Needwood Road                                   | 1                 | Montgomery County<br>DPWT, M-NCPPC     |                   |              |                       |                  | \$0                |
| 105 | SP-65      | Richter Farm Road                                  | Great Seneca Highway (MD119)  | Clopper Road (MD117)                            | 2                 | M-NCPPC,<br>Montgomery County          |                   |              |                       |                  | \$0                |
| 106 | BL-34      | Riffleford Road                                    | Darnestown Road (MD28)        | Germantown Road (MD118)                         | 3                 | M-NCPPC,<br>Montgomery County          | <b>V</b>          |              |                       |                  | \$0                |
| 107 | DB-2       | River Road (MD190)                                 | DC line                       | Seneca Road (MD112)                             | 13                | M-NCPPC,<br>Montgomery County,<br>MDOT |                   |              |                       |                  | \$0                |
| 108 | SP-14      | Rock Creek Trail-Forest Glen Metro connector       | Stoneybrook Road              | Seminary Road                                   | 1                 | M-NCPPC,<br>Montgomery County          |                   |              |                       |                  | \$0                |
| 109 | SP-48      | Rock Springs Connector                             | Democracy Boulevard           | Tuckerman Lane                                  | 2                 | M-NCPPC,<br>Montgomery County          |                   |              |                       |                  | \$0                |
| 110 | SP-49      | Rockville Pike (MD355) - north                     | Halpine Road                  | Veirs Mill Road (MD586)/<br>Norbeck Road (MD28) | 3                 | M-NCPPC,<br>Montgomery County          |                   |              |                       |                  | \$0                |
| 111 | BL-33      | Seneca Road                                        | River Road (MD190)            | Darnestown Road (MD28)                          | 3                 | M-NCPPC,<br>Montgomery County          | <b>V</b>          |              |                       |                  | \$0                |
| 112 | DB-3       | Seven Locks Road                                   | Wootton Parkway               | MacArthur Boulevard                             | 5                 | Montgomery County<br>DPWT, M-NCPPC     |                   |              |                       |                  | \$0                |
| 113 | BL-30      | Shady Grove Road - east<br>Shady Grove Road - east | Frederick Road (MD355)        | Muncaster Mill Road (MD115)                     | 3                 | M-NCPPC,<br>Montgomery County          | <b>✓</b> □        |              |                       | ☐ UC             | \$0                |

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|     | Project ID | Project/Facility Name                             | From                        | То                            | Length<br>(Miles) | Responsible<br>Agencies                | Bike Si<br>Lane Path wa | de Spot/ In<br>alk Area CLRI | In<br>P TIP Status | Cost<br>(\$1,000s) |
|-----|------------|---------------------------------------------------|-----------------------------|-------------------------------|-------------------|----------------------------------------|-------------------------|------------------------------|--------------------|--------------------|
| 114 | DB-15      | Shady Grove Road - west                           | Darnestown Road             | Frederick Road (MD355)        | 4                 | M-NCPPC,<br>Montgomery County          | <b>V V</b>              |                              |                    | \$0                |
| 115 | 509975     | Silver Spring Green Trail                         | Silver Spring Metro Station | Sligo Creek Hiker-Biker Trail | 2                 | Montgomery County<br>DPWT              | <b>V</b> [              |                              | ✓                  |                    |
| 116 | SP-20      | Spencerville Road (MD198) - Fairland              | Old Columbia Pike           | Prince George's County line   | 2                 | MDOT, Montgomery<br>County             |                         |                              |                    | \$0                |
| 117 | BL-24      | Tilden Lane                                       | Nicholson Lane              | Hounds Way                    | 1                 | M-NCPPC,<br>Montgomery County          | <b>V</b> [              |                              |                    | \$0                |
| 118 | SP-42      | Tuckerman Lane                                    | Old Georgetown Road         | Rockville Pike (MD355)        | 1                 | Montgomery County<br>DPWT, M-NCPPC     | <b>V</b> [              |                              |                    | \$0                |
| 119 | BL-28      | Twinbrook Parkway                                 | Frederick Road (MD355)      | Veirs Mill Road (MD586)       | 2                 | Montgomery County<br>DPWT, M-NCPPC     | <b>V</b> [              |                              |                    | \$0                |
| 120 | DB-5       | University Boulevard                              | Georgia Avenue              | Prince George's County Line   | 5                 | MDOT, Montgomery<br>County, M-NCPPC    |                         |                              |                    | \$0                |
| 121 | BL-16      | Viers Mill Road (MD586) - west                    | Twinbrook Parkway           | Matthew Henson Trail          | 2                 | M-NCPPC,<br>Montgomery County,<br>MDOT | <b>V</b>                |                              |                    | \$0                |
| 122 | SP-74      | Watkins Mill Road                                 | Frederick Road (MD355)      | MidCounty Highway             | 3                 | M-NCPPC,<br>Montgomery County          |                         |                              |                    | \$0                |
| 123 | SP-10      | Wayne Avenue Green Trail                          | Spring Street               | Sligo Creek Trail             | 1                 | Montgomery County<br>DPWT, M-NCPPC     |                         |                              |                    | \$0                |
| 124 | SP-4       | West Cedar Lane                                   | Old Georgetown Road         | Beach Drive                   | 2                 | M-NCPPC,<br>Montgomery County          |                         |                              |                    | \$0                |
| 125 | SP-7       | Western Avenue                                    | River Road                  | Chevy Chase Circle            | 1                 | M-NCPPC,<br>Montgomery County          |                         |                              |                    | \$0                |
| 126 | BL-4       | Westlake Terrage/Fernwood Road/Green<br>Tree Road | Rockledge Drive             | Old Georgetown Road           | 4                 | M-NCPPC,<br>Montgomery County          | <b>V</b> [              |                              |                    | \$0                |
| 127 | BL-8       | Willard Avenue Bike Lanes                         | Willard Avenue Park         | Wisconsin Avenue              | 1                 | M-NCPPC,<br>Montgomery County          | <b>V</b>                |                              |                    | \$0                |

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|     | Project ID | Project/Facility Name      | From                | То           |   | Responsible<br>Agencies                | Bike<br>Lane Pat | Side<br>h walk | Spot/<br>Area C | In I | In<br>⊺IP Status | (\$1,000s) |
|-----|------------|----------------------------|---------------------|--------------|---|----------------------------------------|------------------|----------------|-----------------|------|------------------|------------|
| 128 | BL-2       | Wilson Lane (MD188) - west | MacArthur Boulevard | Elmore Lane  | 2 | M-NCPPC,<br>Montgomery County,<br>MDOT | <b>V</b>         |                | [               |      |                  | \$0        |
| 129 | SP-8       | Wisconsin Avenue Path      | Bradley Lane        | Oliver Lane  | 2 | M-NCPPC,<br>Montgomery County          | <b>V</b>         |                |                 |      |                  | \$0        |
| 130 | BL-6       | Woodmont Avenue            | Bethesda Avenue     | Battery Lane | 1 | M-NCPPC,<br>Montgomery County          | <b>V</b>         |                |                 |      |                  | \$0        |

|     | Project ID | Project/Facility Name                           | From                          | То                                 | Length<br>(Miles) | Responsible<br>Agencies                                     | Bike<br>Lane |          | Spot/ In<br>Area CLRF | In<br>TIP | Status | Cost<br>(\$1,000s) |
|-----|------------|-------------------------------------------------|-------------------------------|------------------------------------|-------------------|-------------------------------------------------------------|--------------|----------|-----------------------|-----------|--------|--------------------|
| 131 |            | Addison Road                                    | MD 214                        | Walker Mill Road                   | 1                 | Prince Georges<br>County                                    | <b>✓</b>     |          |                       |           | Р      | \$2,343            |
| 132 |            | Allentown Road                                  | MD 5                          | Old Fort Road                      | 6                 | Prince Georges<br>County                                    | <b>✓</b>     |          |                       |           |        |                    |
| 133 |            | Anacostia River Trail                           | Bladensburg Marina            | Wash. D.C. line                    | 1                 | M-NCPPC, Prince<br>Georges County                           |              | <b>✓</b> |                       |           | F      | \$500              |
| 134 |            | Auth Road                                       | MD 337 (Allentown Road)       | MD 5 (Branch Avenue)               | 4                 | Prince Georges<br>County                                    | <b>✓</b>     | ✓        |                       |           | F      | \$450              |
| 135 |            | Bock Road                                       | Livingston Road               | Tucker Road                        | 2                 | Prince Georges<br>County                                    | <b>✓</b>     |          |                       |           |        |                    |
| 136 |            | Brinkley Road                                   | Allentown Road                | St. Barnabas road                  | 3                 | Prince Georges<br>County                                    | <b>✓</b>     |          |                       |           |        |                    |
| 137 |            | Cabin Branch Trail                              | MD 214                        | Cheverly Metro                     | 1                 | M-NCPPC, Prince<br>Georges County                           |              | ✓        |                       |           |        | \$260              |
| 138 |            | Cabin Branch Trail                              | Presidential Corporate Center | Western Branch                     | 5                 | M-NCPPC, Prince<br>Georges County                           |              | ✓        |                       |           |        | \$1,350            |
| 139 |            | Chesapeake Beach Rail-Trail                     | MD 214                        | Capital Beltway                    | 3                 | M-NCPPC, Prince<br>Georges County                           |              | ✓        |                       |           | Р      | \$650              |
| 140 |            | Chesapeake Beach Rail-Trail                     | Capital Beltway               | Upper Marlboro                     | 5                 | M-NCPPC, Prince<br>Georges County                           |              | ✓        |                       |           |        | \$1,080            |
| 141 |            | Chesapeake Beach Rail-Trail                     | MD 704                        | Addison Road Metro                 | 1                 | M-NCPPC, Prince<br>Georges County, City<br>of Seat Pleasant |              | <b>✓</b> |                       |           |        | \$200              |
| 142 |            | Collington Branch Trail                         | MD 214                        | Upper Marlboro                     | 6                 | M-NCPPC, Prince<br>Georges County                           |              | ✓        |                       |           | Р      | \$2,000            |
| 143 |            | East Coast Greenway American Discovery<br>Trail | Washington D.C.               | Anne Arundel County                | 14                | MDOT, M-NCPPC,<br>Prince Georges<br>County                  | <b>✓</b>     | <b>✓</b> |                       |           |        | \$0                |
| 144 |            | Folly Branch Trail                              | Bald Hill Branch              | Glenwood Park Neighborhood<br>Park | 3                 | M-NCPPC, Prince<br>Georges County                           |              | <b>✓</b> |                       |           |        | \$1,000            |

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Prince George's County, MD

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| P   | roject ID | Project/Facility Name                  | From                                  | То                            | Length<br>(Miles) | Responsible<br>Agencies                                     | Bike<br>Lane Pa | Side<br>th walk | In<br>P TIP | Status | Cost<br>(\$1,000s) |
|-----|-----------|----------------------------------------|---------------------------------------|-------------------------------|-------------------|-------------------------------------------------------------|-----------------|-----------------|-------------|--------|--------------------|
| 145 |           | Fort Foote Road                        | Oxon Hill Road (north)                | Oxon Hill Road (south)        | 3                 | Prince Georges<br>County                                    | <b>V</b>        |                 |             |        |                    |
| 146 |           | Fort Washington Road                   | MD 210                                | Fort Washington National Park | 3                 | Prince Georges<br>County                                    | <b>V</b>        |                 |             |        |                    |
| 147 |           | Good Luck Road                         | MD 193                                | MD 201                        | 5                 | Prince Georges<br>County                                    | <b>V</b>        |                 |             |        |                    |
| 148 |           | Henson Creek Trail extension           | Brinkley Road                         | Branch Avenue Metro           | 2                 | M-NCPPC, Prince<br>Georges County                           |                 | · _             |             | Р      | \$1,367            |
| 149 |           | Livingston Road                        | Oxon Hill Road                        | MD 210                        | 2                 | Prince Georges<br>County                                    | <b>✓</b>        |                 |             | Р      |                    |
| 150 |           | MD 193                                 | MD 564                                | Montgomery Co. line           | 9                 | MDOT                                                        | <b>V</b>        | · _             |             |        | \$0                |
| 151 |           | Mitchellville Road                     | Mount Oak Road                        | US 301                        | 1                 | Prince Georges<br>County                                    |                 | · [             |             |        | \$300              |
| 152 |           | Old Fort Road                          | MD 210                                | Fort Washington Road          | 1                 | Prince Georges<br>County                                    | <b>V</b>        |                 |             |        |                    |
| 153 |           | Oxon Hill Road                         | MD 210                                | Livingston Road               | 3                 | Prince Georges<br>County                                    | <b>✓</b>        |                 |             |        |                    |
| 154 |           | Oxon Hill Road (MD 414)                | MD 210                                | St. Barnabas Road             | 1                 | MDOT                                                        | <b>V</b>        |                 |             |        | \$350              |
| 155 |           | Paint Branch Trail extension           | Cherry Hill Road                      | Sellman Road                  | 1                 | M-NCPPC, Prince<br>Georges County                           |                 | · _             |             |        | \$250              |
| 156 |           | Piscataway Creek Trail                 | Dower House Branch near<br>Cheltenham | Potomac River                 | 11                | M-NCPPC, Prince<br>Georges County,<br>National Park Service |                 |                 |             | Р      | \$2,300            |
| 157 |           | Potomac Heritage On-Road Bicycle Route | Oxon Cove Park                        | Piscataway                    | 6                 | Prince Georges<br>County, DPW&T                             | <b>V</b>        |                 |             |        | \$0                |
| 158 |           | Prince George's Connector              | Chillum Road                          | Gallatin Street               | 1                 | M-NCPPC, Prince<br>Georges County                           |                 | · _             |             | F      | \$400              |
| 159 |           | Ritchie Marlboro Road                  | Old Marlboro Pike                     | Capital Beltway               | 5                 | Prince Georges<br>County                                    |                 |                 |             |        | \$1,100            |

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| Pro | ject ID Project/Facility Name | From                | То                      | Length<br>(Miles) | Responsible<br>Agencies           | Bike Side Spo<br>Lane Path walk Are | ot/ In In<br>ea CLRP TIP Statu | Cost<br>s (\$1,000s) |
|-----|-------------------------------|---------------------|-------------------------|-------------------|-----------------------------------|-------------------------------------|--------------------------------|----------------------|
| 160 | Suitland Parkway Trail        | Washington D.C.     | MD 4                    | 6                 | National Park Service             | e 🗌 🗸 🗌                             |                                | \$0                  |
| 161 | Temple Hills Road             | Saint Barnabas Road | Piscataway Road         | 6                 | Prince Georges<br>County          |                                     |                                |                      |
| 162 | Tinkers Creek Trail           | MD 5                | Piscataway Creek        | 8                 | M-NCPPC, Prince<br>Georges County |                                     |                                | \$1,600              |
| 163 | Tucker Road                   | Saint Barnabas Road | Allentown Road          | 3                 | Prince Georges<br>County          | ✓ 🗆 🗆                               |                                |                      |
| 164 | US 1                          | Sunnyside Avenue    | Contee Road             | 4                 | MDOT                              | <b>V V</b>                          |                                | \$1,000              |
| 165 | US 1 (College Park)           | Sunnyside Avenue    | Albion Road             | 2                 | MDOT                              |                                     |                                | \$0                  |
| 166 | WB&A Spur Trail               | WB&A Trail          | Fran Uhler Natural Area | 2                 | M-NCPPC, Prince<br>Georges County |                                     |                                |                      |
| 167 | Western Branch Trail          | Lottsford Road      | Upper Marlboro          | 10                | M-NCPPC, Prince<br>Georges County |                                     |                                | \$3,100              |

|     | Project ID Project/Facility Name | From           | То       | Length<br>(Miles) | Responsible<br>Agencies | Bike Side Spot/ In In Lane Path walk Area CLRP TIP Status (\$1,000s) |
|-----|----------------------------------|----------------|----------|-------------------|-------------------------|----------------------------------------------------------------------|
| 168 | Woodrow Wilson Bridge            | Oxon Hill Road | Virginia | 1                 | MDOT                    | □ □ B □ UC \$0                                                       |

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|     | Project ID | Project/Facility Name                  | From                                 | То              | Length<br>(Miles) | Responsible<br>Agencies                                           | Bike Side Spot<br>Lane Path walk Area | t/ In In<br>a CLRP TIP Status | Cost<br>(\$1,000s) |
|-----|------------|----------------------------------------|--------------------------------------|-----------------|-------------------|-------------------------------------------------------------------|---------------------------------------|-------------------------------|--------------------|
| 169 | 9C61       | Bicycle Route System Improvements      | City wide project                    |                 |                   | City of Rockville                                                 |                                       | P                             | \$1,057            |
| 170 | 3E60       | Ped/Bike Bridge Over I-270 along MD 28 | Adclare Rd and Nelson Street         | Darnestown Road | 2                 | City of Rockville,<br>Maryland State<br>Highway<br>Administration | _ <b>✓</b> _ B                        | F                             | \$4,714            |
| 171 | 4B71       | Pedestrian Safety                      | Citywide project                     |                 |                   | City of Rockville                                                 |                                       | P                             | \$1,598            |
| 172 | 6B21       | West End Sidewalks                     | Rockville's West End<br>neighborhood |                 |                   | City of Rockville                                                 |                                       | P                             | \$370              |

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Cost Length Responsible Bike Side Spot/ In In To From Lane Path walk Area CLRP TIP Status (\$1,000s) Project ID Project/Facility Name (Miles) Agencies Piney Branch Road M-NCPPC, 173 BL-10 Carroll Avenue Bike Lanes DC Line \$0 Montgomery County

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|     | Project ID | Project/Facility Name                                 | From                               | То                                      | Length<br>(Miles) | Responsible<br>Agencies                    | Bike<br>Lane Pa | Side<br>th wal | e Spor | / In<br>a CLRP | In<br>TIP | Status | Cost<br>(\$1,000s) |
|-----|------------|-------------------------------------------------------|------------------------------------|-----------------------------------------|-------------------|--------------------------------------------|-----------------|----------------|--------|----------------|-----------|--------|--------------------|
| 174 |            | Arlington Boulevard Ped and Bike Trail                | Fairfax Drive                      | N. Meade Street                         | 1                 | Arlington County,<br>Arlington County      |                 | · [            |        |                | <b>✓</b>  |        | \$350              |
| 175 |            | Arlington Boulevard Ped and Bike Trail                | N. Meade Street /Arl. Blvd. Bridge | Service Rd                              | 1                 | Arlington County,<br>Arlington County      |                 | · [            |        |                |           |        | \$120              |
| 176 | BK87       | Arlington Boulevard Trail Renovation                  |                                    |                                         | 1                 | Arlington County,<br>VDOT                  |                 | · [            |        |                |           | F      | \$60               |
| 177 | BK01       | Bike Lane Implementation                              |                                    |                                         | 23                | Arlington County                           | <b>V</b>        |                |        |                |           |        | \$120              |
| 178 | BK59       | CUSTIS TRAIL WESTOVER UNDERPASS @ I-66                |                                    |                                         |                   | Arlington County                           |                 |                |        |                |           |        | \$75               |
| 179 | BK93       | General Trail Improvements                            |                                    |                                         |                   | Arlington County                           |                 |                |        |                |           | F      | \$130              |
| 180 |            | George Washington Parkway Crossing                    | Mt. Vernon Bike/Ped Trail          | Potomac Yard North Tract                |                   | Arlington County,<br>Arlington Co. DPW     |                 |                | ] B    |                | <b>✓</b>  |        | \$1,000            |
| 181 |            | Hoffman - Boston Connector                            |                                    |                                         | 1                 | Arlington County                           |                 |                |        |                |           | Р      | \$400              |
| 182 | BK39       | I-395 Shirlington Underpass, Four Mile Run<br>Trail   | Shirlington Rd                     | West Glebe Rd                           | 1                 | Arlington County,<br>VDOT                  |                 | ] [            | ] B    |                |           | Р      | \$2,000            |
| 183 | BK29       | OLD DOM. DR Lee Hy TO Glebe Rd                        |                                    |                                         |                   | Arlington County,<br>VDOT                  |                 |                |        |                |           |        | \$1,000            |
| 184 |            | Old Jefferson Davis Highway/ Mount Vernon<br>Trail CO |                                    |                                         |                   | National Park Service                      |                 |                | ] B    |                |           | U      |                    |
| 185 |            | Pedestrian Improvements                               | in Ballston                        |                                         |                   | Arlington County,<br>Arlington Co. DPW     |                 |                |        |                |           |        | \$500              |
| 186 |            | Potomac Yard/Four Mile Run Trail                      |                                    |                                         |                   | Arlington County                           |                 |                | ]      |                |           |        | \$350              |
| 187 | BK91       | Route 110 Trail                                       | Memorial Dr                        | Washington Blvd                         | 1                 | Arlington County,<br>National Park Service |                 | · [            |        |                |           | Р      | \$500              |
| 188 |            | Sidewalk Projects                                     |                                    |                                         |                   | Arlington County,<br>VDOT                  |                 |                | •      |                |           | Р      | \$1,000            |
| 189 | 00062146   | VA 120 (Glebe Road)                                   | @ 27th Street                      | @ Ramp from I-395 to West<br>Glebe Road |                   | Arlington County,<br>Arlington County      |                 |                |        |                | <b>✓</b>  |        | \$100              |

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|     | Project ID | Project/Facility Name          | From               | То                  |   | Responsible<br>Agencies                | Bike Side<br>Lane Path walk | Spot/ In In<br>Area CLRP TIP | Status | Cost<br>(\$1,000s) |
|-----|------------|--------------------------------|--------------------|---------------------|---|----------------------------------------|-----------------------------|------------------------------|--------|--------------------|
| 190 |            | VA 120 (Glebe Road)            | N. Randolph Street | Fairfax Drive       |   | Arlington County,<br>Arlington Co. DPW |                             | I                            |        | \$1,000            |
| 191 |            | VA 123 Bike Path               | VA 120             | Fairfax County Line |   | Arlington County,<br>Arlington Co. DPW |                             |                              |        | \$100              |
| 192 | BK88       | Washington Blvd Trail Phase I  | Arlington Blvd     | Walter Reed         |   | Arlington County,<br>VDOT              |                             |                              | F      | \$350              |
| 193 | BK94       | Washington Blvd Trail Phase II | Walter Reed Dr     | S. Rolfe St.        | 1 | Arlington County                       |                             |                              | Р      | \$1,000            |
| 194 |            | WO&D Trail Widening            |                    |                     |   | Arlington County                       |                             |                              |        | \$60               |

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Cost Length Responsible Side Spot/ In In To Lane Path walk Area CLRP TIP Status (\$1,000s) Project ID Project/Facility Name From Agencies (Miles) National Park Service, Mount Vernon Trail Extension Theodore Roosevelt Island 9 195 Beltway U Fairfax County

|     | Project ID | Project/Facility Name                               | From                                         | То                             | Length<br>(Miles) | Responsible<br>Agencies     | Bike Side Spot/<br>Lane Path walk Area |          | In<br>TIP S | Status | Cost<br>(\$1,000s) |
|-----|------------|-----------------------------------------------------|----------------------------------------------|--------------------------------|-------------------|-----------------------------|----------------------------------------|----------|-------------|--------|--------------------|
| 196 |            | Braddock Road Metro Intersection Improvements       | Queen Street                                 | Braddock Road                  | 1                 | City of Alexandria          |                                        |          |             | Р      | \$200              |
| 197 | а          | Chambliss Stream Crossing                           | Chambliss Street Across Holmes<br>Run.       | N. Chambliss St                | 1                 | City of Alexandria          | B                                      | <b>✓</b> |             | U      | \$400              |
| 198 | d          | Duke Street Pedestrian Bridge                       | Cameron Station                              | Ben Brennman Park              | 1                 | City of Alexandria          | □ □ B                                  | <b>✓</b> |             | F      | \$500              |
| 199 | b          | Duke Street Pedestrian Improvements                 | Duke Street                                  | Carlyle Avenue                 | 1                 | City of Alexandria          | I                                      |          |             | F      | \$195              |
| 200 | е          | Eisenhower Multi-Use Trail                          | Cameron Run East                             | Telegraph Road                 | 2                 | City of Alexandria          |                                        | <b>✓</b> | <b>✓</b>    | F      | \$835              |
| 201 | f          | I-395 Tunnel Improvements                           | Holmes Run                                   | I-395                          |                   | City of Alexandria          |                                        |          | <b>✓</b>    | Р      | \$250              |
| 202 |            | King Street/Walter Reed/Beauregard<br>Interchange   | @King St./Beauregard St. and Walter Reed Dr. | 28th Street                    | 1                 | City of Alexandria,<br>VDOT |                                        |          |             | F      | \$2,000            |
| 203 | h          | Pedestrian Improvements on Mount Vernon             | Glebe Road                                   | Four Mile Run                  | 0                 | City of Alexandria          | S                                      |          |             | Р      | \$350              |
| 204 | g          | Potomac Yard Park                                   | Braddock Road Metro                          | Four Mile Run                  | 2                 | City of Alexandria,<br>VDOT |                                        |          |             | F      |                    |
| 205 | m          | Sidewalk Construction (FY07)                        | Citywide                                     | Citywide                       |                   | City of Alexandria,<br>VDOT |                                        | <b>✓</b> |             | U      | \$750              |
| 206 |            | Transit Facilities Pedestrian<br>Improvements(FY02) | citywide                                     | citywide                       | 6                 | City of Alexandria,<br>VDOT |                                        |          | <b>✓</b>    | F      | \$938              |
| 207 | i          | Woodrow Wilson Memorial Bridge - Trail              | Prince George's County, MD                   | Mount Vernon Trail, Alexandria | 6                 | City of Alexandria          | <b>✓</b> ✓ B                           | <b>✓</b> | <b>✓</b>    | UC     | 24,400             |

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Key to Codes

| Project IE   | Project/Facility Name            | From                                   | То                                                   | Length<br>(Miles) | Responsible<br>Agencies                 | Bike Side<br>Lane Path walk | Spot/ In In<br>Area CLRP TIP Sta | Cost<br><sub>stus</sub> (\$1,000s) |
|--------------|----------------------------------|----------------------------------------|------------------------------------------------------|-------------------|-----------------------------------------|-----------------------------|----------------------------------|------------------------------------|
| 208 00052472 | Accotink Gateway Connector Trail | King Arthur Drive                      | Wakefield Park                                       | 1                 | VDOT , Fairfax<br>County                |                             | <b>V</b>                         | F \$2,619                          |
| 209 XL       | Accotink Stream Valley-Dam       | Old Keene Mill Road                    |                                                      | 0                 | Fairfax County Park<br>Authority        |                             | <b>V V</b>                       |                                    |
| 210 XL       | Arlington Boulevard              | Peyton Randolph Drive                  |                                                      | 0                 | Fairfax County                          |                             | В                                |                                    |
| 211 XL       | Arlington Boulevard              | Patrick Henry Drive                    |                                                      | 0                 | Fairfax County                          |                             | I 🗸 🗸                            |                                    |
| 212 XL       | Arlington Boulevard              | Graham Road                            |                                                      | 0                 | Fairfax County                          |                             | I                                |                                    |
| 213 58601    | Arlington Boulevard (US 50)      | Jaguar Trail                           | Seven Corners                                        | 0                 | VDOT                                    |                             | В 🗸 🗌                            | P \$1,797                          |
| 214 XL       | Braddock Road                    | Guinea Road                            |                                                      | 0                 | Fairfax County                          |                             | I                                |                                    |
| 215 XL       | Braddock Road                    | Rolling Road                           |                                                      | 0                 | Fairfax County                          |                             | I                                |                                    |
| 216 XL       | Braddock Road                    | Wakefield Chapel Road                  |                                                      | 0                 | Fairfax County                          |                             | I                                |                                    |
| 217 XL       | Burke Center Parkway             | Roberts Road                           |                                                      | 0                 | Fairfax County                          |                             | I 🗌                              |                                    |
| 218 XL       | Centreville Road                 | Compton Road                           |                                                      | 0                 | Fairfax County Park<br>Authority        |                             | I                                |                                    |
| 219 XL       | Centreville Road                 | Green Trails Boulevard                 |                                                      | 0                 | Fairfax County                          |                             | I 🗌                              |                                    |
| 220 XL       | Centreville Road                 | New Braddock Road                      |                                                      | 0                 | Fairfax County                          |                             | I 🗌                              |                                    |
| 221 XL       | Centreville Road                 | Sunrise Valley Drive                   |                                                      | 0                 | Fairfax County                          |                             | I                                |                                    |
| 222 XL       | Chain Bridge Road                | International Drive                    |                                                      | 0                 | Fairfax County                          |                             | I                                |                                    |
| 223 UPC5010  | Columbia Pike                    | Powell Lane                            | Homes Run                                            | 0                 | Fairfax County, VDO                     |                             |                                  | \$1,106                            |
| 224 00063578 | Cross County Trail               | Great Falls Park to Alban Road         | Lake Accotink Dam to Hunter<br>Village Drive segment | 5                 | VDOT , Fairfax<br>County Park Authority |                             | <b>V</b>                         | F \$1,060                          |
| 225 XL       | Danbury Forest                   | Lake Accotink Park                     |                                                      | 0                 | Fairfax County Park<br>Authority        |                             | В                                |                                    |
| 226 XL       | Dolley Madison Boulevard         | Great Falls Street/Lewinsville<br>Road |                                                      | 0                 | Fairfax County                          |                             | I 🗌 🖺                            |                                    |

|     | Project ID | Project/Facility Name             | From                                         | То                | Length<br>(Miles) | Responsible<br>Agencies                | Bike<br>Lane Path | Spot/<br>Area ( | In<br>CLRP | In<br>TIP S | Status | Cost<br>(\$1,000s) |
|-----|------------|-----------------------------------|----------------------------------------------|-------------------|-------------------|----------------------------------------|-------------------|-----------------|------------|-------------|--------|--------------------|
| 227 | XL         | Fairfax County Parkway            | Hooes Road/Seabrook Lane                     |                   | 0                 | Fairfax County                         |                   | I               |            |             |        |                    |
| 228 | XL         | Fairfax County Parkway            | Old Keene Mill Road                          |                   | 0                 | Fairfax County                         |                   | I               |            |             |        |                    |
| 229 | 57167      | Fairfax County Parkway            | 123                                          | 7                 | 9                 | VDOT , Fairfax<br>County               |                   |                 | <b>✓</b>   |             | Р      |                    |
| 230 | XL         | Gallows Road                      | Annandale Road/Hummer Road                   |                   | 0                 | Fairfax County                         |                   | I               |            |             |        |                    |
| 231 | XL         | Georgetown Pike                   | Applewood Lane to Ad Hoc Road                |                   | 0                 | Fairfax County                         |                   |                 | <b>✓</b>   | <b>✓</b>    |        |                    |
| 232 | XL         | Georgetown Pike                   | Innsbruck Road                               | River Bend Road   | 0                 | Fairfax County                         |                   |                 |            |             |        |                    |
| 233 | XL         | Georgetown Pike                   | Applewood Lane                               | Seneca Road       | 0                 | Fairfax County                         |                   |                 |            |             |        |                    |
| 234 | 60337      | Georgetown Pike Multi-Use Path    | I-495                                        | Route 7           | 2                 | VDOT                                   |                   |                 | <b>✓</b>   | <b>✓</b>    | Р      | \$845              |
| 235 |            | Great Falls Street Trail          | Crutchfeild Street                           | Hutchinson Street |                   | Fairfax County, VDOT                   |                   |                 |            |             | UC     | \$596              |
| 236 | XL         | Grist Mill Park                   |                                              |                   | 0                 | Fairfax County                         |                   |                 |            |             |        |                    |
| 237 | XL         | Holmes Run Stream Valley          |                                              |                   | 0                 | Fairfax County Park<br>Authority       |                   | В               |            |             |        |                    |
| 238 | XL         | Hunter Mill Road                  | Sunrise Valley Drive                         |                   | 0                 | Fairfax County                         |                   | I               |            |             |        |                    |
| 239 | 70736      | Huntington Metro Station Vicinity | Pedestrian Improvements                      |                   |                   | VDOT , Coalition for<br>Smarter Growth |                   | S               | ✓          |             | Р      | \$174              |
| 240 | XL         | Laurel Hill Greenway              |                                              |                   | 1                 | Fairfax County Park<br>Authority       |                   |                 |            |             |        |                    |
| 241 | XL         | Lee Highway                       | Gallows Road                                 |                   | 0                 | Fairfax County Park<br>Authority       |                   | I               |            |             |        |                    |
| 242 | XL         | Lee Highway                       | Shirley Gate Road to Old<br>Centreville Road |                   | 0                 | Fairfax County                         |                   |                 |            |             |        |                    |
| 243 | XL         | Lee Highway                       | Monument Drive                               |                   | 0                 | Fairfax County                         |                   | I               |            |             |        |                    |
| 244 | XL         | Lee-Jackson Highway               | Majestic Lane                                |                   | 0                 | Fairfax County                         |                   | I               |            |             |        |                    |
| 245 | XL         | Lee-Jackson Highway               | Alder Woods Lane                             |                   | 0                 | Fairfax County                         |                   | I               |            |             |        |                    |
|     |            |                                   |                                              |                   |                   |                                        |                   |                 |            |             |        |                    |

|     | Project ID | Project/Facility Name | From                                        | То         | Length<br>(Miles) | Responsible<br>Agencies  | Bike Side Spot/ In In Lane Path walk Area CLRP TIP Status (\$1,000s) |
|-----|------------|-----------------------|---------------------------------------------|------------|-------------------|--------------------------|----------------------------------------------------------------------|
| 246 | XL         | Lee-Jackson Highway   | Stringfellow Road                           |            | 0                 | Fairfax County           |                                                                      |
| 247 | XL         | Leesburg Pike         | Dranesville Road                            |            | 0                 | Fairfax County           |                                                                      |
| 248 | XL         | Leesburg Pike         | Glen Carlyn Road                            |            | 0                 | Fairfax County           |                                                                      |
| 249 | XL         | Leesburg Pike         | Magarity Road                               |            | 0                 | Fairfax County           |                                                                      |
| 250 | XL         | Leesburg Pike         | Patrick Henry Drive                         |            | 0                 | Fairfax County           |                                                                      |
| 251 | XL         | Leesburg Pike         | Patterson Road                              |            | 0                 | Fairfax County           |                                                                      |
| 252 | XL         | Leesburg Pike         | South Jefferson Street                      |            | 0                 | Fairfax County           |                                                                      |
| 253 | XL         | Leesburg Pike         | Tyco Road/Westwood Center<br>Drive          |            | 0                 | Fairfax County           |                                                                      |
| 254 | XL         | Leesburg Pike         | Tysons Square Center Entrance               |            | 0                 | Fairfax County           |                                                                      |
| 255 | XL         | Leesburg Pike         |                                             |            | 3                 | Fairfax County           |                                                                      |
| 256 | XL         | Leesburg Pike         | Baron Cameron<br>Avenue/Springvale Road     |            | 0                 | Fairfax County           |                                                                      |
| 257 | XL         | Lewinsville Road      | Balls Hill Road                             |            | 0                 | Fairfax County           |                                                                      |
| 258 | XL         | Little River Turnpike | Braddock Road                               |            | 0                 | Fairfax County           |                                                                      |
| 259 | XL         | Little River Turnpike | Backlick Road                               |            | 0                 | Fairfax County           |                                                                      |
| 260 | 63717      | Little River Turnpike | Oasis Drive                                 | Beauregard | 0                 | VDOT , Fairfax<br>County | ☐ ☐ I ☑ ☐ F \$1,318                                                  |
| 261 | XL         | Loisdale Road         | Loisdale Court/Springfield Mall<br>Entrance |            | 0                 | Fairfax County           |                                                                      |
| 262 | 98         | Lorton Road Widening  | US 1                                        | Route 748  | 1                 | VDOT                     | <b>✓</b> ✓ □ UC                                                      |
| 263 | XL         | Mason Neck Trail      | Richmond Highway to Pohick<br>Bay Park      |            | 3                 | Fairfax County           |                                                                      |
| 264 | XL         | North Kings Highway   | Huntington Metro                            |            | 0                 | Fairfax County           |                                                                      |

|     | Project ID | Project/Facility Name                              | From                                  | То             | Length<br>(Miles) | Responsible<br>Agencies  | Bike<br>Lane Pa | Side<br>th walk | Spot/<br>Area | In<br>CLRP | In<br>TIP State | Cost<br>us (\$1,000s) |
|-----|------------|----------------------------------------------------|---------------------------------------|----------------|-------------------|--------------------------|-----------------|-----------------|---------------|------------|-----------------|-----------------------|
| 265 | 00063577   | NoVi (Northern Vienna) Trail                       | Phase I                               |                | 1                 | VDOT , Fairfax<br>County |                 |                 |               | <b>✓</b>   | P               | \$303                 |
| 266 | XL         | Old Keene Mill Road                                | Shiplett Boulevard                    |                | 0                 | Fairfax County           |                 |                 | 1             |            |                 |                       |
| 267 | XL         | Old Keene Mill Road                                | Sydenstricker Road                    |                | 0                 | Fairfax County           |                 |                 | I             |            |                 |                       |
| 268 | T1116      | Pedestrian Improvements, Bus Stop Access Improvmen | Bike Projects                         | Fairfax County |                   | Fairfax County, VDO1     |                 |                 |               |            | <b>✓</b>        | \$0                   |
| 269 | XL         | Reston Parkway                                     | Sunrise Valley Drive                  |                | 0                 | Fairfax County           |                 |                 | I             |            |                 |                       |
| 270 | XL         | Richmond Highway                                   | Napper Road                           |                | 0                 | Fairfax County           |                 |                 |               |            |                 |                       |
| 271 | XL         | Richmond Highway                                   | Kings Highway                         |                | 0                 | Fairfax County           |                 |                 | I             |            |                 |                       |
| 272 | XL         | Richmond Highway                                   | Kings Village Drive                   |                | 0                 | Fairfax County           |                 |                 |               |            |                 |                       |
| 273 | XL         | Richmond Highway                                   | Dart Drive                            |                | 0                 | Fairfax County           |                 |                 |               |            |                 |                       |
| 274 | XL         | Richmond Highway                                   | Sacramento Drive                      |                | 0                 | Fairfax County           |                 |                 | I             |            |                 |                       |
| 275 | XL         | Richmond Highway                                   | Buckman Road (south)                  |                | 0                 | Fairfax County           |                 |                 |               |            |                 |                       |
| 276 | XL         | Richmond Highway                                   | Janna Lee Avenue                      |                | 0                 | Fairfax County           |                 |                 |               |            |                 |                       |
| 277 | XL         | Richmond Highway                                   | Woodlawn Court to Sacramento<br>Drive |                | 0                 | Fairfax County           |                 |                 |               |            |                 |                       |
| 278 | XL         | Richmond Highway                                   | Belford Drive (south)                 |                | 0                 | Fairfax County           |                 |                 | I             |            |                 |                       |
| 279 | XL         | Richmond Highway                                   | Buckman Road (north)                  |                | 0                 | Fairfax County           |                 |                 |               |            |                 |                       |
| 280 | XL         | Richmond Highway                                   | Kings Highway                         |                | 0                 | Fairfax County           |                 |                 |               |            |                 |                       |
| 281 | XL         | Richmond Highway                                   | Arlington Drive                       |                | 0                 | Fairfax County           |                 |                 | I             |            |                 |                       |
| 282 | XL         | Richmond Highway                                   | Mohawk Lane                           |                | 0                 | Fairfax County           |                 |                 | I             |            |                 |                       |
| 283 | XL         | Richmond Highway                                   | Backlick Road                         |                | 0                 | Fairfax County           |                 |                 | I             |            |                 |                       |
| 284 | XL         | Richmond Highway                                   | Sherwood Hall Lane                    |                | 0                 | Fairfax County           |                 |                 |               |            |                 |                       |
| 285 | XL         | Richmond Highway                                   | Southgate Drive                       |                | 0                 | Fairfax County           |                 |                 | I             |            |                 |                       |

|     | Project ID | Project/Facility Name                           | From                                            | То                       | Length<br>(Miles) | Responsible<br>Agencies | Bike<br>Lane | Sid<br>Path wa |   | ot/ In<br>ea CLRF | In<br>P TIP Sta | Cos<br>tus (\$1,00 |   |
|-----|------------|-------------------------------------------------|-------------------------------------------------|--------------------------|-------------------|-------------------------|--------------|----------------|---|-------------------|-----------------|--------------------|---|
| 286 | XL         | Richmond Highway                                | Frye Road to Sky View Lane                      |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 287 | XL         | Richmond Highway                                | Lockheed Boulevard                              |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 288 | XL         | Richmond Highway                                | Fordson Road                                    |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 289 | XL         | Richmond Highway                                | Old Mill Road/Mt. Vernon<br>Memorial Highway    |                          | 0                 | Fairfax County          |              |                |   |                   | F               | :                  |   |
| 290 | XL         | Richmond Highway                                | Sacramento Drive                                | Old Mill Rd.             | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 291 | XL         | Richmond Highway                                | Popkins Lane                                    |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 292 | XL         | Richmond Highway                                | Lukens Lane                                     |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 293 | XL         | Richmond Highway                                | Highland Lane to Woodlawn<br>Court              |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 294 | XL         | Richmond Highway                                | Shields Avenue to Quander Road                  |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 295 | XL         | Richmond Highway                                | Ladson Lane                                     |                          | 0                 | Fairfax County          |              |                | ] |                   |                 |                    |   |
| 296 | XL         | Richmond Highway                                | Quander Road                                    |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 297 | XL         | Richmond Highway                                | Frye Road                                       |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 298 |            | Richmond Highway (US 1) Ped & Bike Improvements | VA 619 (Old Mill Rd)                            | VA 1332 (Huntingdon Ave) | 7                 | Fairfax County, VDO     | Γ            |                |   | <b>✓</b>          | <b>✓</b> F      | \$8,000            | ] |
| 299 | XL         | Richmond Highway Bus Stop Walkways              |                                                 |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 300 | 52327      | Route 7 Widening                                | Rolling Holly Drive                             | Tyco Road                | 1                 | VDOT                    |              | <b>✓</b>       |   | <b>✓</b>          | F               | )                  |   |
| 301 | XL         | Stringfellow Road                               | Lee-Jackson Highway to I-66                     |                          | 4                 | Fairfax County          |              | <b>✓</b>       |   |                   |                 |                    |   |
| 302 | XL         | Sunset Hills Road                               | Plaza America                                   |                          | 0                 | Fairfax County          |              |                | S | 5                 |                 |                    |   |
| 303 | XL         | Sunset Hills Road                               | Dressage Drive to Lake Fairfax<br>Business Park |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 304 | XL         | Sunset Hills Road                               | Plaza America                                   |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |
| 305 | XL         | Sunset Hills Road                               | Reston Parkway to Wiehle<br>Avenue              |                          | 0                 | Fairfax County          |              |                |   |                   |                 |                    |   |

|     | Project ID | Project/Facility Name                       | From                                             | То                    | Length<br>(Miles) | Responsible<br>Agencies  | Bil<br>La |          | Side<br>th walk | Spot<br>Area | t/ In<br>a CLRF | In<br>P TIP | • Status | Cost<br>(\$1,000s) |
|-----|------------|---------------------------------------------|--------------------------------------------------|-----------------------|-------------------|--------------------------|-----------|----------|-----------------|--------------|-----------------|-------------|----------|--------------------|
| 306 | XL         | Sunset Hills Road                           | Fairfax County Parkway to<br>Reston Parkway      |                       | 0                 | Fairfax County           |           |          |                 | ]            |                 |             |          |                    |
| 307 | 70632      | Trail and Pedestrian Improvements           | Fairfax County wide                              |                       |                   | VDOT , Fairfax<br>County |           |          |                 | ] S          |                 |             | F        | \$1,600            |
| 308 | 72295      | Trap Road                                   | Wolf Trap Farm Park                              | Beulah Road           | 1                 | VDOT                     |           |          |                 | В            | <b>✓</b>        |             | F        | \$2,242            |
| 309 | 70602      | Tysons Corner                               | Pedestrian Improvements<br>Identified by         | the HJR 276 Committee |                   | VDOT , Fairfax<br>County |           |          |                 | ] S          | <b>✓</b>        |             | F        | \$300              |
| 310 | XL         | Tysons Priority Access Improvement Projects |                                                  |                       | 0                 | Fairfax County           |           |          |                 | ]            |                 |             |          |                    |
| 311 | 11395      | US 29 Widening                              | WEST MERRILEE DRIVE                              | ROUTE I-495           | 1                 | VDOT , Fairfax           |           | <b>~</b> |                 | ]            | <b>✓</b>        |             | F        |                    |
| 312 | 56780      | US 50 install median barrier & fence        | VA 7                                             | Patrick Henry Drive   | 0                 | VDOT , Fairfax<br>County |           |          |                 | ] S          | <b>✓</b>        |             | F        | \$601              |
| 313 | 56866      | US 50 Pedestrian Bridge                     | Vicinity of the Seven Corners<br>Shopping Center |                       |                   | VDOT , Fairfax<br>County |           |          |                 | ] B          | <b>✓</b>        |             | F        | \$5,000            |
| 314 | 00052041   | VA 193 - Georgetown Pike Trail              | Innsbruck Road                                   | River Bend Road       | 4                 | VDOT , Fairfax<br>County |           |          |                 | ]            | <b>✓</b>        |             | UC       | \$1,468            |
| 315 | XL         | Walker Road                                 | Arnon Chapel Road to Verizon property            |                       | 0                 | Fairfax County           |           |          |                 | ]            |                 |             |          |                    |
| 316 | XL         | Walker Road                                 | Great Falls School                               | Beach Mill Road       | 0                 | Fairfax County           |           |          |                 | ]            |                 |             |          |                    |
| 317 | 00052042   | Walker Road Trail                           | Columbine Street                                 | Colvin Run Road       | 2                 | VDOT , Fairfax<br>County |           |          |                 | ]            | <b>✓</b>        |             | UC       | \$447              |
| 318 | 16504      | West Ox Road (route 608)                    | Ox Trail Road                                    | Lawyers Road          | 2                 | VDOT                     |           |          |                 | ]            | <b>✓</b>        |             | UC       |                    |

Cost Length Responsible Side Spot/ In In To From Lane Path walk Area CLRP TIP Status (\$1,000s) Project ID Project/Facility Name (Miles) Agencies 319 00052449 Sugarland Run Trail **W&OD Trail** Fairfax County's Sugarland Run 1 VDOT, Town of **✓** \$931 В Trail Herndon

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|     | Project ID | Project/Facility Name                                 | From                                  | То                             | Length<br>(Miles) | Responsible<br>Agencies                  | Bike Side Spot<br>Lane Path walk Area | / In In<br>a CLRP TIP Status | Cost<br>(\$1,000s) |
|-----|------------|-------------------------------------------------------|---------------------------------------|--------------------------------|-------------------|------------------------------------------|---------------------------------------|------------------------------|--------------------|
| 320 | 18992      | BATTLEFIELD PARKWAY - 4 LANES ON 6<br>LANE R/W        | KINCAID BOULEVARD                     | ROUTE 7                        | 1                 | VDOT                                     |                                       | <b>✓</b> □ P                 |                    |
| 321 | 58922      | Loudoun Cnty Pkwy WIDEN UNPVD 2 LN TO<br>4 LNS DIV ON | 1.9 MILES SOUTH ROUTE                 | 0.5 MILE SOUTH ROUTE 7         | 1                 | VDOT                                     |                                       | <b>₽</b> □ P                 |                    |
| 322 | 13096      | Old Ox Road Widening (Rt. 606)                        | Mills Road (Rt. 621)                  | Dulles Greenway (Rt. 267)      | 5                 | VDOT                                     |                                       | UC UC                        |                    |
| 323 | 70760      | PACIFIC BOULEVARD (MPO PROJECT                        | AUTOWORLD DRIVE<br>(NORTHERN TERMINUS | SEVERN WAY                     | 1                 | VDOT                                     |                                       | <b>✓</b> □ P                 |                    |
| 324 | 00063583   | VA 846 (Sterling Boulevard Landscaping)               | VA 28                                 | US 7                           |                   | VDOT , Loudoun<br>County                 | S                                     | <b>✓</b> □ F                 | \$53               |
| 325 | 00056454   | W&OD Trail Extension                                  | W&OD Trail End (Purcellville)         | Round Hill                     | 3                 | VDOT , Loudoun<br>County                 |                                       | <b>✓</b> □ P                 | \$1,700            |
| 326 |            | W&OD/White's Ferry Connection to C&O                  | W&OD                                  | Potomac River at White's Ferry | 3                 | VDOT, Northern<br>Virginia Regional Park | <b>✓</b> □ □                          | U                            |                    |

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Cost Length Responsible Bike Side Spot/ In In To Lane Path walk Area CLRP TIP Status (\$1,000s) Project ID Project/Facility Name From (Miles) Agencies 327 68757 US 50 widening Pleasant valley Drive Lee Road **VDOT ✓** Ρ 1

Cost Length Responsible Side Spot/ In In To Lane Path walk Area CLRP TIP Status (\$1,000s) Project ID Project/Facility Name From Agencies (Miles) Telegraph Road Woodrow Wilson Bridge Project Md State Line 2 **VDOT ✓** □ UC 328 В

10-Jul-07

|     | Project ID | Project/Facility Name              | From         | То           |   | Responsible<br>Agencies  | Bike S<br>Lane Path w | ide Spo<br>alk Are | ot/ In<br>ea CLRP | In<br>TIP Stat | Cost<br><sub>us</sub> (\$1,000s) |
|-----|------------|------------------------------------|--------------|--------------|---|--------------------------|-----------------------|--------------------|-------------------|----------------|----------------------------------|
| 329 | 00016090   | Accotink Gateway Connector Trail   | Daniel's Run | Pickett Road | 1 | VDOT, City of Fairfax    |                       |                    | <b>✓</b>          | U(             | \$1,762                          |
| 330 | 16632      | US 29 (Lee Highway) Fairfax Circle | @ US 50      |              |   | VDOT, City of<br>Fairfax |                       | В                  | <b>V</b>          | F              |                                  |

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Cost Length Responsible Bike Side Spot/ In In To Lane Path walk Area CLRP TIP Status (\$1,000s) From (Miles) Agencies Project ID Project/Facility Name 331 00056456 Manassas Drive Sidewalk Andrew Drive **Euclid Avenue** VDOT, City of S 🗸 🗌 UC \$195 Manassas Park

10-Jul-07

Cost Length Responsible Bike Side Spot/ In In Lane Path walk Area CLRP TIP Status (\$1,000s) To Project ID Project/Facility Name From (Miles) Agencies VDOT 332 00018782 Old Town Manassas City Square, Walkways, Phase I and Phase II S 🗸 🗌 UC \$557 & Crosswa

10-Jul-07 Page 36 City of Manassas, VA

| Proje     | ct ID Project/Facility Name | From          | То | Length Responsible<br>(Miles) Agencies | Bike Side Spot/ In In Lane Path walk Area CLRP TIP Status (\$1,000s) |
|-----------|-----------------------------|---------------|----|----------------------------------------|----------------------------------------------------------------------|
| 333       | Interstate Bicycle Route 1  |               |    | VDOT                                   |                                                                      |
| 334 70661 | + 1 NOVA signal Program     | District Wide |    | VDOT                                   | B P \$9,000                                                          |

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|     | Project ID Project/Facility Name | From       | То                    | Length<br>(Miles) | Responsible<br>Agencies | Bike<br>Lane Path | pot/ In In<br>Area CLRP TIP Sta | Cost<br>atus (\$1,000s) |
|-----|----------------------------------|------------|-----------------------|-------------------|-------------------------|-------------------|---------------------------------|-------------------------|
| 335 | 13532 + 1 123 Widnening          | Davis Road | South Burke Lake Road | 9                 | VDOT                    |                   |                                 | JC \$6.181              |

|     | Project ID | Project/Facility Name              | From                    | То                         | Length<br>(Miles) | Responsible<br>Agencies | Bike<br>Lane | Path     | Spot/<br>Area |          | Status | (\$1,000s) |
|-----|------------|------------------------------------|-------------------------|----------------------------|-------------------|-------------------------|--------------|----------|---------------|----------|--------|------------|
| 336 | 72726      | 234 Off-Road Multi Use Trail       | Lake Jackson Drive      | PW Parkway                 | 1                 | VDOT                    |              | <b>✓</b> |               | <b>~</b> | UC     | \$649      |
| 337 | 71721      | Bus 234 Add Signalized Crosswalks  | All Major Intersections | All Major Intersections    |                   | VDOT                    |              |          | I             | <b>✓</b> | F      | \$650      |
| 338 | 71758      | Bus 234 Sidewalk/Ramps Improvments | Balls Ford Road         | Godwin Drive               |                   | VDOT                    |              |          | ı             | <b>✓</b> | F      | \$515      |
| 339 | 14932      | Linton Hall Road Widening          | Glenkirk Road           | Devlin Road                | 3                 | VDOT                    |              | <b>✓</b> |               | <b>✓</b> | UC     |            |
| 340 | 17984 + 5  | Route 28 Trail Extension           | Fauquier Co. Line       | Vint Hill Road             | 7                 | VDOT                    |              | <b>✓</b> |               | <b>✓</b> | Р      | \$3,000    |
| 341 | 00050009   | VA 234 Bike Trail                  | US 1 to I-95 &          | Montclair to vic. Manassas | 9                 | VDOT                    |              | <b>V</b> |               | <b>~</b> | Р      | \$1,161    |

Key to Codes

|     | Project ID | Project/Facility Name                              | From        | То         | Length<br>(Miles) | Responsible<br>Agencies | Bike<br>Lane Path | Side S<br>walk | Spot/ In<br>Area CLR | In<br>P TIP | Status | (\$1,000s) |  |
|-----|------------|----------------------------------------------------|-------------|------------|-------------------|-------------------------|-------------------|----------------|----------------------|-------------|--------|------------|--|
| 342 | 77170      | Multiple Sidewalk Enhancements                     | Purceville  |            |                   | VDOT                    |                   |                | S _                  | . 🗆         | F      | \$500      |  |
| 343 | 71734      | PURCELLVILLE - BICYCLE ACCESS TO HIGH SCHOOL & W&O | Main Street | W&OD Trail | 1                 | VDOT                    |                   |                |                      |             | F      | \$460      |  |

10-Jul-07 Purceville, VA Page 40

Cost Length Responsible Bike Side Spot/ In In To Lane Path walk Area CLRP TIP Status (\$1,000s) Project ID Project/Facility Name From (Miles) Agencies Town of Clifton - Phase II VDOT 344 00016636 Pedestrian/Bicycle Plaza & Pathways S 🗸 🗌 UC \$70

10-Jul-07 Town of Clifton, VA Page 41

Cost Length Responsible Bike Side Spot/ In In To Lane Path walk Area CLRP TIP Status (\$1,000s) From Project ID Project/Facility Name (Miles) Agencies Town of Hamilton 345 00063581 Main Street VDOT, Town of S 🗸 🗌 \$47 (Improvements) Hamilton

10-Jul-07 Page 42 Town of Hamilton, VA

Cost Length Responsible Bike Side Spot/ In In To Lane Path walk Area CLRP TIP Status (\$1,000s) Project ID Project/Facility Name From (Miles) Agencies On 704 VDOT 346 70587 PEDESTRIAN STUDY & IMPROVEMENTS Town of Hillsboro S F \$2,482

10-Jul-07 **Town of Hillsboro**, **VA** Page 43

Cost Length Responsible Bike Side Spot/ In In Lane Path walk Area CLRP TIP Status (\$1,000s) To Project ID Project/Facility Name From Agencies (Miles) 347 00017601 Ped & Bike Path Network Town of Lovettsville VDOT, Town of \$450 6 S Lovettsville

10-Jul-07 **Town of Lovettsville**, **VA** Page 44

Cost Length Responsible Bike Side Spot/ In In To Lane Path walk Area CLRP TIP Status (\$1,000s) From Project ID Project/Facility Name (Miles) Agencies in the Town of Occoquan VDOT, Town of 348 00056458 Riverfront Boardwalk on the Occoquan River S UC \$546 Occoquan

10-Jul-07 **Town of Occoquan**, **VA** Page 45

|     | Project ID | Project/Facility Name           | From                 | То            | <br>Responsible<br>Agencies | Bike<br>Lane Pa | Side<br>ath walk | Spot/<br>Area | In<br>CLRP | In<br>TIP Status | (\$1,000s) |
|-----|------------|---------------------------------|----------------------|---------------|-----------------------------|-----------------|------------------|---------------|------------|------------------|------------|
| 349 | 00060040   | Potomac Avenue                  | CSX Railroad         | Potomac River | VDOT, Town of Quantico      |                 |                  | S             | ✓          | P                | \$871      |
| 350 | 00017600   | Potomac Transportation Facility | AMTRAK / VRE Station | Potomac River | VDOT , Town of<br>Ouantico  |                 |                  | S             |            | ☐ UC             | \$512      |

10-Jul-07 Town of Quantico, VA Page 46

|     | Project ID Project/Facility Name | From       | То          | Responsible<br>Agencies        | Bike<br>Lane Path | Side S<br>walk | Spot/ I<br>Area Cl | In In<br>LRP TI | P Status | Cost<br>(\$1,000s) |
|-----|----------------------------------|------------|-------------|--------------------------------|-------------------|----------------|--------------------|-----------------|----------|--------------------|
| 351 | Boundary Channel Bridge Trails   |            |             | National Park Service          |                   |                | S [                |                 | ]        |                    |
| 352 | Rosslyn Circle Crossing          | N. Lynn St | Ft. Myer Dr | Arlington County,<br>VDOT      |                   |                | В [                |                 | ] F      | \$1,000            |
| 353 | Theodore Roosevelt Bridge        |            |             | DDOT, National Park<br>Service |                   |                |                    |                 | ]        |                    |

# **Appendix B**

#### Data Dictionary and Sample Database Entry Form

For the Regional Database of Bicycle and Pedestrian Projects in the Long-Range Bicycle and Pedestrian Plan for the National Capital Region

| FIELD                    | EXPLANATION                                                               |
|--------------------------|---------------------------------------------------------------------------|
| COG Project ID           | COG's internal identifying number for the project in this                 |
| _                        | database                                                                  |
| Agency Project ID        | The responsible agency's project identifying number                       |
| Project Name             | Descriptive name provided by the sponsoring agency                        |
| From                     | Project Limits                                                            |
| То                       | Project Limits                                                            |
| Length of Project        | Length of the project from start to finish. Example: if a                 |
|                          | project consists of four miles of road with a continuous bike             |
|                          | lane and sidewalk, the project length is four miles.                      |
| Jurisdiction(s)          | Jurisdiction(s) in which the project is located                           |
| State                    | State or States in which the project is located.                          |
| Agency                   | Lead agency that is responsible for implementing the project              |
| Secondary Agency         | Other agency involved in the project                                      |
| Cost                     | In thousands of dollars. As many projects in the plan may not             |
|                          | be built for many years, and have not been fully scoped, this             |
|                          | can be a very rough estimate. If a project is part of a larger            |
|                          | project the total project cost is <i>not</i> listed, only that portion of |
|                          | the cost which is attributable to the bicycle or pedestrian               |
|                          | facility. Use of a rule of thumb for such estimates was                   |
|                          | acceptable, i.e. 3% of total project cost. Many projects do not           |
|                          | have a cost estimate available.                                           |
| URL for more project     | If the project has a web site, or if the agency has more detail           |
| information              | on its web site, the URL may be listed.                                   |
| Project Manager Name     | If the project has a project manager, his or her name may be              |
|                          | listed.                                                                   |
| Project Manager's Phone  |                                                                           |
| Project Manager's E-mail |                                                                           |
| Project is in the CLRP   | Project is in the 2005 Financially Constrained Long-Range                 |
|                          | Transportation Plan for the National Capital Region, and                  |
|                          | therefore is officially considered to have funding available to           |
|                          | support project completion.                                               |
| Project is in the TIP    | Project is in the most recent National Capital Region                     |
|                          | Transportation Improvement Program with specific funding                  |
|                          | amounts identified for program completion.                                |

| Project is Part of a Larger | Is the project part of a larger project, i.e. a high | way, bridge, or                              |  |  |  |
|-----------------------------|------------------------------------------------------|----------------------------------------------|--|--|--|
| Project                     | transit project?                                     | <b>,</b> , , , , , , , , , , , , , , , , , , |  |  |  |
| Length of Bike Lane         | Bike lanes are striped lanes at least 4' wide in t   | the public right-                            |  |  |  |
|                             | of-way, marked for the exclusive use of bicycl       |                                              |  |  |  |
|                             | lane is found on both sides of the street for fou    | r miles, it                                  |  |  |  |
|                             | should be reported as four miles of bike lane, n     | ot eight.                                    |  |  |  |
| Length of Multi-Use Path    | A paved or hard-surface path separated from tr       |                                              |  |  |  |
|                             | designated for bicycles and other non-motorize       |                                              |  |  |  |
|                             | Should be at least 8' wide.                          |                                              |  |  |  |
| Length of Sidewalk          | Sidewalks are usually concrete, less than 8' wi      | de, and have                                 |  |  |  |
|                             | other design characteristics (street furniture, lin  | nited sight-                                 |  |  |  |
|                             | lines) that render them unsuitable for all but the   |                                              |  |  |  |
|                             | bicyclists.                                          |                                              |  |  |  |
| Type of Spot/Area           | For non-linear projects. The pull-down menu          | gives the                                    |  |  |  |
| Improvement                 | following options:                                   |                                              |  |  |  |
|                             | Type of Improvement                                  | Code Letter                                  |  |  |  |
|                             | Pedestrian Intersection Improvement                  | I                                            |  |  |  |
|                             | 2. Pedestrian/Bicycle Bridge or Tunnel               | В                                            |  |  |  |
|                             | 3. Traffic Calming                                   | TC                                           |  |  |  |
|                             | 4. Streetscape/Pedestrian Improvements               | S                                            |  |  |  |
|                             | 5. Bicycle Parking                                   | P                                            |  |  |  |
|                             | 6. Bicycle Route Marking                             | BR                                           |  |  |  |
|                             | 7. Other                                             | O                                            |  |  |  |
| Path Alignment              | Is the multi-use path along a road, or is it on its  | s own right-of-                              |  |  |  |
|                             | way? This field is meant to distinguish betwee       | -                                            |  |  |  |
|                             | which are built adjacent to a road and cross nur     | merous drive-                                |  |  |  |
|                             | ways and intersections, and a multi-use path or      | _                                            |  |  |  |
|                             | of way, such as an old railroad, canal tow-path      |                                              |  |  |  |
|                             | valley. Paths built along limited-access highw       | -                                            |  |  |  |
|                             | parkways such at the Mount Vernon Trail show         |                                              |  |  |  |
|                             | being built on an independent route, since they      |                                              |  |  |  |
|                             | intersection or driveway conflicts, and are set b    |                                              |  |  |  |
|                             | distance from the roadway for most of their ler      |                                              |  |  |  |
| Status                      | The pull-down menu offers the following optic        |                                              |  |  |  |
|                             | 4 5 1 5 1 1                                          | Code Letter                                  |  |  |  |
|                             | 1. Fully Funded <sup>1</sup>                         | F                                            |  |  |  |
|                             | 2. Partially Funded                                  | P                                            |  |  |  |
|                             | 3. Unfunded                                          | U                                            |  |  |  |
|                             | 4. Under Construction                                | UC                                           |  |  |  |
|                             | 5. Complete                                          | С                                            |  |  |  |
|                             |                                                      |                                              |  |  |  |

<sup>&</sup>lt;sup>1</sup> "Funded" indicates that the sponsoring agency has considered funding for completion of this project to be reasonably available within projected funding sources. "Unfunded" indicates, that while the project has been identified, there is no projected funding to support its completion at this time.

|                                                    | This database is mean to list planned facilities rather than existing facilities, but as time passes many projects in it will be completed.                                                                                                                                 |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Year of Completion or Implementation               | If the project has been completed or implemented, in what year did that happen?                                                                                                                                                                                             |
| Project Within a Regional<br>Activity Center       | Is the project located with in a regional activity center or cluster? See the link for on-line information on activity centers and clusters. A paper map of centers and clusters, which is easier to read than the one on the web, will be sent to anyone who requests one. |
| Project is Between Regional Activity Centers       | Project connects one regional activity center or cluster with another                                                                                                                                                                                                       |
| Maintenance                                        | Project is primarily maintenance or reconstruction of an existing facility                                                                                                                                                                                                  |
| Project Connects to a<br>Transit Facility          | Project connects to a metrorail station, commuter rail station, or transit center                                                                                                                                                                                           |
| BikeNetConnect                                     | Bicycle Network Connectivity. Does the project improve the connectivity of the regional bicycle network? Does it connect to any existing bicycle facilities?                                                                                                                |
| Pedestrian Safety Project                          | Is the primary purpose of this project to improve pedestrian safety?                                                                                                                                                                                                        |
| Project Identified as a 2005<br>Regional Priority* | Is the project one of the regional priority unfunded bicycle and pedestrian projects recommended by the Transportation Planning Board for consideration in the TIP? (The most recent list, with descriptions, is shown below)                                               |



# Transportation Planning Board

# National Capital Region Bicycle and Pedestria

Last

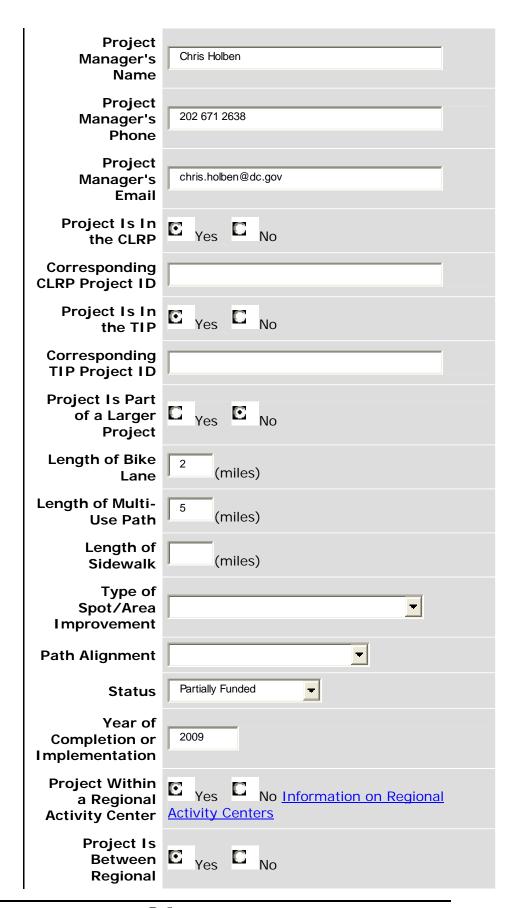
- Search
- Results List All

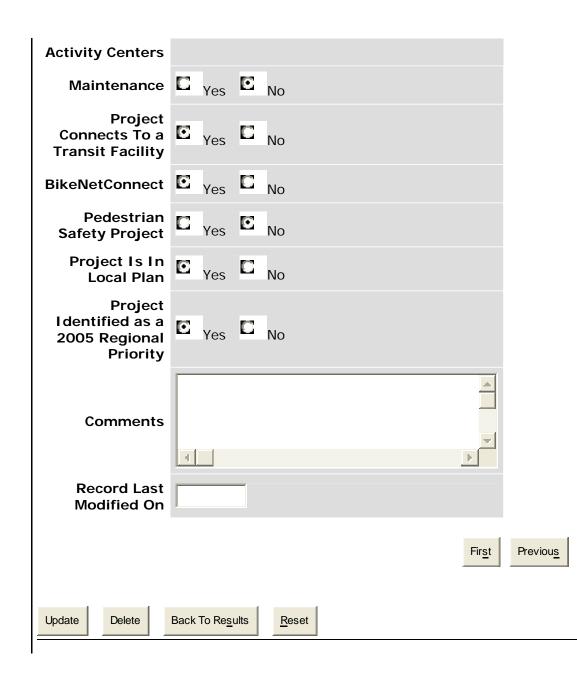
Log Out

#### **Bike Ped Plan**

Related Records: Agency

| COG Project ID                         | 167967369                                                         |
|----------------------------------------|-------------------------------------------------------------------|
| Agency Project<br>ID                   |                                                                   |
| Project Name                           | Metropolitan Branch Trail                                         |
| From                                   | Union Station                                                     |
| То                                     | Takoma Park                                                       |
| Length of<br>Project                   | 7 (miles)                                                         |
| Description                            | Construct a 7 mile trail along the red line from Union Station to |
|                                        | 4                                                                 |
| Jurisdiction(s)                        | Washington                                                        |
| State                                  | DC •                                                              |
| Agency                                 | DDOT                                                              |
| Secondary<br>Agency                    |                                                                   |
| Cost                                   | \$ 20000 (In Thousands)                                           |
| URL for More<br>Project<br>Information | w w w .metbranchtrail.com                                         |





# **Appendix C**

# Bicycle and Pedestrian Projects In the 2005 CLRP

### 2005 CLRP Bicycle and Pedestrian Project List

| Facility                                       | From                                                | То                                                    | Complete In | Cost (\$1,000s) |
|------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|-------------|-----------------|
| District of Columbia                           |                                                     |                                                       |             |                 |
| District-wide Bicycle Management Program       | Bicycle racks, lanes and bicycle signs              |                                                       | 2010        | \$800           |
| Watts Branch                                   |                                                     |                                                       |             | \$400           |
| Upper Rock Creek Trail Study                   |                                                     |                                                       | 2007        | \$1,000         |
| Union Station Bike Station                     |                                                     |                                                       | 2006        | \$500           |
| Oxon Run Trail Restoration                     |                                                     |                                                       | 2007        | \$500           |
| Farragut Station Pedestrian Tunnel             |                                                     |                                                       | 2007        | \$100           |
| National Recreational Trails                   |                                                     |                                                       | 2012        | \$180           |
| Kingman Island Trail Construction              | Two island in the Anacostia River south (downstream | ) Benning Road in Ward 7                              | 2005        | \$600           |
| Rock Creek Park Trail                          |                                                     |                                                       | 2007        | \$2,000         |
| Anacostia Riverwalk Trail                      | Benning Road to Naval Yard (West Side of River)     | Bladensburg Trail to Naval Annex (East Side of River) | 2012        | \$14,400        |
| Rose Park                                      |                                                     |                                                       |             | \$300           |
| Metropolitan Branch Trail                      |                                                     |                                                       | 2009        | \$12,500        |
| East Entrance Foggy Bottom                     |                                                     |                                                       | 2007        | \$100           |
| Cultural/Heritage Trail System                 | Citywide                                            |                                                       | 2007        | \$400           |
| <b>Maryland</b>                                |                                                     |                                                       |             |                 |
| North Bethsda Trail Bridges                    | crossings of I-495 and I-270                        |                                                       | 2004        | \$5,313         |
| Old Columbia Pike                              | E. Randolph Road                                    | MD 198                                                | 2005        | \$2,847         |
| Annual Bikeway Program                         | countywide                                          |                                                       |             | \$2,944         |
| Forest Glen Pedestrian Bridges                 | west side of Georgia Avenue at Locust Grove Road    | west side of Georgia Avenue at Forest Glen Road       | 2006        | \$7,709         |
| North Bethesda Trail                           | Twinbrook Metro Station                             | Norfolk/Rugby Ave. intersection (Bethesda)            | 2005        | \$1,470         |
| Mathew Henson Trail                            | Rock Creek Trail (west of Viers Mill Road)          | Alderton Lane                                         | 2007        | \$4,570         |
| Metropolitan Branch Trail                      | Silver Spring Metro/Transit Center                  | Montgomery College Campus in Takoma Park              | 2007        | \$5,300         |
| Silver Spring Green Trail                      | Silver Spring Metro Station                         | Sligo Creek Hiker-Biker Trail                         | 2007        | \$6,060         |
| Pedestrian Safety Program                      |                                                     |                                                       |             | \$1,200         |
| Annual Sidewalk Program                        | countywide                                          |                                                       |             | \$7,800         |
| Greentree Road Sidewalk                        | Old Georgetown Road                                 | Fernwood Road                                         | 2009        | \$1,788         |
| Shady Grove Access Bike Path                   | Shady Grove Road                                    | Redland Road                                          | 2008        | \$2,714         |
| US 29 Sidewalks                                | University Boulevard                                | New Hampshire Avenue                                  | 2006        | \$3,820         |
| Bethesda Bikeway and Pedestrian Facilities     | Bethesda CBD                                        |                                                       | 2008        | \$3,340         |
| Virginia                                       |                                                     |                                                       |             |                 |
| Arlington Boulevard Ped and Bike Trail         | Fairfax County Line                                 | N. Meade Street                                       | 2025        | \$735           |
| Sidewalk Construction                          | City of Alexandria                                  | City-wide                                             | 2007        | \$938           |
| Route 50 Pedestrian Improvements               | Jaguar Trail                                        | Patrick Henry Drive                                   | 2025        | \$2,800         |
| Sidewalks and Trails                           | Town of Hamilton                                    |                                                       |             |                 |
| VA 123 Bike Path                               | VA 120                                              | Fairfax County Line                                   | 2015        | \$3,600         |
| W&OD Trail Extension                           | W&OD Trail End (Purcellville)                       | Bluemont                                              | 2025        | \$1,800         |
| Pedestrian/Bicycle Plaza & Pathways - Phase II | Town of Clifton                                     |                                                       |             | \$158           |
| Manassas Drive                                 | Western City Limit                                  | Fairway Court                                         |             |                 |
| Ped and Bike Improvements                      | in the Town of Occoquan                             |                                                       |             |                 |
|                                                |                                                     |                                                       |             |                 |

| Pedestrian Bridge over CSX Railroad  10th St. Pedestrian Facilities  Duke Street Ped Bridge  Bike and Ped Trails and Sidewalks  Metro Station (King Street)  Trails/Sidewalks  Purcellville Multi-Purpose Trail  Sugarland Run Trail  Courthouse Metro Station  Hunter Mill Road Bikeway  Ped & Bike Path Network  Sidewalks and Trails  Herndon Trail to Dulles Rail  W&OD Trail Crossing Improvements  Town of Haymarket Streetscaping | Sycamore Street  @ Veterans Memorial Park Wilson Blvd. Near Cameron Station City of Alexandria City of Alexandria County-wide Main Street W&OD Trail  VA 123 Town of Lovettsville in the Town of Quantico Herndon @ Van Buren / Worldgate Intersection Town of Herndon | Arlington Boulevard DOT #860626C Washington Blvd.  Hirst Drive VA 7  VA 7 | 2015<br>2003<br>2007<br>2006<br>2007<br>2006<br>2006<br>2006<br>2025<br>2007<br>2025 | \$2,000<br>\$2,225<br>\$500<br>\$525<br>\$834<br>\$15,000<br>\$2,037<br>\$460<br>\$700<br>\$2,060<br>\$400 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Pedestrian Bridge over CSX Railroad  10th St. Pedestrian Facilities  Duke Street Ped Bridge  Bike and Ped Trails and Sidewalks  Metro Station (King Street)  Trails/Sidewalks  Purcellville Multi-Purpose Trail  Sugarland Run Trail  Courthouse Metro Station  Hunter Mill Road Bikeway  Ped & Bike Path Network  Sidewalks and Trails  Herndon Trail to Dulles Rail  W&OD Trail Crossing Improvements  Town of Haymarket Streetscaping | Weterans Memorial Park Wilson Blvd. Near Cameron Station City of Alexandria City of Alexandria County-wide Main Street W&OD Trail  VA 123 Town of Lovettsville in the Town of Quantico Herndon @ Van Buren / Worldgate Intersection                                    | DOT #860626C Washington Blvd.  Hirst Drive VA 7  VA 7                     | 2003<br>2007<br>2006<br>2007<br>2006<br>2006<br>2025<br>2007                         | \$2,225<br>\$500<br>\$525<br>\$834<br>\$15,000<br>\$2,037<br>\$460<br>\$700<br>\$2,060<br>\$400            |
| 10th St. Pedestrian Facilities  Duke Street Ped Bridge  Bike and Ped Trails and Sidewalks  Metro Station (King Street)  Trails/Sidewalks  Purcellville Multi-Purpose Trail  Sugarland Run Trail  Courthouse Metro Station  Hunter Mill Road Bikeway  Ped & Bike Path Network  Sidewalks and Trails  Herndon Trail to Dulles Rail  W&OD Trail Crossing Improvements  Town of Haymarket Streetscaping                                      | Near Cameron Station City of Alexandria City of Alexandria County-wide Main Street W&OD Trail  VA 123 Town of Lovettsville in the Town of Quantico Herndon @ Van Buren / Worldgate Intersection                                                                        | Hirst Drive<br>VA 7<br>VA 7                                               | 2006<br>2007<br>2006<br>2006<br>2025<br>2007                                         | \$525<br>\$834<br>\$15,000<br>\$2,037<br>\$460<br>\$700<br>\$2,060<br>\$400                                |
| Bike and Ped Trails and Sidewalks  Metro Station (King Street)  Trails/Sidewalks  Purcellville Multi-Purpose Trail  Sugarland Run Trail  Courthouse Metro Station  Hunter Mill Road Bikeway  Ped & Bike Path Network  Sidewalks and Trails  Herndon Trail to Dulles Rail  W&OD Trail Crossing Improvements  Town of Haymarket Streetscaping                                                                                              | City of Alexandria City of Alexandria County-wide Main Street W&OD Trail  VA 123 Town of Lovettsville in the Town of Quantico Herndon @ Van Buren / Worldgate Intersection                                                                                             | Hirst Drive<br>VA 7<br>VA 7                                               | 2007<br>2006<br>2006<br>2025<br>2007                                                 | \$834<br>\$15,000<br>\$2,037<br>\$460<br>\$700<br>\$2,060<br>\$400                                         |
| Metro Station (King Street)  Trails/Sidewalks  Purcellville Multi-Purpose Trail  Sugarland Run Trail  Courthouse Metro Station  Hunter Mill Road Bikeway  Ped & Bike Path Network  Sidewalks and Trails  Herndon Trail to Dulles Rail  W&OD Trail Crossing Improvements  Town of Haymarket Streetscaping                                                                                                                                 | City of Alexandria County-wide Main Street W&OD Trail  VA 123 Town of Lovettsville in the Town of Quantico Herndon @ Van Buren / Worldgate Intersection                                                                                                                | VA 7                                                                      | 2006<br>2006<br>2025<br>2007                                                         | \$15,000<br>\$2,037<br>\$460<br>\$700<br>\$2,060<br>\$400                                                  |
| Trails/Sidewalks  Purcellville Multi-Purpose Trail  Sugarland Run Trail  Courthouse Metro Station  Hunter Mill Road Bikeway  Ped & Bike Path Network  Sidewalks and Trails  Herndon Trail to Dulles Rail  W&OD Trail Crossing Improvements  Town of Haymarket Streetscaping                                                                                                                                                              | County-wide Main Street W&OD Trail  VA 123 Town of Lovettsville in the Town of Quantico Herndon @ Van Buren / Worldgate Intersection                                                                                                                                   | VA 7                                                                      | 2006<br>2006<br>2025<br>2007                                                         | \$2,037<br>\$460<br>\$700<br>\$2,060<br>\$400                                                              |
| Trails/Sidewalks  Purcellville Multi-Purpose Trail  Sugarland Run Trail  Courthouse Metro Station  Hunter Mill Road Bikeway  Ped & Bike Path Network  Sidewalks and Trails  Herndon Trail to Dulles Rail  W&OD Trail Crossing Improvements  Town of Haymarket Streetscaping                                                                                                                                                              | Main Street W&OD Trail  VA 123 Town of Lovettsville in the Town of Quantico Herndon @ Van Buren / Worldgate Intersection                                                                                                                                               | VA 7                                                                      | 2006<br>2025<br>2007                                                                 | \$460<br>\$700<br>\$2,060<br>\$400                                                                         |
| Purcellville Multi-Purpose Trail Sugarland Run Trail Courthouse Metro Station Hunter Mill Road Bikeway Ped & Bike Path Network Sidewalks and Trails Herndon Trail to Dulles Rail W&OD Trail Crossing Improvements Town of Haymarket Streetscaping                                                                                                                                                                                        | Main Street W&OD Trail  VA 123 Town of Lovettsville in the Town of Quantico Herndon @ Van Buren / Worldgate Intersection                                                                                                                                               | VA 7                                                                      | 2025<br>2007                                                                         | \$700<br>\$2,060<br>\$400                                                                                  |
| Courthouse Metro Station Hunter Mill Road Bikeway Ped & Bike Path Network Sidewalks and Trails Herndon Trail to Dulles Rail W&OD Trail Crossing Improvements Town of Haymarket Streetscaping                                                                                                                                                                                                                                             | VA 123 Town of Lovettsville in the Town of Quantico Herndon @ Van Buren / Worldgate Intersection                                                                                                                                                                       | VA 7                                                                      | 2007                                                                                 | \$2,060<br>\$400                                                                                           |
| Hunter Mill Road Bikeway Ped & Bike Path Network Sidewalks and Trails Herndon Trail to Dulles Rail W&OD Trail Crossing Improvements Town of Haymarket Streetscaping                                                                                                                                                                                                                                                                      | Town of Lovettsville<br>in the Town of Quantico<br>Herndon @ Van Buren / Worldgate Intersection                                                                                                                                                                        |                                                                           |                                                                                      | \$400                                                                                                      |
| Ped & Bike Path Network Sidewalks and Trails Herndon Trail to Dulles Rail W&OD Trail Crossing Improvements Town of Haymarket Streetscaping                                                                                                                                                                                                                                                                                               | Town of Lovettsville<br>in the Town of Quantico<br>Herndon @ Van Buren / Worldgate Intersection                                                                                                                                                                        |                                                                           | 2025                                                                                 |                                                                                                            |
| Ped & Bike Path Network Sidewalks and Trails Herndon Trail to Dulles Rail W&OD Trail Crossing Improvements Town of Haymarket Streetscaping                                                                                                                                                                                                                                                                                               | in the Town of Quantico<br>Herndon @ Van Buren / Worldgate Intersection                                                                                                                                                                                                |                                                                           |                                                                                      |                                                                                                            |
| Herndon Trail to Dulles Rail  W&OD Trail Crossing Improvements  Town of Haymarket Streetscaping                                                                                                                                                                                                                                                                                                                                          | Herndon @ Van Buren / Worldgate Intersection                                                                                                                                                                                                                           |                                                                           |                                                                                      | \$422                                                                                                      |
| W&OD Trail Crossing Improvements Town of Haymarket Streetscaping                                                                                                                                                                                                                                                                                                                                                                         | · ·                                                                                                                                                                                                                                                                    |                                                                           |                                                                                      |                                                                                                            |
| W&OD Trail Crossing Improvements Town of Haymarket Streetscaping                                                                                                                                                                                                                                                                                                                                                                         | · ·                                                                                                                                                                                                                                                                    | Herndon - Monroe Dulles Rail Station                                      | 2010                                                                                 | \$425                                                                                                      |
| Town of Haymarket Streetscaping                                                                                                                                                                                                                                                                                                                                                                                                          | TOWITOL TELLIUULI                                                                                                                                                                                                                                                      | Crestview Drive, Ferndale Avenue, Grace Street, etc.                      | 2008                                                                                 | \$300                                                                                                      |
| , ,                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                        |                                                                           | 2007                                                                                 | \$999                                                                                                      |
| Town of Herndon                                                                                                                                                                                                                                                                                                                                                                                                                          | Town Hall Square                                                                                                                                                                                                                                                       | Streetscaping & bike / ped improvements                                   | 2008                                                                                 | \$774                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | Courthouse Rd.                                                                                                                                                                                                                                                         | Ft. Myer Dr.                                                              | 2004                                                                                 | \$500                                                                                                      |
| ,                                                                                                                                                                                                                                                                                                                                                                                                                                        | @ N. Randolph St.                                                                                                                                                                                                                                                      | ,                                                                         | 2003                                                                                 | \$350                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | W&OD Trail @ Leesburg                                                                                                                                                                                                                                                  | Whites Ferry/Potomac River                                                | 2025                                                                                 | \$800                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mt. Vernon Bike/Ped Trail                                                                                                                                                                                                                                              | Potomac Yard                                                              | 2008                                                                                 | \$1,000                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | Daniel's Run                                                                                                                                                                                                                                                           | Pickett Road                                                              |                                                                                      | \$1,093                                                                                                    |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                        | Various Locations - 2 Transit Stations &                                                                                                                                                                                                                               | 4 Regional Malls                                                          |                                                                                      |                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | City of Manassas WCL (Godwin Drive)                                                                                                                                                                                                                                    | 1-66                                                                      |                                                                                      |                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fauquier Co. Line                                                                                                                                                                                                                                                      | US 29 (Centreville)                                                       | 2010                                                                                 | \$900                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | City of Fairfax                                                                                                                                                                                                                                                        | ,                                                                         | 2006                                                                                 |                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | County-wide                                                                                                                                                                                                                                                            | Prince William County                                                     |                                                                                      |                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | Springfield                                                                                                                                                                                                                                                            | Tysons Corner                                                             | 2025                                                                                 | \$1,500                                                                                                    |
| Alex.'s Union Station / King Street Metrorail Station                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                        | ,                                                                         | 2004                                                                                 | \$375                                                                                                      |
| Rosslyn Circle Bike/Ped Grade Separation                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                        |                                                                           | 2004                                                                                 | \$1,250                                                                                                    |
| Old Town Manassas City Square, Walkways, & Cross                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                        |                                                                           | 2004                                                                                 | \$313                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fauquier Co. Line                                                                                                                                                                                                                                                      | DC Line                                                                   | 2025                                                                                 | \$3,200                                                                                                    |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                        | Arlington County,                                                                                                                                                                                                                                                      |                                                                           | 2004                                                                                 | \$650                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | County-wide                                                                                                                                                                                                                                                            |                                                                           |                                                                                      |                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | Fauquier Co. Line                                                                                                                                                                                                                                                      | WCL of City of Fairfax                                                    | 2010                                                                                 | \$800                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | Vermont                                                                                                                                                                                                                                                                | Yorktown                                                                  | 2010                                                                                 | \$450                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | Wolf Trap National Park                                                                                                                                                                                                                                                | VA 675 (Beulah Road)                                                      | 2007                                                                                 | \$750                                                                                                      |
| Old Dominion Drive (VA 309) (Pedestrian & Bicycle Im F                                                                                                                                                                                                                                                                                                                                                                                   | ·                                                                                                                                                                                                                                                                      | US 29 (Lee Highway)                                                       | 2005                                                                                 | \$1,560                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | County-wide                                                                                                                                                                                                                                                            | . 3,                                                                      |                                                                                      | \$1,200                                                                                                    |

\$147,038

# **Appendix D**

Bicycle and Pedestrian Projects In the FY 2006-2011 TIP FY2006-2011 TIP Bicycle Pedestrian Projects

| Facility                                   | From                                               | То                                               | Complete In | Cost (\$1,000s) |
|--------------------------------------------|----------------------------------------------------|--------------------------------------------------|-------------|-----------------|
| District of Columbia                       |                                                    |                                                  |             |                 |
| Anacostia Riverwalk Trail                  | Benning Rd South to Navy Yard (West side of River) | Bladensburg Trail to Naval Annex (East Side of R | i 2012      | \$14,400        |
| Downtown Traffic Control Aides             |                                                    |                                                  | 2020        | \$8,250         |
| Metropolitan Branch Trail                  |                                                    |                                                  | 2009        | \$12,500        |
| National Recreational Trails               |                                                    |                                                  | 2012        | \$180           |
| Oxon Run Trail Restoration                 |                                                    |                                                  | 2007        | \$500           |
| Pedestrian Passageway/Tunnel               | 1st Street Metro Station Kiosk                     | 1st Street, N.E. (Under H Street Overpass)       | 2007        | \$2,300         |
| Rock Creek Park Trail                      |                                                    |                                                  | 2007        | \$2,000         |
| Rose Park                                  |                                                    |                                                  | 2007        | \$300           |
| Union Station Bike Station                 |                                                    |                                                  | 2006        | \$500           |
| Upper Rock Creek Trail Study               |                                                    |                                                  | 2007        | \$1,000         |
| Maryland                                   |                                                    |                                                  |             |                 |
| ADA Compliance Transportation Access       | Countywide                                         |                                                  |             | \$5,992         |
| Annual Bikeway Program                     | countywide                                         |                                                  |             | \$1,537         |
| Annual Sidewalk Program                    | countywide                                         |                                                  |             | \$6,051         |
| Bethesda Bikeway and Pedestrian Facilities | Bethesda CBD                                       |                                                  | 2008        | \$2,592         |
| Forest Glen Pedestrian Bridge              | west side of Georgia Avenue at Locust Grove Road   | west side of Georgia Avenue at Forest Glen Road  | 2006        | \$1,655         |
| Greentree Road Sidewalk                    | Old Georgetown Road                                | Fernwood Road                                    | 2009        | \$1,788         |
| Mathew Henson Trail                        | Alderton Lane                                      | Rock Creek Trail                                 | 2007        | \$3,000         |
| Pedestrian Safety Program                  | CBDs                                               |                                                  |             | \$1,000         |
| Silver Spring Green Trail                  | Silver Spring Metro Station                        | Sligo Creek Hiker-Biker Trail                    | 2007        | \$4,435         |
| US 29 Sidewalks                            | University Blvd.                                   | New Hampshire Ave.                               | 2006        | \$1,700         |
| Virginia                                   |                                                    |                                                  |             |                 |
| 10th St. Pedestrian Facilities             | Wilson Blvd.                                       | Washington Blvd.                                 | 2007        | \$500           |
| Accotink Gateway Connector Trail           | King Arthur Drive                                  | Wakefield Park                                   | 2004        | \$2,257         |
| Arlington Boulevard Ped and Bike Trail     | Fairfax County Line                                | Pershing Drive                                   | 2005        | \$735           |
| Bike/Ped Trails                            | Various Locations - 2 Transit Stations &           | 4 Regional Malls                                 | 2005        | \$750           |
| Columbia Pike Asphalt Multi-Use Path       | Holmes Run                                         | Powell Lane                                      | 2006        | \$395           |
| Cross County Trail                         | Great Falls Park to Alban Road                     | Lake Accotink Dam to Hunter Village Drive segm   | 2007        | \$800           |
| Duke Street Ped Bridge                     | Near Cameron Station                               |                                                  | 2006        | \$400           |
| Eisenhower Avenue Multi-Use Trail          | Trail extension                                    |                                                  | 2006        | \$754           |
| Four Mile Run Trail                        | Shirlington Road                                   | West Glebe Road                                  | 2007        | \$935           |
| Holmes Run Bike Trail                      | I-395                                              | Ripley Street                                    | 2006        | \$250           |

FY2006-2011 TIP Bicycle Pedestrian Projects

| Facility                                               | From                                                                                  | То                                               | Complete In | Cost (\$1,000s) |
|--------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------|-------------|-----------------|
| I-95 Wilson Bridge                                     | Jones Point Park Improvements                                                         |                                                  | 2010        | \$13,404        |
| Main Street                                            | Town of Hamilton                                                                      |                                                  | 2007        | \$48            |
| MEADE STREET                                           | ARLINGTON BLVD BRIDGE                                                                 | PEDESTRIAN IMPROVEMENTS                          | 2006        | \$125           |
| Metrorail Station (King Street) Mezzanine              | North Side of King Street                                                             | North End of Passenger Platform                  | 2006        | \$5,000         |
| On-Road Bike Trails                                    | Fairfax County-wide                                                                   |                                                  | 2009        | \$500           |
| Pedestrian Improvements, Bus Stop Access Improvement   | n Bike Projects                                                                       | Fairfax County                                   |             | \$1,200         |
| Pedestrian Trail                                       | over George Washington Memorial Parkway                                               |                                                  | 2006        | \$992           |
| Pedestrian/Bicycle Plaza & Pathways                    | Town of Clifton                                                                       | - Phase II                                       | 2007        | \$56            |
| Purcellville Multi-Purpose Trail                       | Main Street                                                                           | Hirst Drive                                      | 2007        | \$460           |
| Rosslyn Circle Bike/Ped Grade Separation               | n Circle Bike/Ped Grade Separation @ Key Bridge                                       |                                                  | 2006        | \$1,250         |
| Route 110 Bicycle Trail                                | North Pentagon Parking Lot                                                            | Memorial Drive                                   | 2007        | \$219           |
| Sidewalk Construction                                  | City of Alexandria                                                                    | City-wide                                        | 2007        | \$938           |
| Signal View Drive Multi-Use Trail                      | gnal View Drive Multi-Use Trail Within Signal Hill Park Parallel to Signal View Drive |                                                  | 2006        | \$18            |
| Soapstone Drive Pedestrian Improvements                | South Lakes Drive                                                                     | Snakeden Branch                                  | 2006        | \$767           |
| Sugarland Run Trail W&OD Trail Fa                      |                                                                                       | Fairfax County's Sugarland Run Trail             | 2005        | \$898           |
| Town of Herndon                                        | of Herndon Town Hall Square Streetscaping & bike / ped improvements                   |                                                  | 2008        | \$670           |
| US 1 - Sidewalks, Trails, and Paths                    | VA 619 (Old Mill Road)                                                                | VA 1332 (Huntington Ave.)                        | 2007        | \$920           |
| US 29 (Lee Highway) Fairfax Circle                     | @ US 50                                                                               |                                                  | 2005        | \$338           |
| US 29 Shared-Use Path                                  | I-66                                                                                  | Trinity Parkway                                  | 2006        | \$583           |
| US 50 (install fence)                                  | VA 7                                                                                  | Patrick Henry Drive                              | 2007        | \$563           |
| US 50 Pedestrian Bridge                                | Vicinity of the Seven Corners Shopping Center                                         |                                                  | 2007        | \$3,859         |
| US 50 Pedestrian Improvements                          | Jaguar Trail                                                                          | Patrick Henry Drive                              | 2007        | \$1,509         |
| VA 120 (N. Glebe) Pedestrian Crossings                 | Ballston                                                                              | Near the Mall, Hecht's, and Ballston Movie Theat | 2007        | \$1,250         |
| VA 120 (South Glebe Road)                              | @ 27th Street                                                                         | @ Ramp from I-395 to West Glebe Road             | 2006        | \$63            |
| VA 120 (South Glebe Road)                              | @ South Walter Reed Drive                                                             |                                                  | 2005        | \$144           |
| VA 234 (Dumfries Road) Multi-Purpose Trail             | Lake Jackson Drive                                                                    | VA 234 Business                                  | 2007        | \$649           |
| VA 234 Business - Sidewalks & Ramps                    | City of Manassas WCL (Godwin Drive)                                                   | VA 621 (Balls Ford Road)                         | 2006        | \$430           |
| VA 234 Business - Signalized Crosswalks                | City of Manassas WCL (Godwin Drive)                                                   | I-66                                             | 2008        | \$481           |
| VA 236 Pedestrian Safety Improvements                  | Beauregard Street                                                                     | I-395                                            | 2007        | \$372           |
| VA 309 (Old Dominion Drive) (Pedestrian & Bicycle Impr | Fairfax County Line                                                                   | US 29 (Lee Highway)                              | 2007        | \$1,483         |
| VA 641 (Old Bridge Road)                               | VA 3000 (Prince William Parkway)                                                      | Cricket Lane                                     | 2008        | \$406           |
| VA 7 (Main Street)                                     | Maple Avenue                                                                          | Pickwick Drive                                   | 2009        | \$535           |
| VA 9                                                   | @ VA 704                                                                              | in the Town of Hillsboro                         | 2009        | \$1,980         |

FY2006-2011 TIP Bicycle Pedestrian Projects

| Facility                                    | From                    | То                                              | Complete In | Cost (\$1,000s) |
|---------------------------------------------|-------------------------|-------------------------------------------------|-------------|-----------------|
| W&OD Trail Crossing Improvements            | Town of Herndon         | Crestview Drive, Ferndale Avenue, Grace Street, | 2008        | \$150           |
| Wolf Trap National Park Pedestrian Crossing | Wolf Trap National Park | VA 675 (Beulah Road)                            | 2007        | \$335           |
|                                             |                         |                                                 |             | \$122,051       |

# **Appendix E**

Completed Bicycle and Pedestrian Projects
From the Previous Bicycle Plan
For the National Capital Region

| Old#         | State    | Project                                   | Limits/ Description                                                                                                                                                          | Jurisdiction | Funding<br>Agency | Est.<br>Cost<br>(thous) | Status/<br>Comments |
|--------------|----------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|-------------------------|---------------------|
| 1d           | VA       | W&OD Trail Bypass                         | Construct bypass from W&OD<br>Trail near Bluemont Park                                                                                                                       | ARL          | ARL,<br>NVRPA     | 125                     | Complete            |
| 3k           | VA       | Chain Bridge Trail                        | Widen sidewalks                                                                                                                                                              | ARL          | ARL               |                         | Complete            |
| 30           | VA       | Columbia<br>Pike/Pentagon Area<br>Trails  | 1)Construct bikeway linking<br>Columbia Pike and southern<br>Arlington to Mt. Vernon 2) widen<br>sidewalk along Washington Blvd<br>between Sycamore Street and<br>Glebe Road | ARL          | DOD, ARL          | 550                     |                     |
| 51           | VA       | Arlington Commercial Area Bicycle Parking | An estimated 250 racks to be installed                                                                                                                                       | ARL          | ARL               | 40                      | Complete            |
| 4c           | VA       | Alexandria/Fairfax<br>Beltway Crossing    | Bicinity of Eisenhower Avenue and Clermont Drive                                                                                                                             | ALX, FFX     | ARL, FFX,<br>VA   | 150                     | Complete            |
| 1a           | DC       | Mall Trail<br>Improvements                | Washington Mall                                                                                                                                                              | DC           | DC, NPS,<br>ARCH  | 500                     | Complete            |
| 3a           | DC       | Capital Crescent<br>Trail                 | Georgetown to DC Line                                                                                                                                                        | DC           | DC, NPS           | 11800                   | Complete            |
| 6i           | DC/MD/VA | Metro Bike-On-Rail                        | System wide policy                                                                                                                                                           | DC, MD, VA   | DC,<br>WMATA      |                         | Complete            |
| 3am/<br>2000 | VA       | Gateway-Accotink<br>Connector             | Trail from Daniel's Run in Fairfax<br>City to Pickett Rd.in Fairfax City<br>to Lake Accotink                                                                                 | FFX          | FFX               |                         | Mostly<br>Complete  |
| 3v           | VA       | Fairfax Parkway<br>Bikeway                | Last 6 miles of multi-use trail<br>adjacent to Fairfax County<br>Parkway                                                                                                     | FFX          | FFX               | 1000                    | Partly<br>Complete  |

| 6e          | MD | Georgetown Branch<br>Trail                    |                                                                                                                    | MC      | MD, MC          |      | Complete                                                             |
|-------------|----|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------|-----------------|------|----------------------------------------------------------------------|
| 6m          | MD | Bethesda TrolleyTrail                         | Construct missing portions of bicycle network to NIH and White Flint Metro Stations                                | MC      | MC, MD,<br>FHWA | 1720 | Partly<br>Complete.<br>Two bridges<br>built                          |
| New<br>2000 | MD | Gude Drive to Rock<br>Creek Park Trail        | Connect Gude Dr (part of the bicycle beltway) with the Rock Creek Trail near the former Montgomery County Landfill | MC      | RVL/MNCP<br>PC  | 150  |                                                                      |
| 3f          | VA | Sligo Creek Trail<br>Extension                | Link trail with NW Branch, Long<br>Branch, and AnacostiaTrails                                                     | MC, PGC | MC, NPS,<br>PGC | 183  | Complete                                                             |
| 3g          | VA | Northwest Branch<br>Trail                     | Complete missing trail sections                                                                                    | PGC     | NPS, PGC        | 200  | Complete                                                             |
| 3h          | VA | Northeast Branch                              |                                                                                                                    | PGC     | PGC             |      | Complete                                                             |
| 6j          | MD | Annapolis Rd Rte<br>450 Trail                 | Anne Arundel Co. Line to New Carrollton Metro Station                                                              | PGC     | PGC, MD         | 1500 | under<br>construction                                                |
| 60          | MD | Cherrywood Lane<br>Metro Extension            | Construct bike lanes to connect<br>Cherrywood Lane to Metro                                                        | PGC     | PGC, MD         |      | Complete                                                             |
| 7h          | MD | Wash. Balto. Annap                            | Trail on WB&A line ROW from Glenarden to Anne Arundel Co.                                                          | PGC     | PGC             |      | Complete. Does not extend into Anne Arundel County                   |
| <b>7</b> j  | MD | College Park Trolley<br>Trail                 | Construct a trail along the abandoned Hyattsville-College Park-Laurel trolley right of way                         |         |                 |      | Phase I<br>complete, from<br>Greenbelt to<br>Paint Branch<br>Parkway |
| 2р          | VA | Old Bridge Corridor<br>Enhancement<br>Project | Paved shoulders and/or<br>separate path along Old Bridge<br>Rd., Davis Ford Rd. and Prince<br>William Pkwy.        | PW      | PW              | 375  | complete                                                             |

| 7v          | VA | Old Bridge Road<br>Trail  | Construct trail to connect Rte 1 to Lake Ridge, Tacketts Mill to PW Parkway | PW | PWC, VA | 366              |               |
|-------------|----|---------------------------|-----------------------------------------------------------------------------|----|---------|------------------|---------------|
| New<br>2000 | VA | Prince William<br>Parkway |                                                                             |    | PWC, VA | Funded/c<br>1995 | omplete since |

## **Appendix F**

#### **Cordon Counts**

Table 2-3 2002 Metro Core Cordon Count Inbound Bicycles and Outbound Bicycles (outbound 1999 and 2002 only) 1986 - 2002

6:30 - 9:30 A.M. and 3:30 - 6:30 P.M. (P.M. 1999 and 2002 only)

| Locations                               |            |            |            |            |            |            | 1999         |                  | 2002         |                  |
|-----------------------------------------|------------|------------|------------|------------|------------|------------|--------------|------------------|--------------|------------------|
|                                         | 1986       | 1987       | 1988       | 1990       | 1993       | 1996       | A.M. inbound | P.M.<br>Outbound | A.M. inbound | P.M.<br>Outbound |
| D.C. (Sectors 4-9)<br>Va. (Sectors 1-3) | 474<br>N/C | 470<br>N/C | 568<br>N/C | 771<br>N/C | 799<br>N/C | 920<br>N/C | 1,152<br>409 | 1,025<br>565     | 1,379<br>645 | 1,113<br>425     |
| Totals Crossing Cordon<br>Line          |            |            |            |            |            |            | 1,561        | 1,590            | 2,024        | 1,538            |
| 14th Street Bridge                      | 131        | 78         | 107        | 139        | 157        | 211        | 197          | 197              | 300          | 238              |
| Memorial Bridge                         | 49         | 124        | 146        | 219        | 120        | 232        | 220          | 104              | 104          | 143              |
| T. Roosevelt Bridge                     | 14         | 13         | 2          | 7          | 25         | 59         | 81           | 62               | 18           | 89               |
| Key Bridge                              | 123        | 92         | 104        | 106        | 64         | 86         | 124          | 93               | 103          | 92               |
| Totals Crossing Potomac                 | 317        | 307        | 359        | 471        | 366        | 588        | 622          | 456              | 525          | 562              |

N/C - not counted

Numbers in this table are not statistically significant when combined with other Metro Core Cordon Count data

|       | TAI             | BLE 2-4      |       |  |
|-------|-----------------|--------------|-------|--|
| BICY  | CLE CO          | UNT ON RA    | ADIAL |  |
|       | TRANSP          | ORTATION     | N     |  |
| FAC   | CILITIES        | CROSSING     | THE   |  |
|       | CAPITAL BELTWAY |              |       |  |
|       |                 |              |       |  |
|       | Inbound         | d Bicycle Tr | affic |  |
|       | 6:30 - 9        | :30 A.M.     | _     |  |
| Year  | 1995 1998 2001  |              |       |  |
| Count | 220             | 263          | 214   |  |

# Appendix G

# Origin Station Sorted by % Walk Mode of Access

|    |                     |         | 10: Origir<br>Mode of A | Station by S | orted by |        |
|----|---------------------|---------|-------------------------|--------------|----------|--------|
|    | Origin Station/Mode | Bicycle | Walk                    | All modes    | % Bike   | % Walk |
| 1  | Federal Center      | 4       | 4550                    | 4830         | 0.08%    | 94.2%  |
| 2  | Capitol South       | 14      | 6200                    | 6609         | 0.21%    | 93.8%  |
| 3  | Archives-Navy Mem   | 10      | 7310                    | 7817         | 0.13%    | 93.5%  |
| 4  | Judiciary SQ        | 0       | 9480                    | 10201        | 0.00%    | 92.9%  |
| 5  | Farragut North      | 44      | 24214                   | 26202        | 0.17%    | 92.4%  |
| 6  | McPherson SQ        | 18      | 15404                   | 16700        | 0.11%    | 92.2%  |
| 7  | Federal Triangle    | 0       | 10591                   | 11489        | 0.00%    | 92.2%  |
| 8  | Farragut West       | 24      | 22748                   | 24714        | 0.10%    | 92.0%  |
| 9  | Court House         | 0       | 6373                    | 6954         | 0.00%    | 91.6%  |
| 10 | Woodley Park Zoo    | 39      | 5555                    | 6109         | 0.64%    | 90.9%  |
| 11 | Metro Center        | 61      | 24548                   | 27548        | 0.22%    | 89.1%  |
| 12 | Smithsonian         | 0       | 11808                   | 13409        | 0.00%    | 88.1%  |
| 13 | Waterfront          | 5       | 3340                    | 3814         | 0.13%    | 87.6%  |
| 14 | Gallery Place       | 0       | 12260                   | 14198        | 0.00%    | 86.4%  |
| 15 | Van Ness            | 8       | 5617                    | 6557         | 0.12%    | 85.7%  |
| 16 | Foggy Bottom        | 13      | 18673                   | 21857        | 0.06%    | 85.4%  |
| 17 | Dupont Circle       | 39      | 20433                   | 24040        | 0.16%    | 85.0%  |
| 18 | Cleveland Park      | 8       | 4637                    | 5474         | 0.15%    | 84.7%  |
| 19 | U Street            | 5       | 3167                    | 3744         | 0.13%    | 84.6%  |
| 20 | Mt Vernon SQ        | 7       | 1658                    | 1969         | 0.36%    | 84.2%  |
| 21 | Virginia Square     | 31      | 2441                    | 2940         | 1.05%    | 83.0%  |
| 22 | Arlington Cemetery  | 0       | 1479                    | 1797         | 0.00%    | 82.3%  |
| 23 | Navy Yard           | 0       | 2602                    | 3173         | 0.00%    | 82.0%  |
| 24 | Eastern Market      | 46      | 4014                    | 4912         | 0.94%    | 81.7%  |
| 25 | Columbia Heights    | 56      | 4352                    | 5339         | 1.05%    | 81.5%  |
| 26 | Crystal City        | 25      | 10640                   | 13168        | 0.19%    | 80.8%  |
| 27 | L'Enfant Plaza      | 0       | 18021                   | 22716        | 0.00%    | 79.3%  |
| 28 | Shaw Howard U       | 40      | 2571                    | 3326         | 1.20%    | 77.3%  |
| 29 | Clarendon           | 29      | 2163                    | 2975         | 0.97%    | 72.7%  |
| 30 | Eisenhower Avenue   | 0       | 1051                    | 1447         | 0.00%    | 72.6%  |
| 31 | Bethesda            | 12      | 6880                    | 9635         | 0.12%    | 71.4%  |
| 32 | Rosslyn             | 13      | 10921                   | 15527        | 0.08%    | 70.3%  |
| 33 | Ballston            | 33      | 7670                    | 11355        | 0.29%    | 67.5%  |
| 34 | Tenley Town         | 111     | 4117                    | 6119         | 1.81%    | 67.3%  |
| 35 | Friendship HTS      | 36      | 5679                    | 8892         | 0.40%    | 63.9%  |
| 36 | Pentagon City       | 11      | 9060                    | 14196        | 0.08%    | 63.8%  |

|    | Origin Station/Mode       | Bicycle | Walk  | All modes | % Bike | % Walk |
|----|---------------------------|---------|-------|-----------|--------|--------|
| 37 | Medical Center            | 88      | 3027  | 4801      | 1.83%  | 63.0%  |
| 38 | King Street               | 33      | 3609  | 5899      | 0.56%  | 61.2%  |
| 39 | Union Station             | 53      | 17924 | 29439     | 0.18%  | 60.9%  |
| 40 | Braddock Road             | 48      | 2039  | 3429      | 1.40%  | 59.5%  |
| 41 | Stadium Armory            | 5       | 1816  | 3130      | 0.16%  | 58.0%  |
| 42 | Georgia Avenue            | 0       | 2156  | 3950      | 0.00%  | 54.6%  |
| 43 | Brookland CUA             | 10      | 3565  | 6616      | 0.15%  | 53.9%  |
| 44 | Silver Spring             | 101     | 6453  | 12484     | 0.81%  | 51.7%  |
| 45 | Benning Road              | 0       | 1488  | 2952      | 0.00%  | 50.4%  |
| 46 | Potomac Avenue            | 0       | 1487  | 3035      | 0.00%  | 49.0%  |
| 47 | Deanwood                  | 0       | 836   | 1945      | 0.00%  | 43.0%  |
| 48 | National Airport          | 0       | 2525  | 6016      | 0.00%  | 42.0%  |
| 49 | Takoma Park               | 41      | 2649  | 6335      | 0.65%  | 41.8%  |
| 50 | West Hyattsville          | 28      | 1385  | 3452      | 0.81%  | 40.1%  |
| 51 | Congress Heights          | 7       | 767   | 1951      | 0.36%  | 39.3%  |
| 52 | Forest Glen               | 23      | 759   | 2076      | 1.11%  | 36.6%  |
| 53 | White Flint               | 8       | 1559  | 4293      | 0.19%  | 36.3%  |
| 54 | East Falls Church         | 113     | 1521  | 4312      | 2.62%  | 35.3%  |
| 55 | Minnesota Avenue          | 0       | 1042  | 2977      | 0.00%  | 35.0%  |
| 56 | Twinbrook                 | 57      | 1540  | 4409      | 1.29%  | 34.9%  |
| 57 | Prince George's<br>Plaza  | 15      | 1474  | 4321      | 0.35%  | 34.1%  |
| 58 | Pentagon                  | 0       | 4447  | 14720     | 0.00%  | 30.2%  |
| 59 | Grosvenor                 | 80      | 1131  | 3877      | 2.06%  | 29.2%  |
| 60 | College Park              | 100     | 960   | 3333      | 3.00%  | 28.8%  |
| 61 | Wheaton                   | 27      | 1119  | 4759      | 0.57%  | 23.5%  |
| 62 | Capitol Heights           | 0       | 502   | 2135      | 0.00%  | 23.5%  |
| 63 | Rockville                 | 44      | 952   | 4191      | 1.05%  | 22.7%  |
| 64 | Rhode Island<br>Avenue    | 19      | 1058  | 5224      | 0.36%  | 20.3%  |
| 65 | Fort Totten               | 0       | 1146  | 6023      | 0.00%  | 19.0%  |
| 66 | Naylor Road               | 22      | 490   | 2628      | 0.84%  | 18.6%  |
| 67 | Dunn Loring               | 63      | 731   | 4468      | 1.41%  | 16.4%  |
| 68 | Suitland                  | 0       | 878   | 5461      | 0.00%  | 16.1%  |
| 69 | Van Dorn Street           | 9       | 554   | 3919      | 0.23%  | 14.1%  |
| 70 | Huntington                | 19      | 1041  | 7482      | 0.25%  | 13.9%  |
| 71 | Cheverly                  | 11      | 205   | 1530      | 0.72%  | 13.4%  |
| 72 | Anacostia                 | 0       | 847   | 7228      | 0.00%  | 11.7%  |
| 73 | Vienna                    | 136     | 1391  | 12293     | 1.11%  | 11.3%  |
| 74 | Glenmont                  | 14      | 508   | 5457      | 0.26%  | 9.3%   |
| 75 | Southern Avenue           | 0       | 441   | 4984      | 0.00%  | 8.8%   |
| 76 | New Carrollton            | 0       | 727   | 8698      | 0.00%  | 8.4%   |
| 77 | West Falls Church         | 9       | 671   | 8177      | 0.11%  | 8.2%   |
| 78 | Landover                  | 0       | 220   | 3195      | 0.00%  | 6.9%   |
| 79 | Franconia-<br>Springfield | 17      | 456   | 8591      | 0.20%  | 5.3%   |
| 80 | Addison Road              | 0       | 284   | 6013      | 0.00%  | 4.7%   |

|    | Origin Station/Mode  | Bicycle | Walk   | All modes | % Bike | % Walk |
|----|----------------------|---------|--------|-----------|--------|--------|
| 81 | Greenbelt            | 20      | 270    | 7015      | 0.29%  | 3.8%   |
| 82 | Shady Grove          | 19      | 342    | 11101     | 0.17%  | 3.1%   |
| 83 | Branch Avenue        | 10      | 48     | 5355      | 0.19%  | 0.9%   |
|    | Total                | 1991    | 393267 | 647431    |        |        |
|    | % of Total Ridership | 0.31    | 60.74  | 100       |        |        |
|    |                      |         |        |           |        |        |

# **Appendix H**

# Origin Station Sorted by % Bike Mode of Access

| ı—— | <u></u>                  | T       | 44.0 : : .                                                     |                | 1 0/   | <u> </u> |  |  |
|-----|--------------------------|---------|----------------------------------------------------------------|----------------|--------|----------|--|--|
|     |                          |         |                                                                | Station Sorted |        |          |  |  |
|     |                          |         | Bike Mode of Access (From 2002<br>WMATA Rail Passenger Survey) |                |        |          |  |  |
|     | Origin Station/Mode      | Bicycle | Walk                                                           | All modes      | % Bike | % Walk   |  |  |
| 1   | College Park             | 100     | 960                                                            | 3333           | 3.00%  | 28.8%    |  |  |
| 2   | East Falls Church        | 113     | 1521                                                           | 4312           | 2.62%  | 35.3%    |  |  |
| 3   | Grosvenor                | 80      | 1131                                                           | 3877           | 2.06%  | 29.2%    |  |  |
| 4   | Medical Center           | 88      | 3027                                                           | 4801           | 1.83%  | 63.0%    |  |  |
| 5   | Tenley Town              | 111     | 4117                                                           | 6119           | 1.81%  | 67.3%    |  |  |
| 6   | Dunn Loring              | 63      | 731                                                            | 4468           | 1.41%  | 16.4%    |  |  |
| 7   | Braddock Road            | 48      | 2039                                                           | 3429           | 1.40%  | 59.5%    |  |  |
| 8   | Twinbrook                | 57      | 1540                                                           | 4409           | 1.29%  | 34.9%    |  |  |
| 9   | Shaw Howard U            | 40      | 2571                                                           | 3326           | 1.20%  | 77.3%    |  |  |
| 10  | Forest Glen              | 23      | 759                                                            | 2076           | 1.11%  | 36.6%    |  |  |
| 11  | Vienna                   | 136     | 1391                                                           | 12293          | 1.11%  | 11.3%    |  |  |
| 12  | Virginia Square          | 31      | 2441                                                           | 2940           | 1.05%  | 83.0%    |  |  |
| 13  | Rockville                | 44      | 952                                                            | 4191           | 1.05%  | 22.7%    |  |  |
| 14  | Columbia Heights         | 56      | 4352                                                           | 5339           | 1.05%  | 81.5%    |  |  |
| 15  | Clarendon                | 29      | 2163                                                           | 2975           | 0.97%  | 72.7%    |  |  |
| 16  | Eastern Market           | 46      | 4014                                                           | 4912           | 0.94%  | 81.7%    |  |  |
| 17  | Naylor Road              | 22      | 490                                                            | 2628           | 0.84%  | 18.6%    |  |  |
| 18  | West Hyattsville         | 28      | 1385                                                           | 3452           | 0.81%  | 40.1%    |  |  |
| 19  | Silver Spring            | 101     | 6453                                                           | 12484          | 0.81%  | 51.7%    |  |  |
| 20  | Cheverly                 | 11      | 205                                                            | 1530           | 0.72%  | 13.4%    |  |  |
| 21  | Takoma Park              | 41      | 2649                                                           | 6335           | 0.65%  | 41.8%    |  |  |
| 22  | Woodley Park Zoo         | 39      | 5555                                                           | 6109           | 0.64%  | 90.9%    |  |  |
| 23  | Wheaton                  | 27      | 1119                                                           | 4759           | 0.57%  | 23.5%    |  |  |
| 24  | King Street              | 33      | 3609                                                           | 5899           | 0.56%  | 61.2%    |  |  |
| 25  | Friendship HTS           | 36      | 5679                                                           | 8892           | 0.40%  | 63.9%    |  |  |
| 26  | Rhode Island<br>Avenue   | 19      | 1058                                                           | 5224           | 0.36%  | 20.3%    |  |  |
| 27  | Congress Heights         | 7       | 767                                                            | 1951           | 0.36%  | 39.3%    |  |  |
| 28  | Mt Vernon SQ             | 7       | 1658                                                           | 1969           | 0.36%  | 84.2%    |  |  |
| 29  | Prince George's<br>Plaza | 15      | 1474                                                           | 4321           | 0.35%  | 34.1%    |  |  |
| 30  | Ballston                 | 33      | 7670                                                           | 11355          | 0.29%  | 67.5%    |  |  |
| 31  | Greenbelt                | 20      | 270                                                            | 7015           | 0.29%  | 3.8%     |  |  |
| 32  | Glenmont                 | 14      | 508                                                            | 5457           | 0.26%  | 9.3%     |  |  |
| 33  | Huntington               | 19      | 1041                                                           | 7482           | 0.25%  | 13.9%    |  |  |

|    | Origin Station/Mode       | Bicycle | Walk  | All modes | % Bike | % Walk |
|----|---------------------------|---------|-------|-----------|--------|--------|
| 34 | Van Dorn Street           | 9       | 554   | 3919      | 0.23%  | 14.1%  |
| 35 | Metro Center              | 61      | 24548 | 27548     | 0.22%  | 89.1%  |
| 36 | Capitol South             | 14      | 6200  | 6609      | 0.21%  | 93.8%  |
| 37 | Franconia-<br>Springfield | 17      | 456   | 8591      | 0.20%  | 5.3%   |
| 38 | Crystal City              | 25      | 10640 | 13168     | 0.19%  | 80.8%  |
| 39 | Branch Avenue             | 10      | 48    | 5355      | 0.19%  | 0.9%   |
| 40 | White Flint               | 8       | 1559  | 4293      | 0.19%  | 36.3%  |
| 41 | Union Station             | 53      | 17924 | 29439     | 0.18%  | 60.9%  |
| 42 | Shady Grove               | 19      | 342   | 11101     | 0.17%  | 3.1%   |
| 43 | Farragut North            | 44      | 24214 | 26202     | 0.17%  | 92.4%  |
| 44 | Dupont Circle             | 39      | 20433 | 24040     | 0.16%  | 85.0%  |
| 45 | Stadium Armory            | 5       | 1816  | 3130      | 0.16%  | 58.0%  |
| 46 | Brookland CUA             | 10      | 3565  | 6616      | 0.15%  | 53.9%  |
| 47 | Cleveland Park            | 8       | 4637  | 5474      | 0.15%  | 84.7%  |
| 48 | U Street                  | 5       | 3167  | 3744      | 0.13%  | 84.6%  |
| 49 | Waterfront                | 5       | 3340  | 3814      | 0.13%  | 87.6%  |
| 50 | Archives-Navy Mem         | 10      | 7310  | 7817      | 0.13%  | 93.5%  |
| 51 | Bethesda                  | 12      | 6880  | 9635      | 0.12%  | 71.4%  |
| 52 | Van Ness                  | 8       | 5617  | 6557      | 0.12%  | 85.7%  |
| 53 | West Falls Church         | 9       | 671   | 8177      | 0.11%  | 8.2%   |
| 54 | McPherson SQ              | 18      | 15404 | 16700     | 0.11%  | 92.2%  |
| 55 | Farragut West             | 24      | 22748 | 24714     | 0.10%  | 92.0%  |
| 56 | Rosslyn                   | 13      | 10921 | 15527     | 0.08%  | 70.3%  |
| 57 | Federal Center            | 4       | 4550  | 4830      | 0.08%  | 94.2%  |
| 58 | Pentagon City             | 11      | 9060  | 14196     | 0.08%  | 63.8%  |
| 59 | Foggy Bottom              | 13      | 18673 | 21857     | 0.06%  | 85.4%  |
| 60 | Judiciary SQ              | 0       | 9480  | 10201     | 0.00%  | 92.9%  |
| 61 | Federal Triangle          | 0       | 10591 | 11489     | 0.00%  | 92.2%  |
| 62 | Court House               | 0       | 6373  | 6954      | 0.00%  | 91.6%  |
| 63 | Smithsonian               | 0       | 11808 | 13409     | 0.00%  | 88.1%  |
| 64 | Gallery Place             | 0       | 12260 | 14198     | 0.00%  | 86.4%  |
| 65 | Arlington Cemetery        | 0       | 1479  | 1797      | 0.00%  | 82.3%  |
| 66 | Navy Yard                 | 0       | 2602  | 3173      | 0.00%  | 82.0%  |
| 67 | L'Enfant Plaza            | 0       | 18021 | 22716     | 0.00%  | 79.3%  |
| 68 | Eisenhower Avenue         | 0       | 1051  | 1447      | 0.00%  | 72.6%  |
| 69 | Georgia Avenue            | 0       | 2156  | 3950      | 0.00%  | 54.6%  |
| 70 | Benning Road              | 0       | 1488  | 2952      | 0.00%  | 50.4%  |
| 71 | Potomac Avenue            | 0       | 1487  | 3035      | 0.00%  | 49.0%  |
| 72 | Deanwood                  | 0       | 836   | 1945      | 0.00%  | 43.0%  |
| 73 | National Airport          | 0       | 2525  | 6016      | 0.00%  | 42.0%  |
| 74 | Minnesota Avenue          | 0       | 1042  | 2977      | 0.00%  | 35.0%  |
| 75 | Pentagon                  | 0       | 4447  | 14720     | 0.00%  | 30.2%  |
| 76 | Capitol Heights           | 0       | 502   | 2135      | 0.00%  | 23.5%  |
| 77 | Fort Totten               | 0       | 1146  | 6023      | 0.00%  | 19.0%  |
| 78 | Suitland                  | 0       | 878   | 5461      | 0.00%  | 16.1%  |

|    | Origin Station/Mode  | Bicycle | Walk   | All modes | % Bike | % Walk |
|----|----------------------|---------|--------|-----------|--------|--------|
| 79 | Anacostia            | 0       | 847    | 7228      | 0.00%  | 11.7%  |
| 80 | Southern Avenue      | 0       | 441    | 4984      | 0.00%  | 8.8%   |
| 81 | New Carrollton       | 0       | 727    | 8698      | 0.00%  | 8.4%   |
| 82 | Landover             | 0       | 220    | 3195      | 0.00%  | 6.9%   |
| 83 | Addison Road         | 0       | 284    | 6013      | 0.00%  | 4.7%   |
|    | Total                | 1991    | 393267 | 647431    |        |        |
|    | % of Total Ridership | 0.31    | 60.74  | 100       |        |        |

# **Appendix I**

## Bicycle Lockers and Racks at Metro Stations

#### BICYCLE LOCKERS AND RACKS AT OR NEAR METRO STATIONS

| STATION                              | HIDIODICTION     | TOTAL<br>LOCKERS | USED    |              | TOTAL<br>RACKS |
|--------------------------------------|------------------|------------------|---------|--------------|----------------|
| Addison Road-Seat                    | JURISDICTION     | LOCILLIS         | LOCKERS | PERCENT      | 18             |
| Pleasant                             | D' C             |                  |         |              | 18             |
| Anacostia                            | Prince George's  | 8                |         | <b>7</b> 00/ | 13             |
|                                      | DC               | 0                | 4       | 50%          | 13             |
| Archives-Navy Mem'l-<br>Penn Quarter | DC               |                  |         |              |                |
| Arlington Cemetery                   | Arlington County |                  |         |              |                |
| Ballston-MU                          | Arlington County |                  |         |              | 54             |
| Benning Road                         | DC               |                  |         |              | 4              |
| Bethesda                             | Montgomery       | 44               | 43      | 98%          | 48             |
| Braddock Road                        | Alexandria       | 12               | 11      | 92%          | 46             |
| Branch Ave                           | Prince George's  | 24               | 5       | 21%          | 10             |
| Brookland-CUA                        | DC               | 16               | 9       | 56%          | 10             |
| Capitol Heights                      | Prince George's  |                  |         |              | 6              |
| Capitol South                        | DC               |                  |         |              |                |
| Cheverly                             | Prince George's  |                  |         |              | 34             |
| Clarendon                            | Arlington County | 6                | 5       | 83%          | 12             |
| Cleveland Park                       | DC               | 12               | 12      | 100%         | 16             |
| College Park-U of Md                 | Prince George's  | 40               | 17      | 43%          | 89             |
| Columbia Heights                     | DC               | 12               | 4       | 33%          | 4              |
| Congress Heights                     | Prince George's  | 12               | 2       | 17%          | 10             |
| Court House                          | Arlington County |                  |         |              | 20             |
| Crystal City                         | Arlington County |                  |         |              | 10             |
| Deanwood                             | DC               |                  |         |              | 6              |
| Dunn Loring-Merrifield               | Fairfax County   | 34               | 22      | 65%          | 40             |
| Dupont Circle                        | DC               | 12               | 7       | 58%          | 16             |
| East Falls Church                    | Arlington County | 36               | 23      | 64%          | 88             |
| Eastern Market                       | DC               | 20               | 17      | 85%          |                |
| Eisenhower Ave                       | Alexandria       | 6                | 4       | 67%          | 10             |
| Farragut North                       | DC               |                  |         |              | 8              |
| Farragut West                        | DC               |                  |         |              | 4              |

| STATION                                   |                  | TOTAL<br>LOCKERS | USED    |         | TOTAL<br>RACKS |
|-------------------------------------------|------------------|------------------|---------|---------|----------------|
|                                           | JURISDICTION     | LUCKERS          | LOCKERS | PERCENT | KACKS          |
| E 1 1C + CW                               |                  |                  |         |         | 2              |
| Federal Center SW                         | DC               |                  |         |         | 2              |
| Federal Triangle                          | DC               | 20               |         |         | 20             |
| Foggy Bottom-GWU                          | DC               | 20               | 11      | 55%     | 10             |
| Forest Glen                               | Montgomery       | 16               | 13      | 81%     | 42             |
| Fort Totten                               | DC               | 6                | 1       | 17%     | 10             |
| Franconia-Springfield                     | Fairfax County   | 20               | 16      | 80%     | 37             |
| Friendship Heights                        | DC               | 22               | 21      | 95%     | 44             |
| Gallery Pl-Chinatown                      | DC               |                  |         |         |                |
| Georgia Ave-Petworth                      | DC               | 12               | 1       | 8%      |                |
| Glenmont                                  | Montgomery       | 48               | 17      | 35%     | 36             |
| Greenbelt                                 | Prince George's  | 52               | 38      | 73%     | 60             |
| Grosvenor-Strathmore                      | Montgomery       | 30               | 22      | 73%     | 40             |
| Huntington                                | Fairfax County   | 12               | 7       | 58%     | 34             |
| Judiciary Sq                              | DC               |                  |         |         | 13             |
| King Street                               | Alexandria       | 20               | 10      | 50%     | 34             |
| L'Enfant Plaza                            | DC               |                  |         |         |                |
| Landover                                  | Prince George's  | 8                | 1       | 13%     | 26             |
| Largo Town Center                         | Prince George's  | 48               | 4       | 8%      | 9              |
| McPherson Sq                              | DC               |                  |         |         | 1              |
| Medical Center                            | Montgomery       | 38               | 34      | 89%     | 88             |
| Metro Center                              | DC               |                  |         |         | 4              |
| Minnesota Ave                             | DC               | 4                | 0       | 0%      | 8              |
| Morgan Boulevard                          | Prince George's  | 40               | 0       | 0%      | 9              |
| Mt Vernon Sq/7th St-<br>Convention Center | DC               |                  |         |         | 6              |
| Navy Yard                                 | DC               |                  |         |         | 12             |
| Naylor Road                               | Prince George's  | 4                | 0       | 0%      | 10             |
| New Carrollton                            | Prince George's  | 16               | 9       | 56%     | 18             |
| New York Ave-Florida                      | Timee George's   | 28               |         | 3070    | 10             |
| Ave-Gallaudet U                           | DC               |                  | 3       | 11%     |                |
| Pentagon                                  | Arlington County |                  |         |         | 6              |
| Pentagon City                             | Arlington County | 22               | 13      | 59%     | 8              |
| Potomac Ave                               | DC               |                  |         |         | 21             |
| Prince George's Plaza                     | Prince George's  | 24               | 4       | 17%     | 40             |
| Rhode Island Ave-<br>Brentwood            | DC               |                  |         |         | 14             |

| STATION             | JURISDICTION     | TOTAL<br>LOCKERS | USED<br>LOCKERS | PERCENT | TOTAL<br>RACKS |
|---------------------|------------------|------------------|-----------------|---------|----------------|
|                     |                  |                  |                 |         |                |
| Rockville           | Montgomery       | 40               | 30              | 75%     | 69             |
| Ronald Reagan       |                  |                  |                 |         | 18             |
| Washington National |                  |                  |                 |         |                |
| Airport             | Arlington County |                  |                 |         |                |
| Rosslyn             | Arlington County |                  |                 |         | 20             |
| Shady Grove         | Montgomery       | 60               | 34              | 57%     | 32             |
| Shaw-Howard U       | DC               |                  |                 |         |                |
| Silver Spring       | Montgomery       | 30               | 26              | 87%     | 26             |
| Smithsonian         | DC               |                  |                 |         | 2              |
| Southern Ave        | Prince George's  | 40               | 0               | 0%      | 14             |
| Stadium-Armory      | DC               |                  |                 |         |                |
| Suitland            | Prince George's  | 20               | 0               | 0%      | 10             |
| Takoma              | DC               | 60               | 48              | 80%     | 42             |
| Tenleytown-AU       | DC               | 20               | 10              | 50%     | 20             |
| Twinbrook           | Montgomery       | 26               | 5               | 19%     | 68             |
| U St/African-Amer   |                  |                  |                 |         |                |
| Civil War           |                  |                  |                 |         |                |
| Memorial/Cardozo    | DC               |                  |                 |         |                |
| Union Station       | DC               |                  |                 |         | 23             |
| Van Dorn Street     | Alexandria       | 6                | 1               | 17%     | 20             |
| Van Ness-UDC        | DC               | 8                | 3               | 38%     | 9              |
| Vienna/Fairfax-GMU  | Fairfax County   | 56               | 46              | 82%     | 54             |
| Virginia Sq-GMU     | Arlington County | 32               | 25              | 78%     | 12             |
| Waterfront-SEU      | DC               |                  |                 |         |                |
| West Falls Church-  |                  | 22               |                 |         | 40             |
| VT/UVA              | Fairfax County   |                  | 16              | 73%     |                |
| West Hyattsville    | Prince George's  | 36               | 21              | 58%     | 50             |
| Wheaton             | Montgomery       | 20               | 13              | 65%     | 37             |
| White Flint         | Montgomery       | 20               | 11              | 55%     | 32             |
| Woodley Park-       |                  |                  |                 | 2270    | 8              |
| Zoo/Adams Morgan    | DC               |                  |                 |         |                |
|                     |                  | 1280             |                 |         | 1858           |

#### NOTES:

Blank spaces indicate a value of zero.

All lockers listed are owned by the Washington Metropolitan Area Transit Authority (WMATA). Locker usage data is current as of May 23, 2006, and are subject to change.

| Totals include racks not owned by WMATA; such racks are located within 200 feet of a station entrance. |
|--------------------------------------------------------------------------------------------------------|
| Locker and rack totals are current as of May 22, 2006, and are subject to change.                      |
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|                                                                                                        |

#### **Appendix J**

#### Links and Resources

**ADC Regional Bicycle Map** 

www.adcmap.com

Alexandria Rideshare

www.alexride.org

BikeArlington

www.bikearlington.com

Arlington bicycle information.

**BikeWashington** 

www.bikewashington.org

Bike trails and routes in the Washington region, clubs, and organized rides.

**Coalition for Smarter Growth** 

www.smartergrowth.net

An advocacy group for transit-oriented development in the Washington region.

**College Park Area Bicycle Coalition** 

www.cpabc.org

Advocacy group for bicycling in the College Park, MD area.

League of American Bicyclists

1612 K Street NW, Suite 800 Washington, D.C. 20006 (202) 822-1333 www.bikeleague.org

LAB is a national cycling advocacy group founded in 1880.

National Center for Bicycling and Walking

www.bikewalk.org

A national advocacy group for walking and bicycling.

Metropolitan Washington Council of Governments

777 North Capitol Street NE, Suite 300

Washington, D.C. 20002 (202) 962-3200

www.mwcog.org

www.commuterconnections.org

Metropolitan planning organization. Offers ridematching and Guaranteed Ride Home services through its Commuter Connections program, publishes a Bike to Work Guide.

**Pedestrian and Bicycle Information Center** 

www.bicyclinginfo.org www.walkinginfo.org

National clearinghouse for information on walking and bicycling.

**Safe Routes to School** 

www.saferoutesinfo.org

**United States Access Board** 

www.access-board.com

A federal agency dedicated to design that is accessible to persons with disabilities.

Virginia Bicycling Federation

www.vabike.org

Advocacy group for Virginia bicycling.

WalkArlington

www.walkarlington.com

Arlington walking information.

Washington Area Bicyclist Association

1803 Connecticut Avenue NW, 3<sup>rd</sup> Floor Washington, D.C. 20009 (202) 518-0524 www.waba.org

Advocacy group for cycling in the Washington region. Runs a pedestrian and bicycle safety education program.

#### Appendix K

#### Glossary of Terms

**BIKE-ON-RAIL PERMIT** 

Permit issued by the Washington Metropolitan Area Transit Authority permitting transportation of bicycles on Metrorail trains during night and weekend service periods. (no longer required)

BICYCLE LANE (BIKE LANE)

NE) A portion of a roadway which has been designated by striping, signing and pavement markings for the preferential or exclusive use of bicyclists. Consists of a 4'-6' lane in each direction, with bicycle traffic moving in the same direction as motorized traffic.

BICYCLE PATH (BIKE PATH)

YH) A bikeway physically separated from motorized vehicular traffic by an open space or barrier and either within the highway right of way or within an independent right of way.

**BICYCLE PARKING** 

An area dedicated and designed specifically for storing and locking a bicycle. Includes bicycle racks and bicycle lockers.

BICYCLE ROUTE (BIKE ROUTE)

A segment of a system of bikeways designated by the jurisdiction with appropriate directional and informational markers, with or without specific bicycle route numbers.

**BIKEWAY** 

Any road, path, or way which in some manner is specifically designated as being open to bicycle travel, regardless or whether such facilities are designated for the exclusive use of bicycles or are to be shared with other transportation modes.

CLASS I, II or III BIKEWAY

Terms sometimes used to describe different types of bicycle facilities. Class I is a shared-use path, Class II a bicycle lane, and Class III a shared roadway. However, Since there is some disagreement on the exact meaning of these terms, the AASHTO terms (listed above) should be used.

GREENWAY A linear park or recreation facility of limited width, located

along the length of an existing or former public utility

or railroad right-of-way, or along a stream bed.

HIKER-BIKER TRAIL A paved path designed for use by both pedestrians and

bicyclists, which is completely separated from vehicular

traffic.

METROPOLITAN STATISTICAL AREA A core area containing a substantial population nucleus, together with adjacent communities having a high

degree of social and economic integration with that core. Metropolitan statistical areas comprise one or more entire counties. They are used by the United States Census

for the purpose of tabulating, enumerating and

publishing data.

RAILS-TO-TRAILS CONSERVANCY A national membership organization that works to facilitate the acquisition of abandoned railroad lines

for use in creating bicycle and pedestrian trails and linear

parks.

RAIL-TRAIL A Shared-Use Path, either paved or unpaved, built within

the right-of-way of an existing or former railroad.

REGIONAL ACTIVITY CENTER A set of locations within the National Capital

Region Transportation Planning Board planning area identified by the Council of Government's Planning Director's Technical Advisory Committee as employment centers of regional significance. Five types of Regional Activity Center have been designated, with different employment and residential density criteria for each.

REGIONAL ACTIVITY CLUSTER An employment center adjacent to a Regional

Activity Center, with a lower density than a Regional

**Acitivity Center** 

SHARED ROADWAY A roadway which is open to both bicycle and motor vehicle

travel. This may be an existing roadway, street with wide

curb lanes, or road with paved shoulders.

SHARED-USE PATH A bikeway, at least 8' in width, physically separated from

motorized vehicular traffic by an open space or barrier and

either within the highway right-of-way or within an independent right-of-way. Shared-Use Paths may also be used by pedestrians, skaters, wheelchair users, joggers, and

other non-motorized users.

SIDE-PATH A shared-used path built within the right-of-way of a non

limited-access highway.

The portion of a street or highway right-of-way, at least 4' SIDEWALK

in width, designed for preferential or exclusive use by

pedestrians.

SIGNED SHARED

A shared roadway that has been designated as a preferred route for bicycle use using warning, ROADWAY

directional, and informational signage.

The portion of a roadway for the movement of vehicles, TRAVELED WAY

exclusive of shoulders.

UNIFORM VEHICLE CODE The standards for traffic regulations recommended for

adoption by state and local jurisdictions, as prepared by the

National Committee on Uniform Traffic Laws and

Ordinances.

WASHINGTON AREA **BICYCLIST ASSOCIATION**  A regional membership organization devoted to improving bicycling opportunities and promoting bicycle usage in the metropolitan Washington area.

#### Appendix L

#### Glossary of Acronyms

AASHTO American Association of Highway Transportation Officials

ADA Americans with Disabilities Act
AFA Access for All Advisory Committee

CLRP Financially Constrained Long-Range Transportation Plan
CMAQ Congestion Mitigation and Air Quality Improvement Program

COG Metropolitan Washington Council of Governments
DDOT District of Columbia Department of Transportation

FHWA Federal Highway Administration FTA Federal Transit Administration

ISTEA Intermodal Surface Transportation Efficiency Act of 1991

MDOT Maryland Department of Transportation
MPO Metropolitan Planning Organization

MSA Metropolitan Statistical Area MTA Maryland Transit Administration

MUTCD Manual on Uniform Traffic Control Devices NCPC National Capital Planning Commission

NVTC Northern Virginia Transportation Commission

SAFETEA-LU Safe, Accountable, Flexible, Efficient Transportation Equity Act:

Legacy for Users

SHA Maryland State Highway Administration

SOV Single-Occupant Vehicle SRTS Safe Routes to School

TCSP Transportation and Community and System Preservation Pilot

Program

TEA-21 Transportation Equity Act for the 21st Century

TIP Transportation Improvement Program

TPB National Capital Region Transportation Planning Board

US DOT U.S. Department of Transportation VDOT Virginia Department of Transportation

VMT Vehicle-Miles Traveled

WABA Washington Area Bicyclist Association

WMATA Washington Metropolitan Area Transit Authority

# **Appendix M**Priorities 2000 Greenways

Regional priority, local priority, and selected existing greenways from *Priorities 2000: Metropolitan Washington Greenways* 

| Regional Priority Projects                    | <b>Local Priority Projects</b>                       | Selected Existing<br>Greenways       |
|-----------------------------------------------|------------------------------------------------------|--------------------------------------|
| Accotink Greenway                             | 9. Ballenger Creek<br>Greenway                       | A. W&OD Trail                        |
| 2. Anacostia Greenway                         | 10 Broad Run/Rocky<br>Branch Greenway                | B. Suitland<br>Parkway<br>Trail      |
| 3. Fort Circle Greenway                       | 11. Collington Branch<br>Greenway                    | C. Rock Creek<br>Parkway             |
| 4. Metropolitan Branch<br>Trail               | 12. Cross County Trail                               | D. Mount<br>Vernon Trail             |
| 5. Monocacy River<br>Greenway                 | 13. DC Trolley<br>Trail/Rhode Island<br>Avenue Trail | E. Catoctin-<br>Gambrill<br>Greenway |
| 6. Northwest Branch<br>Greenway               | 14. Eisenhower<br>Avenue Greenway                    | F. Capital<br>Crescent<br>Trail      |
| 7. Potomac Heritage<br>National Scenic Trail  | 15. Henson Creek<br>Greenway                         | G. C&O Canal                         |
| 8. Washington, Baltimore<br>& Annapolis Trail | 16. Patuxtent Regional<br>Greenway                   | H. Appalachian<br>Trail              |

| Regional Priority Projects | Local Priority Projects                    | Selected Existing<br>Greenways |
|----------------------------|--------------------------------------------|--------------------------------|
|                            | 17. Seneca Greenway                        | I. Northwest<br>Branch Trail   |
|                            | 18. Suitland Parkway<br>Trail              |                                |
|                            | 19. Watts Branch<br>Greenway               |                                |
|                            | 20. W&OD<br>Connection to<br>White's Ferry |                                |

Metropolitan Washington Greenways Regional Priority Projects Local Priority Projects Selected Existing Greenways FREDERICK COUNTY Surface Water Federal Land Open Water Public Open Space Private Open Space MONTGOMERY COUNTY 20 COUNTY FAIRFAX COUNTY PRINCE GEORGE PRINCE WILLIAM

#### **Appendix N**

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