

# Pedestrian and Bicycle Facilities Assessment for the City of McCaysville



**Prepared by  
North Georgia Regional Development Center  
April 2008**

The contents of this publication reflect the views of the author, who is responsible for the facts and accuracy of data presented herein. The opinions, findings, and conclusions in this publication are those of the author and do not necessarily reflect the official views or policies of those of the Department of Transportation, State of Georgia or Federal Highway Administration. This publication does not constitute a standard, specification, or regulation.

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## **Introduction**

**Figure 1: Fannin Co. Location**



Source: NGRDC

In June 2005, the North Georgia RDC submitted to the Georgia Department of Transportation a Regional Bicycle and Pedestrian Plan as a component of the transportation-planning contract between the two agencies. This plan describes an inventory of existing bicycle and pedestrian facilities, and recommends a variety of improvements including new bicycle routes throughout the region and new sidewalk locations in several communities. The sidewalk recommendations are very general however; they indicate only where existing sidewalks are presently located and where new sidewalks may be desirable to enable walking as an alternative transportation opportunity to get to shopping, schools, parks and other local activity centers.

The purpose of this document is to evaluate more closely the condition of existing pedestrian facilities and bicycle facilities in the city of McCaysville, to determine how walkable and bikeable the city is, and to assist local officials in developing an improvement program.

According to the State of Georgia, a pedestrian is “*any person who is afoot (GLC 40-1-1)*.”<sup>1</sup> All trips begin and end on foot in the form of a pedestrian trip; and 39% of all trips less than one mile are pedestrian trips. For this reason, pedestrian facilities are an essential component of an integrated transportation system. Safety, security, efficient mobility, attractive environments, and accessibility are primary concerns for providing pedestrian facilities.

To that end, the following sections describe existing pedestrian facilities; provide an analysis for improvements to those facilities; and, finally offer construction standards for those improvements.

**Figure 2: Fannin County**



Source: [www.fannincounty.georgia.gov](http://www.fannincounty.georgia.gov)

<sup>1</sup> GDOT CSD Online Manual; Manual Resources; Glossary of Acronyms and Terms. Retrieved January 14, 2008 from <http://www.dot.state.ga.us/csd/resources/glossary/glossaryPR.html>

## **Existing Pedestrian Facilities and Conditions**

### **Inventory of Existing Sidewalks**

According to the Georgia Department of Transportation (GDOT), a sidewalk is “a firm, stable surface constructed of non-penetrable material for use by pedestrians that runs continuous [sic] from one property to another; usually located parallel to a vehicular thoroughfare between the curb line or lateral line of a roadway and the adjacent property line.”<sup>2</sup> Sidewalks are not limited to use by walkers, they are also devoted to other non-motorized transportation users such as joggers, bicyclists, skaters, and individuals traveling in wheelchairs.

McCaysville is a small town in northern Fannin County with a rural setting, so the sidewalk to roadway ratio is relatively small when compared to available sidewalks in an urban setting. Sidewalks are primarily limited to high traffic areas in residential neighborhoods, near schools, and within the downtown business district. The number, condition, and material makeup of sidewalks are the subject for the inventory that follows.

In 2004, as a component of a contract with GDOT, NGRDC staff collected GIS centerline data for all existing sidewalks in McCaysville. In all, over 14,859 linear feet of sidewalks currently exist within the McCaysville city limits. Nearly all of the sidewalks (97.5%) are made of concrete at a width of five (5) feet; about 365 constructed linear feet (2.5%) are of wood. These wood sidewalk sections lie on Bridge Street, on either side of the bridge spanning the Toccoa River. As shown on the following maps, solid lines indicate the presence of sidewalks. Breaks in the lines indicate street crossings and curb cutouts at intersections and driveways.

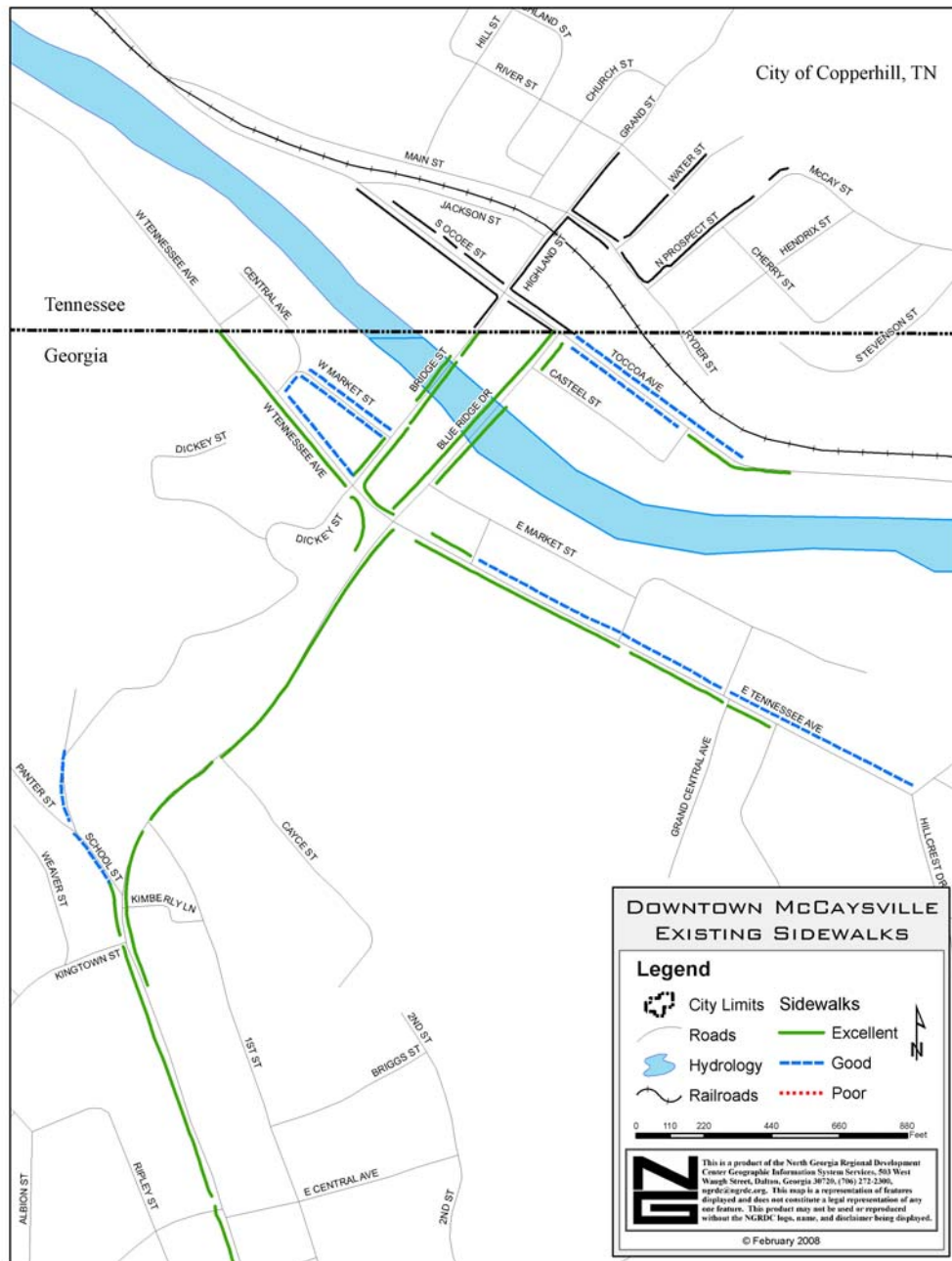
### **Sidewalk Inventory**

- ✓ 14,859 linear feet of sidewalks
- ✓ State Route 5 – Blue Ridge Drive pedestrian facilities were updated during a 2006 TE project
- ✓ New sidewalk construction has also recently taken place along Tennessee Avenue
- ✓ Nearly all sidewalks are at street grade levels
- ✓ All new sidewalks meet ADA requirements
- ✓ Older sidewalks are too narrow
- ✓ Sidewalk facilities are provided primarily in the downtown, adjacent neighborhoods, and on State Route 5

<sup>2</sup> The Georgia Department of Transportation. 2002. GPS Data Collection Guidelines and Standards: A Manual for Georgia Service Delivery Regions and Regional Development Centers.

Map 1 shows that there is a good network of sidewalks on one or both sides of streets surrounding the downtown area. These facilities are new, safety compliant, and attractive as shown in the photograph on the title page taken looking northward along Blue Ridge Drive (State Route 5). Blue Ridge Drive was revitalized using GDOT Transportation Enhancement project money in 2006. The City has also recently installed new concrete sidewalks along Tennessee Avenue as well.

**Map 1: Existing Sidewalks in Downtown McCaysville**

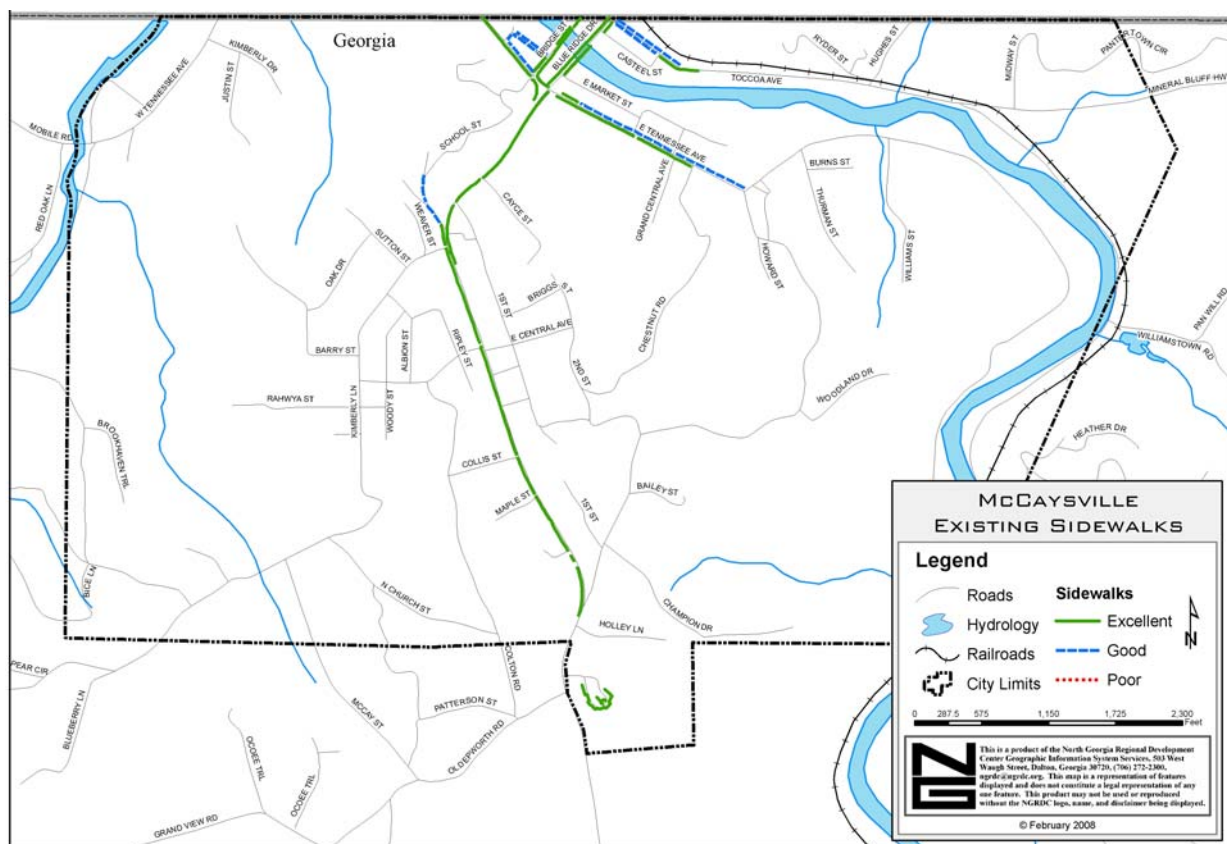


Source: NGRDC



As seen on the map, the City of Copperhill, Tennessee is located adjacent to McCaysville, separated only by the Ocoee River (Toccoa River in Georgia). In performing this study, the RDC also mapped sidewalk facilities in Copperhill. Even though each city may have a different government and a state line separating them, they function as a whole community. Copperhill has a well laid out network of sidewalk facilities stemming from its main intersection of Blue Ridge Ave. (Georgia State Route 5) and S. Ocoee St. (Tennessee State Route 68) this intersection has well marked crosswalks and excellent pedestrian facilities. However, the sidewalks in the residential sections of Copperhill are very narrow and many are in need of repair.

## Map 2: Other Sidewalk Locations in McCaysville



Source: NGRDC

Map 2 also shows existing sidewalk facilities beyond the downtown area in McCaysville. Additional sidewalk facilities lie along the entire stretch of State Route 5 within the city, along School Street near a former elementary school, and in a residential neighborhood in the southern portion of the city. As seen, the majority of streets in the outlying residential areas of McCaysville area do not have sidewalk facilities.

During the data collection, process NGRDC staff utilized GDOT's *GPS Data Collection and Standards Manual* to determine the approximate condition of the sidewalk.<sup>3</sup> Sidewalks were rated as "Excellent," "Good," or "Poor."

NGRDC staff determined that most of the existing sidewalks within the community were determined to be in "Excellent" condition. The "Excellent" criteria is defined as a sidewalk having outstanding accessibility, attention to detail, intact surfaces, sensitivity to context – in short, referring to the feeling that the walk has "gone above and beyond" required standards.

NGRDC staff determined that 74.6 percent (11,090 linear feet) of existing sidewalk facilities classify as excellent. These are located along State Route 5, in the downtown area primarily along Blue Ridge Drive, Tennessee Avenue, Dickey Street, School Street, and in a residential area in the south part of the city.

About 3,769 linear feet (25.4%) of sidewalks located in McCaysville were determined to be in the "Good" category. The criteria for meeting a "Good" classification is defined as having intact walkways easily passable for pedestrians, cyclists, skaters, walkers with strollers, and pedestrians traveling by wheelchair. These sidewalks are located generally along the downtown streets such as Market, Bridge, Toccoa Streets, as well as sections of Tennessee Avenue.

There are no sidewalks classified as being in "Poor" condition. A "Poor" condition is described as containing the presence of large cracks, poor provision for drainage, the existence of overgrown or excessive vegetation, or bulging due to the presence of a tree's root system. In short, the walk is in such disrepair that reasonable passage by pedestrian traffic is uncomfortable, difficult, or impossible.

## Sidewalk Condition Ratings

### Excellent:

- ✓ Outstanding accessibility
- ✓ Attention to detail
- ✓ Intact surfaces
- ✓ Sensitivity to context

### Good:

- ✓ Easily passable walkways for walkers, cyclists, wheelchairs, etc
- ✓ Intact surfaces
- ✓ No obstacles

### Poor:

- ✓ Presence of large cracks
- ✓ Poor drainage
- ✓ Existence of overgrown or excessive vegetation
- ✓ Bulging surface due to tree root networks
- ✓ Presence of disrepair
- ✓ Uncomfortable
- ✓ Difficult
- ✓ Impassable

Sidewalks in McCaysville rate as being either in the "excellent" or "good" category.

<sup>3</sup> The Georgia Department of Transportation. 2002. *GPS Data Collection Guidelines and Standards: A Manual for Georgia Service Delivery Regions and Regional Development Centers*.

The most noticeable item the RDC staff found was that most of the sidewalks are on the same grade level as the street and contain little or no separation between the vehicular traffic on the roadway and the pedestrian traffic on the sidewalks. According to the Federal Highway Administration (FHWA), the American Association of State Highway and Transportation Officials (AASHTO), and the Americans with Disabilities Act Accessibility Guidelines (ADAAG), there should be a minimum buffer zone between vehicular and pedestrian traffic, typically being a grassy tree-lined space of about six (6) feet.

Separated or detached sidewalks are the most appealing for pedestrian safety and sidewalk design, particularly in residential areas. This detached design allows for a parkway distinction by adding a tree-lined planting strip and or an on-street parking area to separate pedestrians traveling on the sidewalks by safely keeping them away from the dangerous velocity of vehicular traffic on the roadway. Adding a planting strip and/or parallel parking in some streets in McCaysville will not only add to the curbside appearance but also create a safer pedestrian atmosphere.

### **Inventory of Existing Crosswalks**

For the purpose of this study, the RDC also inventoried crosswalk locations and their conditions. Intersections where sidewalks exist at immediately opposite sides of the roadway classify as a crosswalk.

*Table 1: Crosswalk Conditions* summarizes the inventoried locations and condition of crosswalks in the city. The primary focus of the inventory was to determine if the pedestrian crosswalks were properly marked, and if they were handicapped accessible. Only three crosswalk locations have adequate crosswalk markings. Installation of these facilities was part of the Transportation Enhancement project completed in 2006. The rest of the crosswalk locations in the city do not have any markings at all. The Table also illustrates the status of curb cuts and handicapped accessibility conditions.



**Table 1: Crosswalks Conditions**

Crosswalks in McCaysville					
No.	Intersection	Street Markings	Curb Cutouts	Crosswalk Signals	Traffic Signals
1	Blue Ridge Dr. (S.R. - 5) & Tennessee Av.	Ladder/Good	Cutouts/Good	Signal/Button - working	Double Lights
2	E. Tennessee Av. & Unknown St.	None	Street Level Access	None	None
3	E. Tennessee Av. & Unknown St.	None	Street Level Access	None	None
4	E. Tennessee Av. & Grand Central Av.	None	Street Level Access	None	Stop Sign
5	E. Market St. & Grand Central Av.	None	No Sidewalks	None	None
6	E. Market St. & Unknown St.	None	No Sidewalks	None	None
7	E. Market St. & Blue Ridge Dr. (S.R. - 5)	None	Street Level Access	None	Stop Sign
8	Toccoa Av. (S.R. - 60) & Blue Ridge Dr. (S.R. - 5)	Ladder/Good	Street Level Access	None	3-Way Stop Sign
9	Blue Ridge Dr. (S.R. - 5) & Casteel St.	None	Street Level Access	None	None
10	W. Tennessee Av. & Bridge/Dickey Sts.	None	Street Level Access	None	Stop Sign
11	W. Tennessee Av. & Wilson St.	None	Street Level Access	None	Stop Sign
12	W. Market St./Central Av. & Wilson St.	None	Cutouts/Street Level Access	None	None
13	W. Market St. & Bridge St.	None	Street Level Access	None	Stop Sign
14	Blue Ridge Dr. (S.R. - 5) & Kingtown St.	Horizontal/Good	Cutouts/Street Level Access	None	Crosswalk Signage
15	Blue Ridge Dr. (S.R. - 5) & Collis St.	None	Street Level Access	None	Stop Sign
16	Blue Ridge Dr. (S.R. - 5) & Maple St.	None	Street Level Access	None	Stop Sign
17	Blue Ridge Dr. (S.R. - 5) & Station Dr.	None	Street Level Access	None	Stop Sign

Source: NGRDC

Horizontal crosswalks have a line pattern that are distinguished by lines lying at a right or 90° angle to the flow of traffic patterns, in essence forming a pedestrian pathway from one side of the street intersection to the other. *Figure 3: Horizontal Crosswalk* is a photograph of a horizontal crosswalk located at an urban intersection.

Another form of crosswalk that makes recognition easy for both pedestrians and motorists is the “ladder” marked crosswalk. It is composed of a series of broad lines placed at a parallel angle in reference to the sidewalk curbsides; another way to think about it is by noticing that the painted lines run with the flow of traffic. This ladder crosswalk: can be closed (*Figure 4*) or open (*Figure 5*) within the previously mentioned horizontal walkway lines across the roadway.

A band or stripe can consist of many different types of materials, from a simple painted line on the pavement, to a more aesthetically detailed cobble or brick pattern layout. Some contain reflective materials. Major crosswalks also typically have signage and visual/audio displays to assist pedestrians when and where it is safe to cross the roadway. Although there are only small amounts of crosswalks in McCaysville, only the major intersections contain visual markings and/or signage indicating the presence of a crosswalk for motorists and pedestrians alike.

All crosswalks that contain curb cutouts make the intersections handicap accessible and easily transitional from one side of the roadway to the other. This is a concern for pedestrian planners because many municipalities across the nation have neglected the federal requirements to replace non-compliant crosswalk curb lines. Municipalities throughout the region contain crosswalks that differ by on-site conditions such as grade, cross-slope, width and vertical clearance, as well as passing space, grates and gaps, and obstacles or protruding objects; however, the issue of handicap accessibility is unavoidable. All crosswalks must be compliant with the Americans with Disabilities Act (ADA) since its passage in 1990.

**Figure 3: Horizontal Crosswalk**



Source: [www.sacdot.com](http://www.sacdot.com)

**Figure 4: Closed Ladder Crosswalk**



Source: [www.latimesblogs.latimes.com](http://www.latimesblogs.latimes.com)

**Figure 5: Open Ladder Crosswalk**



Source: [www.cityofsacramento.org](http://www.cityofsacramento.org)

In McCaysville, only a couple crosswalks (Blue Ridge Dr. & Tennessee Ave.) are truly compliant with ADA standards. However, the great majority of crosswalks located in the city are reasonably handicap accessible because of the lack of curbs on several streets and therefore, sidewalks are already at street level grade. With these types of facilities, the community may be able to pass the technicality of ADA compliance but these situations have disadvantages in and of themselves.

## **Recommendations**

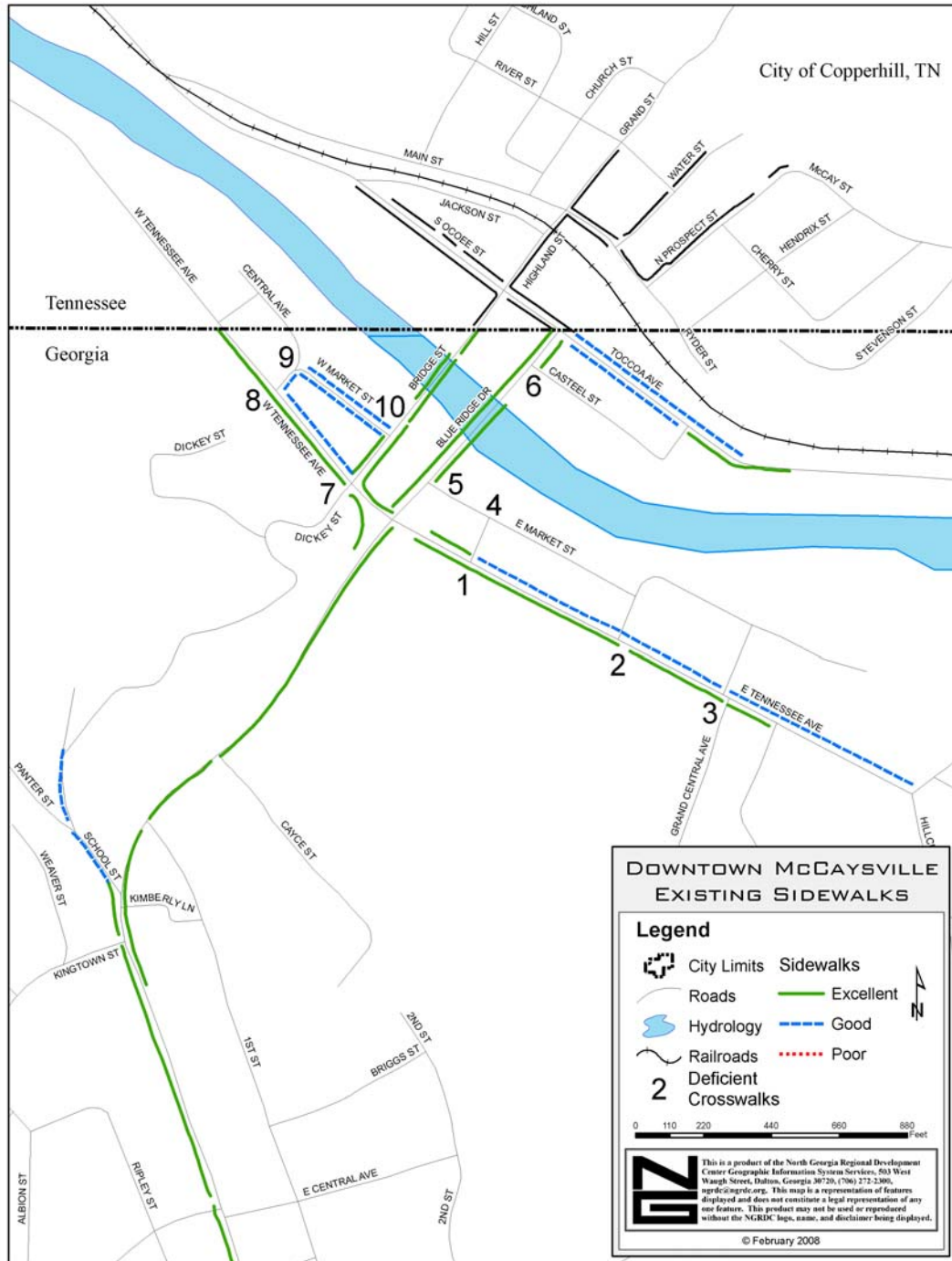
Compliance with regulatory standards, safety, and good planning are the primary focus for determining how best to improve McCaysville's pedestrian systems. With this in mind, the RDC recommends improvements in the following areas: 1) improvements to existing crosswalk and sidewalk deficiencies, and 2) adding new sidewalk facilities in neighborhoods adjacent to the downtown.

### **Crosswalk Deficiencies**

The NGRDC staff recommends that the City of McCaysville engage in a pedestrian facilities improvement program focusing on the correction of existing deficiencies. The NGRDC notes those issues in a previous section, and graphically represents these conditions on *Map 3*, below. *Table 2: Intersections with Deficient Pedestrian Crosswalks*, following the map also lists the locations and nature of each deficiency.

The primary concern with existing deficiencies is the lack of marked crosswalks at numerous roadway intersections. Because most of the crosswalks within the City of McCaysville lie at street grade level and thus do not impede wheel chair accessibility, there is no urgent need to construct curb lines and cutouts with new corner crosswalk facilities. If the city should construct curbs on these streets in the future, address proper curb cuts and handicap accessibility requirements. In the meantime, proper marking of existing pedestrian crosswalks will address the most important deficiency.

**Map 3: Deficient Crosswalks of McCaysville**



Source: NGRDC

**Table 2: Intersections with Deficient Pedestrian Crosswalks**

McCaysville Pedestrian Facilities Deficiencies			
Site		Deficiency	
Number	Intersection	Markings	Signs/Signals
1	E. Tennessee Ave. & Unknown St.	None	None
2	E. Tennessee Ave. & Unknown St.	None	None
3	E. Tennessee Ave. & Grand Central Ave.	None	Stop Sign
4	E. Market St. & Unknown St.	None	None
5	E. Market St. & Blue Ridge Dr.	None	Stop Sign
6	Casteel St. & Blue Ridge Dr.	None	None
7	W. Tennessee Ave. & Bridge St.	None	Stop Sign
8	W. Tennessee Ave. & Wilson St.	None	Stop Sign
9	W. Market St. & Wilson St.	None	None
10	W. Market St. & Bridge St.	None	Stop Sign

Source: NGRDC

According to the American Planning Association, which refers to the *Manual of Uniform Traffic Control Devices* (MUTCD), a crosswalk should be marked with “solid white lines not less than 6 inches marking both edges of the crosswalk and spaced at least 72 inches apart.”<sup>4</sup> Only a couple of crosswalks in McCaysville have been marked with distinguishable lines. These crosswalks are located primarily in the 2006 TE project area, specifically at the corner of Blue Ridge Drive and Tennessee Avenue. As indicated on *Map 3* and in *Table 2*, ten crosswalk locations do not have any crosswalk markings.

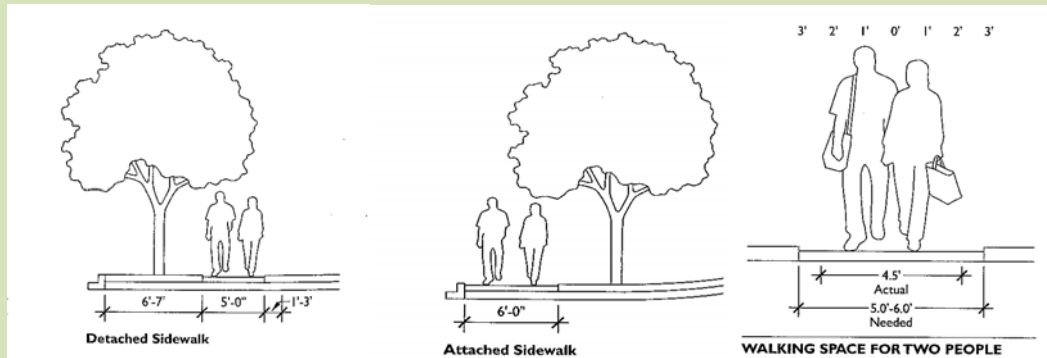
Crosswalks are quite easily retrofitted or updated to meet the recommended standards simply by painting the recommended crosswalk lines on the street, and ensuring the ADA standards.

Sidewalks that lie immediately adjacent to the roadway are another deficiency that the RDC staff has noted. The *American Planning Association's: Planning and Urban Design Standards*<sup>5</sup> manual recommends that a minimum six-foot wide sidewalk installed where it will lie immediately adjacent to the roadway. Sidewalks are to be separated from the street, the sidewalk width can be reduced to 5 feet; however, there should be at least a 6-foot planting strip between the street and the sidewalk. See the illustration below.

<sup>4</sup> American Planning Association: Planning and Urban Design Standards (Hoboken, New Jersey: John Wiley & Sons Publishing, 2006), 223.

<sup>5</sup> American Planning Association: Planning and Urban Design Standards (Hoboken, New Jersey: John Wiley & Sons Publishing, 2006), 223.

**Figure 6: Diagrams of Sidewalk Widths**



Source: American Planning Association

Minimum widths for sidewalks: Detached sidewalks should be at least 5 feet wide. Attached sidewalks should be at least 6 feet wide.

Observations of the streetscape in McCaysville leads the RDC to believe that the reasons for installing five-foot wide walkways immediately adjacent to the street may be because of topographical situations and the narrowness of street right of ways within the city. In the future, the RDC recommends that the city consider the above-recommended standards for all future pedestrian facilities planning and construction, if feasible.

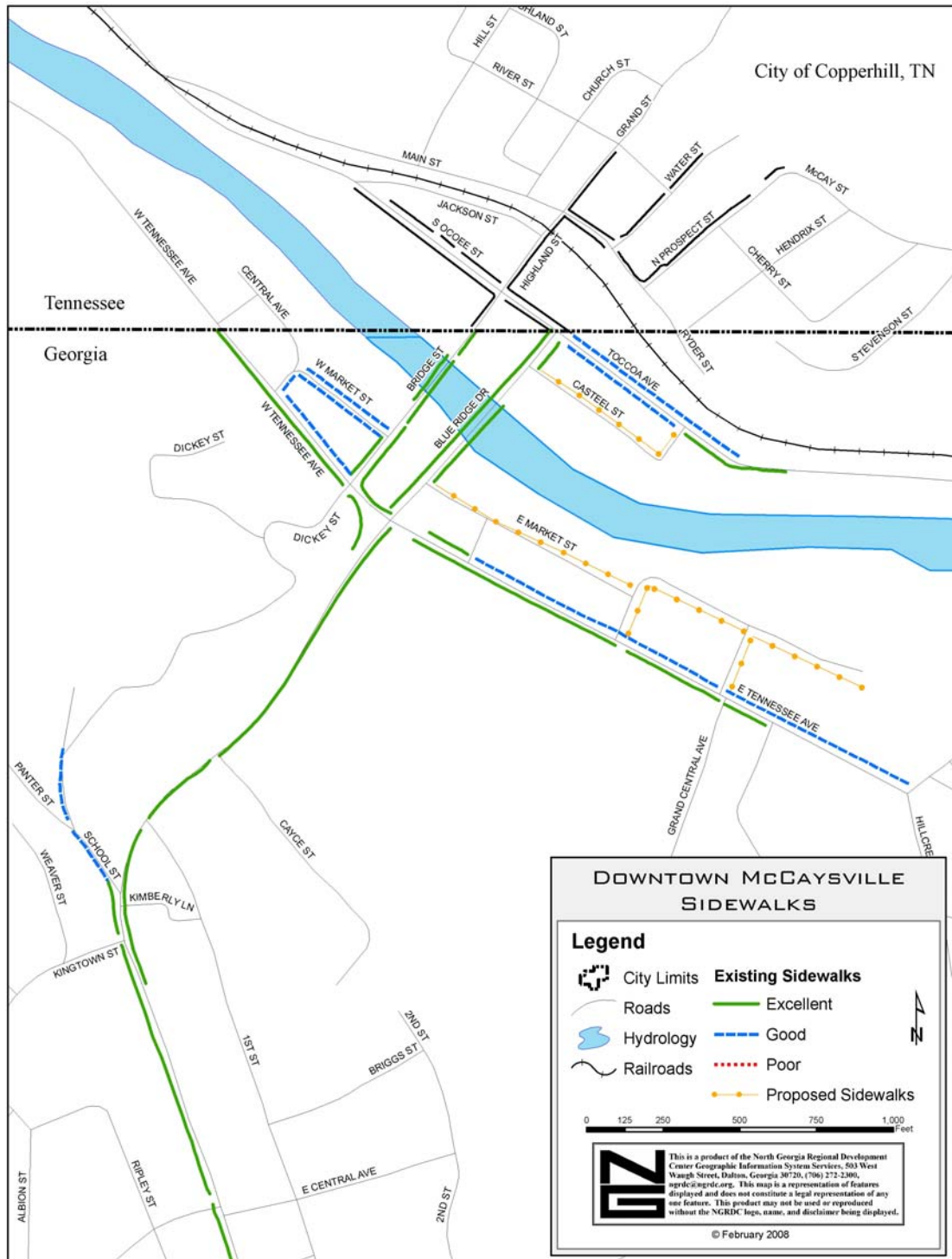
### **Additional Sidewalks**

The City has replaced a number of old sidewalk facilities in the downtown area as part of the Transportation Enhancement grant and has constructed new sidewalk facilities in recent years. This is a step in the right direction in improving pedestrian facilities in the community. The remaining existing sidewalks are also in good condition.

In the future, the city should consider adding new sidewalk facilities, particular in the residential neighborhoods adjacent to the downtown area. Good community planning encourages connectivity among neighborhoods, and between neighborhoods and downtowns and other activity centers like schools and parks. Most individuals are willing to walk at least a quarter mile, and many will consider walking up to one-half mile if it is safe. Based upon these parameters, the RDC recommends that in the short term, additional sidewalks placed on E. Market, Grand Central, Casteel, and Stardust Streets, as well as two other unknown streets in the vicinity. (See *Map 4.*)



**Map 4: Proposed Sidewalks for McCaysville**



Source: NGRDC

## Signs and Signals

NGRDC staff also observed the absence of street signs on many local streets, primarily in the neighborhood located to the east of Blue Ridge Drive. There was an absence of traffic markers such as stop or yield signs at some corners, but also there were a few streets that had no street name signs.

The USDOT-FHWA advises that, “Street name signs should be installed in urban areas at all street intersections regardless of other route signs that may be present and should be installed in rural areas to identify important roads that are not otherwise signed,” (United States Department of Transportation: Federal Highway Administration, 2003). In addition, the FHWA recommends that, “In business districts and on principal arterial streets, Street Name signs should be placed at least on diagonally opposite [street] corners. In residential areas, at least one street sign mounted at each intersection. They should be mounted with their faces parallel to the streets they name,” (United States Department of Transportation: Federal Highway Administration, 2003).

Figure 7: Street Sign Examples



Source: USDOT & FHWA<sup>6</sup>

United States Department  
of Transportation -  
Federal Highway  
Administration  
Regulations -  
*Manual of Uniform Traffic  
Control Devices for  
Streets and Highways  
(2003 ed. Revision 1  
November 2004).*

- ✓ Street signs should be installed at all intersections
- ✓ Lettering must be a minimum of 4 in. on a residential street with a speed limit of 25 mph or less
- ✓ Supplemental lettering such as street type (St., Ave., Rd., etc.) and/or section lettering (E, NW, etc.) must be a minimum of 3 in. in height
- ✓ Street signs must be retro reflective or illuminated to show same shape and color both day & night
- ✓ Street names must be white lettering on a green background
- ✓ At intersection crossroads where the same street has two different street names for each direction of travel, both street names may be labeled on the same street sign with directional arrows alongside appropriate name

<sup>6</sup> United States Department of Transportation: Federal Highway Administration. (2003). *Manual of Uniform Traffic Control Devices for Streets and Highways* (1st Edition, Revision 1: November 2004 ed., Vol. Section 2D). Washington D.C., United States of America: Federal Highway Administration.

## **Summary of Recommended Design Standards for Pedestrian Facilities**

Consider the following summary of recommended design standards when improving existing facilities or installing new facilities.

### **Pedestrian Sidewalks:**

- The minimum recommended width for all sidewalks is 5 feet.
- Sidewalks that are immediately adjacent to the street should be a minimum six feet wide.
- Sidewalks that are detached from the street should have a 6 foot raised planting area between the street and the sidewalk.
- Curb and gutters installed along major urban streets.
- Sidewalks provided on both sides of roadways, but at a minimum, all roads in urban settings should have a sidewalk located on one side.
- Allow adequate signage for pedestrians.
- Sidewalks should have a cross-slope of 1.5% to 2.0% to allow for drainage.
- Sidewalks should be well designed and laid out in all school zones.

### **Pedestrian Crosswalks:**

- All crosswalks must be ADA compliant and if curbs are present, provide a handicap accessible curb cut.
- Proper signs and signals for pedestrians and motorists indicate a pedestrian right-of-way.
- All crosswalks should be properly marked with either horizontal or ladder type designs.
- Crosswalk markings should be a minimum of 6 feet wide and have a stop bar painted on the road to indicate where motorists should stop for pedestrians.
- School zones signs and signals must be present.

### **Signs and Signals:**

- All intersections should have streets properly labeled.
- Residential streets should have at least one corner labeled by a green sign with white lettering measuring 4 inches in height.
- Larger intersections should have at least two diagonally opposite corners labeled with green street signs with white lettering measuring 4 inches in height.
- All directional, street designation and section labels may accompany street names on the same sign with a minimum 3-inch height (NW, AVE, BLVD, E, S, etc.).

- All intersections should have accompanying traffic signs or signals, such as STOP, YIELD, etc. and notification of a potential pedestrian and/or bicycle crossing.

## **Bicycle Facilities Analysis and Recommendations**

### **Existing Facilities**

Currently there are no dedicated bicycle lanes or paths in the City of McCaysville: nor are there any bicycle routes identified by signage. All cyclists currently have to ride in the road or on sidewalks at their own risk.

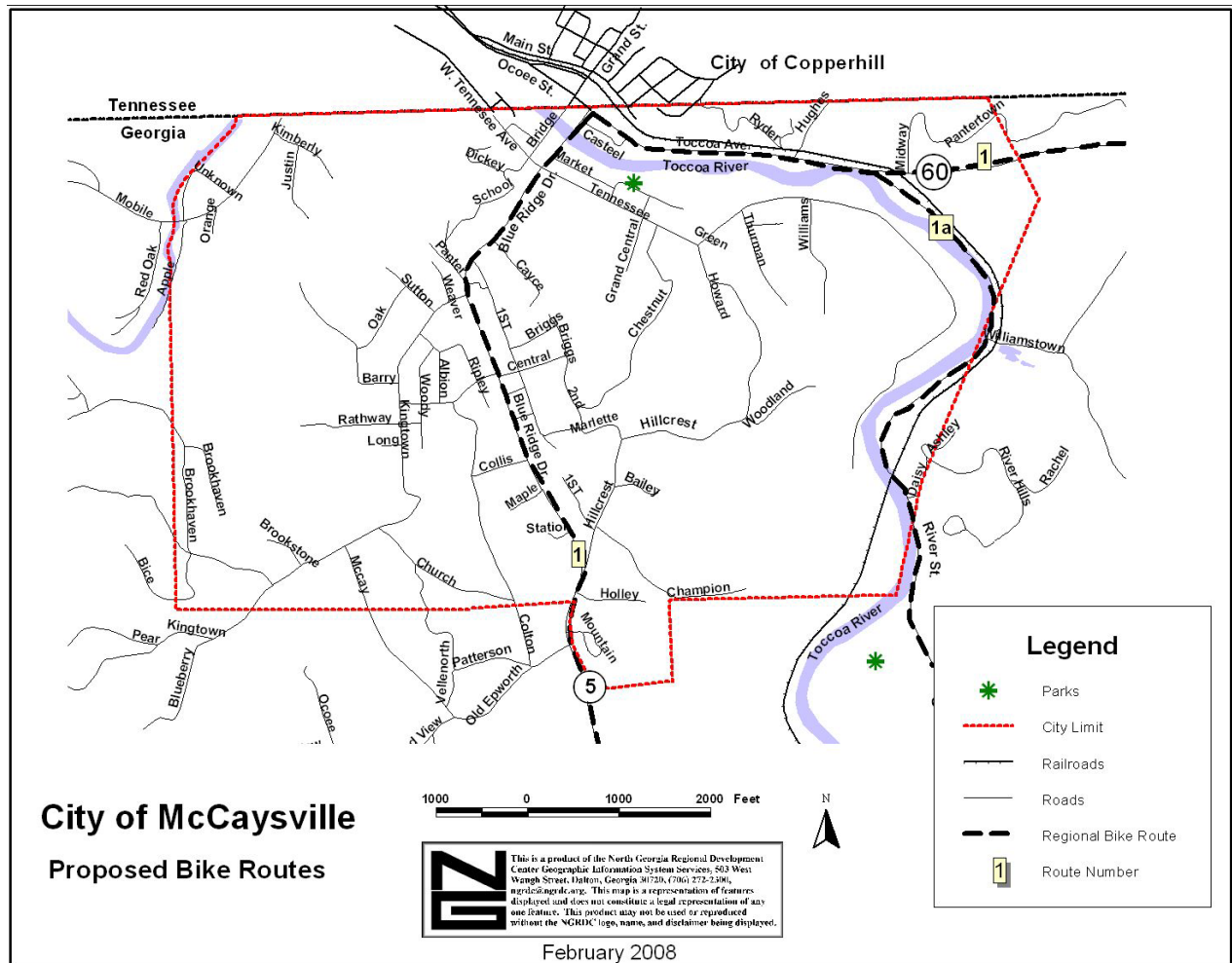
### **Proposed Facilities**

The Regional Bicycle and Pedestrian Facilities Plan adopted by the North Georgia Regional Development Center in 2005 proposes the development of bicycle routes in several locations in Fannin County, one of which travels through the City of McCaysville. These routes were originally developed and recommended with the input of citizens in Fannin County. Several individuals and organizations felt that it was imperative for Fannin County's tourism future to have local bike routes included in Georgia's proposed State Bike Route Plan. Working with the Fannin County Board of Commissioners, they drafted a plan for proposed routes that would connect the county to the State bike route system.

These proposed routes are called the Blue Ridge Bike Way and Tri-City Bike Way Loop. The Tri-City Loop (Route 1) is the route that travels through the City of McCaysville. It connects the three cities (Blue Ridge, McCaysville, and Morganton) via State Highways 5 and 60. This route also connects to the Blue Ridge Bike Way, which also ultimately connects to the State's Mountain Crossing Bike Route in Ellijay. These routes incorporate the Regional Bicycle and Pedestrian Facilities Plan adopted by the Regional Development Center. The Regional Development Center also proposed the addition of a bike route along River Street from SR 60 to Horseshoe Bend Park (Route 1a). This route will provide an alternate way for McCaysville residents to travel to the park, which is approximately 1.5 miles from downtown. (See *Map Five*.)

Since the proposed Tri-City Bike Way Loop is located on state highways, improvements to these routes would require the installation of bike facilities (either designated bike lanes or wide curb lanes in the city) along the entire route. Per GDOT policy, whenever the State intends to improve a state highway route, which is also designated as a bicycle route in an official plan, the State will install the bicycle facilities as called for in the plan.

## Map 5: Regional Bicycle Routes



Source: North Georgia Regional Bike and Pedestrian Facilities Plan (2005).

## Types of Bicyclists

Bicyclists can generally be classified into three user types, which is useful to assist in the design of facilities:

**Group A - Advanced Bicyclist.** These are expert or experienced riders who can operate under most traffic conditions. Expert riders often use their bicycles as transportation and desire direct access to destinations with minimal delay. These riders are confident riding their bicycles alongside motor vehicles and are able to negotiate high-speed roadways without special bicycle facilities. In designing facilities for expert riders, adequate space should be provided so that cyclists and motorists can pass comfortably without shifting positions.



Group B - Casual Bicyclist. These are casual adult and teenage riders who are less confident of their ability to operate in traffic without provisions for bicycles. The casual bicyclist prefers comfortable access to destinations, preferably by a direct route, using either low-speed, low traffic-volume streets or designated bicycle facilities and well-defined separation of bicycles and motor vehicles on arterial and collector streets or separated bike paths.

Group C – Inexperienced. These are riders with very little experience including children whose roadway use is initially monitored by adults. They desire access to key destinations surrounding residential areas, including schools, recreation facilities, and shopping. They prefer access to these sites via residential streets with low motor vehicle speed limits and volumes, or well-defined separation of bicycles and motor vehicles along major streets, or separated bike paths.

### **Types of Bicycle Facilities**

There are three types of bicycle facilities that can be provided to meet the needs of cyclists:

- Class I: Multi-use Paths
- Class II: Bike Lanes/Shouldered Bikeways
- Class III: Bike Routes

Class I: Multi-Use Path. Sometimes more popularly known as greenways, multi-use paths do not allow motor vehicle traffic but they do permit a range of non-motorized travel including bicycling, walking, running, and in-line skating. Although typically built in an independent right-of-way, park, or easement, multi-use paths may also be located within road rights-of-way, separated from motor vehicle traffic by open space or a structural barrier. Multi-use paths are typically 10 to 12 feet wide.

Multi-use paths attract recreational users, but because they typically wind through a community and connect destinations, they also offer an excellent opportunity to function as non-motorized transportation routes. For inexperienced cyclists and children, multi-use paths may be the preferred facility. Multi-use paths are also excellent training ground for building skills to ride on the road.

**Figure 8: Example of multi-use path**



Source: North Georgia Regional Bike & Pedestrian Plan



**Recommendation:** One route that should be evaluated for development as a multi-use path is Route 1a, which travels from SR 60 along River Street to the Horseshoe Bend Park. This route travels along the Toccoa River and offers a variety of scenic vistas. Since this route provides access to the park, development of a multi-use greenway along the river would offer additional recreation opportunities (walking, in-line skating, etc.) to local residents as well as provide a safe alternative to access the park for inexperienced bicyclists.

## Class II: Bike Lanes/Shouldered Bikeways.

Bicycle lanes are designated sections of a roadway signed, striped, and marked exclusively for bicycle use. Significant bicycle demand or expectation in urban areas typically contains bicycle lanes on arterial streets and roadways. They are one-way facilities placed on both sides of a street in order to carry bicyclists in the same direction as motor vehicles. The American Association of State Highway and Transportation Officials (AASHTO) standards for bike lanes are 5 feet from the face of the curb to the white edge line if curb and gutter is present, or 4 feet from the face of the curb to the white edge line if there is no gutter pan.

Shouldered bikeways are paved shoulders separated from travel lanes with a lane stripe, and are typical for rural roadways without curbs and gutters. Pavement markings are not typically used on shouldered bikeways, since they can also be used for other functions, such as vehicle breakdowns. Generally, a 6.5 foot paved shoulder functions if no curb or gutter is present such as in rural areas. Signage should also be placed on these facilities to indicate the presence of bicyclists.

**Recommendation:** If it is not feasible to establish Route 1a to Horseshoe Bend Park as a multi-purpose path or greenway, then this route should be considered for improvement as either designated bike lanes or shouldered bikeways.

Figure 9: Example of bike lanes



Source: North Georgia Regional Bike & Pedestrian Plan

Figure 10: Example of wide shoulders



Source: North Georgia Regional Bike & Pedestrian Plan

Class III: Bike Routes. On a bike route, bicyclists and motorists share the same travel lanes. Except in the cases where wide outside travel lanes provide safety, motorists will typically have to move into the adjacent lane in order to pass a bicyclist. Bike routes function well on local and minor collector streets, where traffic volumes and speed are typically lower than on major collector and arterial streets. There are three types of shared roadways: Wide Outside Lanes, Shared Signed Roadways, and Local Streets.

On major collector and arterial streets, where severe physical constraints prohibit the construction of bike lanes, Wide Outside Lanes are a desirable alternative. Wide Outside Lanes are wider than the typical 11 or 12 feet, and it is recommended that they be 13 to 14 feet wide. Because they provide less operating room than bicycle lanes, and are not designated for exclusive bicycle use, some cyclists will be uncomfortable using Wide Outside Lanes. However, Wide Outside Lanes allow most motorists to pass without weaving into the adjacent lane and provide a greater degree of comfort to cyclists than a typical 11 or 12-foot lane.

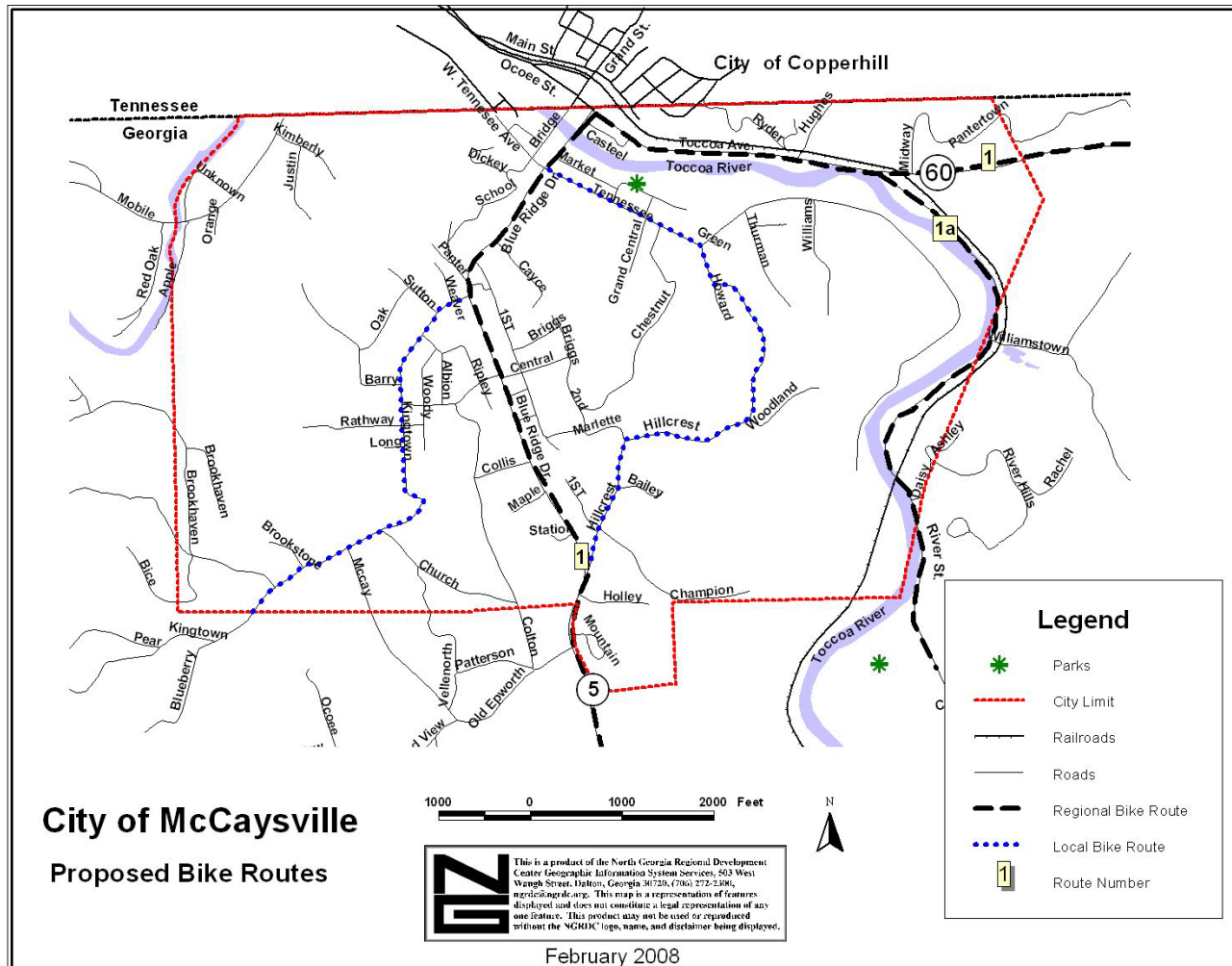
Shared Signed Roadways are arterial or collector streets where bicycle traffic or demand is high, but Bike Lanes or Wide Outside Lanes cannot be provided due to severe physical constraints. Shared Signed Roadways posted with appropriate speed limits rely on signage to encourage both drivers and cyclists to be alert for all roadway users. In addition, use of traffic calming devices on collectors further encourages appropriate travel speeds.

***Recommendation:*** As indicated earlier, Route 1 travels through McCaysville via State Routes 5 and 60. It is not likely that these State Highways will receive substantial improvements such as a major widening in the near future. A major widening would be expensive since it would require additional right-of-way. Therefore, the roadway widths of these routes are likely to remain as they are, and the route will need to function as a Shared Signed Roadway. It is recommended that “Share the Road” signage be installed at reasonable intervals along the route within the city. Posted speed limits on these routes in the City are reasonable; however, if excessive speeds are commonplace, the city should consider greater enforcement.

Local Streets should be able to accommodate bicyclists safely without any special treatment. In some cases, signage could be used to identify a through bike route that follows a local street. In cases where local streets carry more traffic at greater speeds than were designed for, implementing traffic calming techniques such as speed humps and curb extensions to help insure that bicycle and motor vehicle traffic operate compatibly.

***Recommendation:*** Several city streets can function as local bicycle routes to outlying residential neighborhoods and provide connectivity to the downtown area. One recommended route follows Hillcrest Street from its intersection with State Route 5 (Blue Ridge Drive) to Tennessee Avenue, and then follows Tennessee Avenue back to Blue Ridge Drive in downtown. The second recommended route starts on Kingtown Road near the city limits and travels south until it intersects with Blue Ridge Drive. (See Map Six.) No improvements may be necessary on these routes other than signage that denotes these as bicycle routes.

**Map 6: Proposed Local Bike Routes**

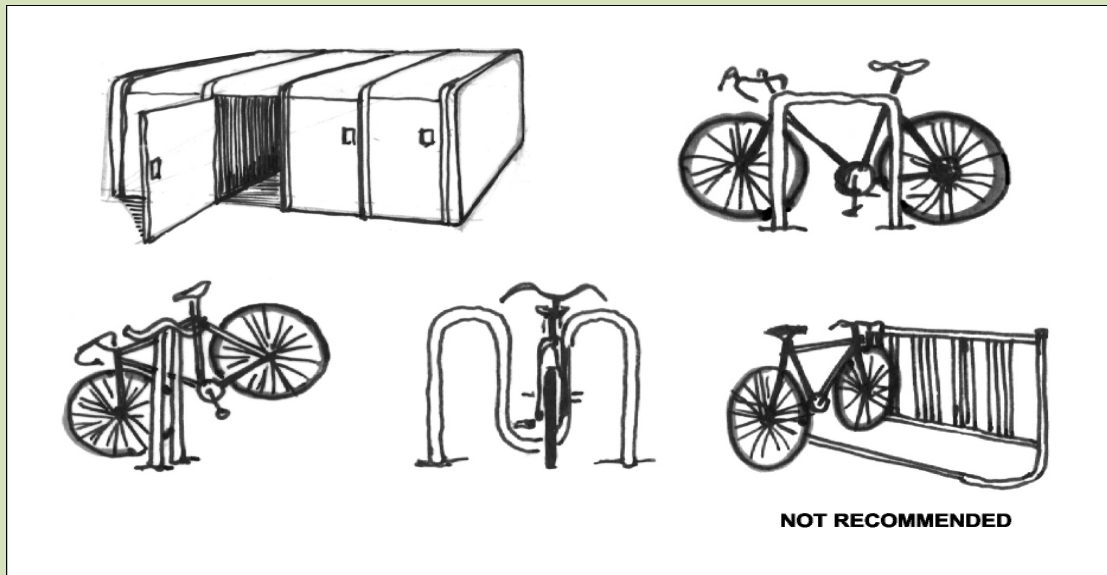


Source: North Georgia Regional Development Center

## Bicycle Parking Facilities

Cyclists are often discouraged from using their bicycles as transportation because they have no place to park their bicycles at their destination. Bicycle parking can be addressed by the provision of bike racks or bike lockers. Bike racks come in a range of shapes, sizes, and materials. The intention of bike racks is to provide a short-term parking solution only, and is suitable for the occasional user. However, they do not provide a high degree of protection from theft, vandalism, and weather for long term parking requirements, such as may be required by a biking commuter. Bike lockers can serve this type of parking requirement. Bike lockers are containers designed to store bicycles without dismantling. A rider can also store riding gear in the locker. The bicycle is completely enclosed and secure from impact. (See illustration.)

**Figure 11: Bicycle Storage Facilities**



Source: North Georgia Regional  
Bicycle and Pedestrian Facilities Plan

Illustration of several types of bicycle racks and locker designs, the older style rack illustrated in the lower right corner does not permit a bicycle frame to be secured and is sub-standard.

Generally, bicycle racks should:

- Accommodate high security U-type locks,
- Permit the frame and at least one wheel to be locked,
- Be covered in areas where bikes may be left for longer periods of time, and
- Be securely anchored.

Each bicycle parking space should be at least six feet long by two feet wide. Like motorists, bicyclists need space to maneuver their vehicles into parking spaces. Accordingly, when full, a bike rack should have about five feet of clearance on at least three sides.

**Recommendation:** Initially, bike racks should be installed at two locations: 1) in the downtown area, and 2) at Horseshoe Bend Park. Since Horseshoe Bend Park is located in the County's jurisdiction, the County Parks and Recreation Department would be responsible for installation at that location.

## **Funding and Other Assistance**

A variety of potential funding sources including local, state, and federal funding programs that may be used to construct the proposed bicycle and pedestrian improvements. Many of the federal and state programs are competitive, and involve the completion of extensive applications with clear documentation of the project need, costs, and benefits.

Most of the funding for recent bicycle and pedestrian improvements for many communities has come from the U.S Federal Highway Administration Transportation Enhancement (TE) grants. An example is the grant that was awarded by GDOT to enhance the Blue Ridge Drive downtown area recently. Another program that may be of use is the National Recreation Trails Program administered by the Georgia Department of Natural Resources. This program provides funds primarily for projects that are limited to construction and/or maintenance of trails typically used for recreational purposes. They require a 20% local match in funding and currently there is over \$2 million available in Georgia, more information is available online at <http://www.dot.ga.gov/travelinggeorgia/bikepedestrian/Pages/FundingSources.aspx>.

The Georgia Department of Transportation website is a good source for funding information located online at <http://www.dot.ga.state.us.gov>.

Another Federal Highway Administration program, which can also be used to make sidewalk and bicycle facility improvements, is the Safe Routes to Schools program. Safe Routes to School was initiated under the SAFETEA-LU Act in 2005, Georgia received a \$16.6 million share through the fiscal 2010 year. Approximately 80% of the funds are used for infrastructure construction within a two-mile radius of the elementary and middle schools (K-8). Education and information programs are funded by 15% and the remaining 5% is flexible, meaning it can go either way to fund either infrastructure or education/information costs, depending upon unique local situations. It should be noted that funding provided requires no local match, it is 100% federally funded. In addition, this program is not just available to municipalities that would like to get funding to build sidewalks. The SRTS program only awards funding to programs that have schools actively involved in education, encouragement, enforcement, and engineering for safe routes programs and facilities. More information can be found online with Georgia's Department of Transportation Safe Routes to Schools program website at <http://www.dot.ga.gov/localgovernment/FundingPrograms/srts/>.

The North Georgia Regional Development Center can provide a variety of technical assistance in helping the City with implementation of the recommendations including providing information about funding programs, and preparing grant applications.

A variety of general and technical information resources can also be of assistance in planning, designing pedestrian, and bicycle facilities. One effective way is to complete a walkability or bikeability checklist for your community. Example checklists are located in the appendices. In addition to the checklists, provided is additional information on a number of resources for both walking and bicycling.

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## **Appendices**

**Appendix A** – U.S. Department of Transportation and Federal Highway Administration in cooperation with the Nation Center for Safe Routes to School presents the community Walkability Checklist.

**Appendix B** – U.S. Department of Transportation and the Federal Highway Administration in cooperation with the National Highway Traffic Safety Administration presents the community Bikeability Checklist.



# Walkability Checklist

## How walkable is your community?

### Take a walk with a child and decide for yourselves.

Everyone benefits from walking. These benefits include: improved fitness, cleaner air, reduced risks of certain health problems, and a greater sense of community. But walking needs to be safe and easy. Take a walk with your child and use this checklist to decide if your neighborhood is a friendly place to walk. Take heart if you find problems, there are ways you can make things better.

### Getting started:

First, you'll need to pick a place to walk, like the route to school, a friend's house or just somewhere fun to go.

The second step involves the checklist. Read over the checklist before you go, and as you walk, note the locations of things you would like to change. At the end of your walk, give each question a rating. Then add up the numbers to see how you rated your walk overall.

After you've rated your walk and identified any problem areas, the next step is to figure out what you can do to improve your community's score. You'll find both immediate answers and long-term solutions under "Improving Your Community's Score..." on the third page.



Take a walk and use this checklist to rate your neighborhood's walkability.

# How walkable is your community?

Location of walk \_\_\_\_\_

Rating Scale:



## 1. Did you have room to walk?

- ☐ Yes ☐ Some problems:
- ☐ Sidewalks or paths started and stopped
  - ☐ Sidewalks were broken or cracked
  - ☐ Sidewalks were blocked with poles, signs, shrubbery, dumpsters, etc.
  - ☐ No sidewalks, paths, or shoulders
  - ☐ Too much traffic
  - ☐ Something else \_\_\_\_\_
- Locations of problems: \_\_\_\_\_

Rating: (circle one) \_\_\_\_\_  
1 2 3 4 5 6

## 4. Was it easy to follow safety rules?

### Could you and your child...

- ☐ Yes ☐ No Cross at crosswalks or where you could see and be seen by drivers?
- ☐ Yes ☐ No Stop and look left, right and then left again before crossing streets?
- ☐ Yes ☐ No Walk on sidewalks or shoulders facing traffic where there were no sidewalks?
- ☐ Yes ☐ No Cross with the light?
- Locations of problems: \_\_\_\_\_

Rating: (circle one) \_\_\_\_\_  
1 2 3 4 5 6

## 2. Was it easy to cross streets?

- ☐ Yes ☐ Some problems:
- ☐ Road was too wide
  - ☐ Traffic signals made us wait too long or did not give us enough time to cross
  - ☐ Needed striped crosswalks or traffic signals
  - ☐ Parked cars blocked our view of traffic
  - ☐ Trees or plants blocked our view of traffic
  - ☐ Needed curb ramps or ramps needed repair
  - ☐ Something else \_\_\_\_\_
- Locations of problems: \_\_\_\_\_

Rating: (circle one) \_\_\_\_\_  
1 2 3 4 5 6

## 5. Was your walk pleasant?

- ☐ Yes ☐ Some unpleasant things:
- ☐ Needed more grass, flowers, or trees
  - ☐ Scary dogs
  - ☐ Scary people
  - ☐ Not well lighted
  - ☐ Dirty, lots of litter or trash
  - ☐ Dirty air due to automobile exhaust
  - ☐ Something else \_\_\_\_\_
- Locations of problems: \_\_\_\_\_

Rating: (circle one) \_\_\_\_\_  
1 2 3 4 5 6

## 3. Did drivers behave well?

- ☐ Yes ☐ Some problems: Drivers...
- ☐ Backed out of driveways without looking
  - ☐ Did not yield to people crossing the street
  - ☐ Turned into people crossing the street
  - ☐ Drove too fast
  - ☐ Sped up to make it through traffic lights or drove through traffic lights?
  - ☐ Something else \_\_\_\_\_
- Locations of problems: \_\_\_\_\_

Rating: (circle one) \_\_\_\_\_  
1 2 3 4 5 6

## How does your neighborhood stack up? Add up your ratings and decide.

- |          |       |   |
|----------|-------|---|
| 1. _____ | 26-30 | Celebrate! You have a great neighborhood for walking. |
| 2. _____ | 21-25 | Celebrate a little. Your neighborhood is pretty good. |
| 3. _____ | 16-20 | Okay, but it needs work.                              |
| 4. _____ | 11-15 | It needs lots of work. You deserve better than that.  |
| 5. _____ | 5-10  | It's a disaster for walking!                          |

Total \_\_\_\_\_

Now that you've identified the problems,  
go to the next page to find out how to fix them.

Now that you know the problems,  
you can find the answers.

# Improving your community's score...



## 1. Did you have room to walk?

Sidewalks or paths started and stopped  
Sidewalks broken or cracked  
Sidewalks blocked  
No sidewalks, paths or shoulders  
Too much traffic

### What you and your child can do immediately

- pick another route for now
- tell local traffic engineering or public works department about specific problems and provide a copy of the checklist

### What you and your community can do with more time

- speak up at board meetings
- write or petition city for walkways and gather neighborhood signatures
- make media aware of problem
- work with a local transportation engineer to develop a plan for a safe walking route

## 2. Was it easy to cross streets?

Road too wide  
Traffic signals made us wait too long or did not give us enough time to cross  
Crosswalks/traffic signals needed  
View of traffic blocked by parked cars, trees, or plants  
Needed curb ramps or ramps needed repair

- pick another route for now
- share problems and checklist with local traffic engineering or public works department
- trim your trees or bushes that block the street and ask your neighbors to do the same
- leave nice notes on problem cars asking owners not to park there

- push for crosswalks/signals/parking changes/curb ramps at city meetings
- report to traffic engineer where parked cars are safety hazards
- report illegally parked cars to the police
- request that the public works department trim trees or plants
- make media aware of problem

## 3. Did drivers behave well?

Backed without looking  
Did not yield  
Turned into walkers  
Drove too fast  
Sped up to make traffic lights or drove through red lights

- pick another route for now
- set an example: slow down and be considerate of others
- encourage your neighbors to do the same
- report unsafe driving to the police

- petition for more enforcement
- request protected turns
- ask city planners and traffic engineers for traffic calming ideas
- ask schools about getting crossing guards at key locations
- organize a neighborhood speed watch program

## 4. Could you follow safety rules?

Cross at crosswalks or where you could see and be seen  
Stop and look left, right, left before crossing  
Walk on sidewalks or shoulders facing traffic  
Cross with the light

- educate yourself and your child about safe walking
- organize parents in your neighborhood to walk children to school

- encourage schools to teach walking safety
- help schools start safe walking programs
- encourage corporate support for flex schedules so parents can walk children to school

## 5. Was your walk pleasant?

Needs grass, flowers, trees  
Scary dogs  
Scary people  
Not well lit  
Dirty, litter  
Lots of traffic



- point out areas to avoid to your child; agree on safe routes
- ask neighbors to keep dogs leashed or fenced
- report scary dogs to the animal control department
- report scary people to the police
- report lighting needs to the police or appropriate public works department
- take a walk with a trash bag
- plant trees, flowers in your yard
- select alternative route with less traffic

- request increased police enforcement
- start a crime watch program in your neighborhood
- organize a community clean-up day
- sponsor a neighborhood beautification or tree-planting day
- begin an adopt-a-street program
- initiate support to provide routes with less traffic to schools in your community (reduced traffic during am and pm school commute times)

## A Quick Health Check

Could not go as far or as fast as we wanted  
Were tired, short of breath or had sore feet or muscles  
Was the sun really hot?  
Was it hot and hazy?

- start with short walks and work up to 30 minutes of walking most days
- invite a friend or child along
- walk along shaded routes where possible
- use sunscreen of SPF 15 or higher, wear a hat and sunglasses
- try not to walk during the hottest time of day

- get media to do a story about the health benefits of walking
- call parks and recreation department about community walks
- encourage corporate support for employee walking programs
- plant shade trees along routes
- have a sun safety seminar for kids
- have kids learn about unhealthy ozone days and the Air Quality Index (AQI)

Need some guidance?  
These resources might help...

# Great Resources

## WALKING INFORMATION

Pedestrian and Bicycle Information Center (PBIC)  
UNC Highway Safety Research Center  
730 Airport Road, Suite 300  
Campus Box 3430  
Chapel Hill, NC  
27599-3430  
Phone: (919) 962-2202  
[www.pedbikeinfo.org](http://www.pedbikeinfo.org)  
[www.walkinginfo.org](http://www.walkinginfo.org)

National Center for  
Safe Routes to School  
730 Martin Luther  
King, Jr. Blvd., Suite 300  
Campus Box 3430  
Chapel Hill, NC 27599-3430  
Toll-free 1-866-610-SRTS  
[www.saferoutesinfo.org](http://www.saferoutesinfo.org)

National Center for Bicycling and Walking  
Campaign to Make America Walkable  
1506 21st Street, NW  
Suite 200  
Washington, DC 20036  
Phone: (800) 760-NBPC  
[www.bikefed.org](http://www.bikefed.org)

## WALK TO SCHOOL DAY WEB SITES

USA event: [www.walktoschool-usa.org](http://www.walktoschool-usa.org)  
International: [www.iwalktoschool.org](http://www.iwalktoschool.org)

## STREET DESIGN AND TRAFFIC CALMING

Federal Highway Administration  
Pedestrian and Bicycle Safety Research Program  
HSR - 20  
6300 Georgetown Pike  
McLean, VA 22101  
[www.fhwa.dot.gov/environment/bikeped/index.htm](http://www.fhwa.dot.gov/environment/bikeped/index.htm)

Institute of Transportation Engineers  
[www.ite.org](http://www.ite.org)

Surface Transportation Policy Project  
[www.transact.org](http://www.transact.org)

Transportation for Livable Communities  
[www.tlcnetwork.org](http://www.tlcnetwork.org)

## WALKING COALITIONS

America Walks  
P.O. Box 29103  
Portland, Oregon 97210  
Phone: (503) 222-1077  
[www.americawalks.org](http://www.americawalks.org)



## PEDESTRIAN SAFETY

National Highway Traffic Safety Administration  
Traffic Safety Programs  
400 Seventh Street, SW  
Washington, DC 20590  
Phone: (202) 662-0600  
[www.nhtsa.dot.gov/people/injury/pedbimot/ped](http://www.nhtsa.dot.gov/people/injury/pedbimot/ped)

SAFE KIDS Worldwide  
1301 Pennsylvania Ave. NW  
Suite 1000  
Washington, DC 20004  
Phone: (202) 662-0600  
Fax: (202) 393-2072  
[www.safekids.org](http://www.safekids.org)

## WALKING AND HEALTH

US Environmental Protection Agency  
Office of Children's Health Protection (MC 1107A)  
Washington, DC 20460  
Phone: 202-564-2188  
Fax: 202-564-2733  
[www.epa.gov/children/](http://www.epa.gov/children/)  
[www.epa.gov/airnow/](http://www.epa.gov/airnow/)  
[www.epa.gov/air/urbanair/ozone/what.html](http://www.epa.gov/air/urbanair/ozone/what.html)  
[www.epa.gov/sunwise/uvindex.html](http://www.epa.gov/sunwise/uvindex.html)  
[www.epa.gov/otaq/transp/comchoic/ccweb.htm](http://www.epa.gov/otaq/transp/comchoic/ccweb.htm)

President's Task Force on Environmental Health Risks and  
Safety Risks to Children  
[www.childrenshealth.gov](http://www.childrenshealth.gov)

Centers for Disease Control and Prevention  
Division of Nutrition and Physical Activity  
Phone: (888) 232-4674  
[www.cdc.gov/nccdphp/dnpa/readysset](http://www.cdc.gov/nccdphp/dnpa/readysset)  
[www.cdc.gov/nccdphp/dnpa/kidswalk/index.htm](http://www.cdc.gov/nccdphp/dnpa/kidswalk/index.htm)

Prevention Magazine  
33 East Minor Street  
Emmaus, PA 18098  
[www.itsallaboutprevention.com](http://www.itsallaboutprevention.com)

Shape Up America!  
6707 Democracy Boulevard  
Suite 306  
Bethesda, MD 20817  
[www.shapeup.org](http://www.shapeup.org)

## ACCESSIBLE SIDEWALKS

US Access Board  
1331 F Street, NW  
Suite 1000  
Washington, DC 20004-1111  
Phone: (800) 872-2253;  
(800) 993-2822 (TTY)  
[www.access-board.gov](http://www.access-board.gov)



# Bikeability Checklist

## How bikeable is your community?

### Riding a bike is fun!

Bicycling is a great way to get around and to get your daily dose of physical activity. It's good for the environment, and it can save you money. No wonder many communities are encouraging people to ride their bikes more often!

### Can you get to where you want to go by bike?

Some communities are more bikeable than others: how does yours rate? Read over the questions in this checklist and then take a ride in your community, perhaps to the local shops, to visit a friend, or even to work. See if you can get where you want to go by bicycle, even if you are just riding around the neighborhood to get some exercise.

At the end of your ride, answer each question and, based on your opinion, circle an overall rating for each question. You can also note any problems you encountered by checking the appropriate box(es). Be sure to make a careful note of any specific locations that need improvement.

Add up the numbers to see how you rated your ride. Then, turn to the pages that show you how to begin to improve those areas where you gave your community a low score.

Before you ride, make sure your bike is in good working order, put on a helmet, and be sure you can manage the ride or route you've chosen. Enjoy the ride!



National Highway Traffic  
Safety Administration



Pedestrian and Bicycle Information Center



U.S. Department  
of Transportation



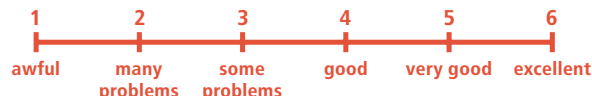
Go for a ride and use this checklist  
to rate your neighborhood's bikeability.



# How bikeable is your community?

Location of bike ride (be specific):  
\_\_\_\_\_

Rating Scale:



## 1. Did you have a place to bicycle safely?

### a) On the road, sharing the road with motor vehicles?

- ☐ Yes ☐ Some problems (please note locations):
- ☐ No space for bicyclists to ride
  - ☐ Bicycle lane or paved shoulder disappeared
  - ☐ Heavy and/or fast-moving traffic
  - ☐ Too many trucks or buses
  - ☐ No space for bicyclists on bridges or in tunnels
  - ☐ Poorly lighted roadways
- Other problems: \_\_\_\_\_

### b) On an off-road path or trail, where motor vehicles were not allowed?

- ☐ Yes ☐ Some problems:
- ☐ Path ended abruptly
  - ☐ Path didn't go where I wanted to go
  - ☐ Path intersected with roads that were difficult to cross
  - ☐ Path was crowded
  - ☐ Path was unsafe because of sharp turns or dangerous downhill
  - ☐ Path was uncomfortable because of too many hills
  - ☐ Path was poorly lighted
- Other problems: \_\_\_\_\_

Overall "Safe Place To Ride" Rating: (circle one)

1 2 3 4 5 6

## 2. How was the surface that you rode on?

- ☐ Good ☐ Some problems, the road or path had:
- ☐ Potholes
  - ☐ Cracked or broken pavement
  - ☐ Debris (e.g. broken glass, sand, gravel, etc.)
  - ☐ Dangerous drain grates, utility covers, or metal plates
  - ☐ Uneven surface or gaps
  - ☐ Slippery surfaces when wet (e.g. bridge decks, construction plates, road markings)
  - ☐ Bumpy or angled railroad tracks
  - ☐ Rumble strips
- Other problems: \_\_\_\_\_

Overall Surface Rating: (circle one)

1 2 3 4 5 6

## 3. How were the intersections you rode through?

- ☐ Good ☐ Some problems:
- ☐ Had to wait too long to cross intersection
  - ☐ Couldn't see crossing traffic
  - ☐ Signal didn't give me enough time to cross the road
  - ☐ Signal didn't change for a bicycle
  - ☐ Unsure where or how to ride through intersection
- Other problems: \_\_\_\_\_

Overall Intersection Rating: (circle one)

1 2 3 4 5 6

Continue the checklist on the next page...



#### 4. Did drivers behave well?

- ☐ Yes    ☐ Some problems, drivers:
- ☐ Drove too fast
  - ☐ Passed me too close
  - ☐ Did not signal
  - ☐ Harassed me
  - ☐ Cut me off
  - ☐ Ran red lights or stop sign
- Other problems: \_\_\_\_\_

**Overall Driver Rating:** (circle one)

1   2   3   4   5   6

#### 5. Was it easy for you to use your bike?

- ☐ Yes    ☐ Some problems:
- ☐ No maps, signs, or road markings to help me find my way
  - ☐ No safe or secure place to leave my bicycle at my destination
  - ☐ No way to take my bicycle with me on the bus or train
  - ☐ Scary dogs
  - ☐ Hard to find a direct route I liked
  - ☐ Route was too hilly
- Other problems: \_\_\_\_\_

**Overall Ease of Use Rating:** (circle one)

1   2   3   4   5   6

#### 6. What did you do to make your ride safer?

Your behavior contributes to the bikeability of your community. Check all that apply:

- ☐ Wore a bicycle helmet
- ☐ Obeyed traffic signal and signs
- ☐ Rode in a straight line (didn't weave)
- ☐ Signaled my turns
- ☐ Rode with (not against) traffic
- ☐ Used lights, if riding at night
- ☐ Wore reflective and/or retroreflective materials and bright clothing
- ☐ Was courteous to other travelers (motorist, skaters, pedestrians, etc.)

#### 7. Tell us a little about yourself.

In good weather months, about how many days a month do you ride your bike?

- ☐ Never
- ☐ Occasionally (one or two)
- ☐ Frequently (5-10)
- ☐ Most (more than 15)
- ☐ Every day

Which of these phrases best describes you?

- ☐ An advanced, confident rider who is comfortable riding in most traffic situations
- ☐ An intermediate rider who is not really comfortable riding in most traffic situations
- ☐ A beginner rider who prefers to stick to the bike path or trail

#### How does your community rate? Add up your ratings and decide.

(Questions 6 and 7 do not contribute to your community's score)

1. _____	<b>26-30</b>	Celebrate! You live in a bicycle-friendly community.
2. _____	<b>21-25</b>	Your community is pretty good, but there's always room for improvement.
3. _____	<b>16-20</b>	Conditions for riding are okay, but not ideal. Plenty of opportunity for improvements.
4. _____	<b>11-15</b>	Conditions are poor and you deserve better than this! Call the mayor and the newspaper right away.
5. _____		
<b>Total</b> _____	<b>5-10</b>	Oh dear. Consider wearing body armor and Christmas tree lights before venturing out again.

#### Did you find something that needs to be changed?

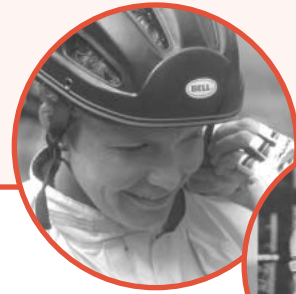
On the next page, you'll find suggestions for improving the bikeability of your community based on the problems you identified. Take a look at both the short- and long-term solutions and commit to seeing at least one of each through to the end. If you don't, then who will?

During your bike ride, how did you feel physically? Could you go as far or as fast as you wanted to? Were you short of breath, tired, or were your muscles sore? The next page also has some suggestions to improve the enjoyment of your ride.

Bicycling, whether for transportation or recreation, is a great way to get 30 minutes of physical activity into your day. Riding, just like any other activity, should be something you enjoy doing. The more you enjoy it, the more likely you'll stick with it. Choose routes that match your skill level and physical activities. If a route is too long or hilly, find a new one. Start slowly and work up to your potential.

Now that you know the problems,  
you can find the answers.

# Improving your community's score...



## 1. Did you have a place to bicycle safely?

### a) On the road?

No space for bicyclists to ride (e.g. no bike lane or shoulder; narrow lanes)  
Bicycle lane or paved shoulder disappeared  
Heavy and/or fast-moving traffic  
Too many trucks or buses  
No space for bicyclists on bridges or in tunnels  
Poorly lighted roadways

### What you can do immediately

- pick another route for now
- tell local transportation engineers or public works department about specific problems; provide a copy of your checklist
- find a class to boost your confidence about riding in traffic

### What you and your community can do with more time

- participate in local planning meetings
- encourage your community to adopt a plan to improve conditions, including a network of bike lanes on major roads
- ask your public works department to consider "Share the Road" signs at specific locations
- ask your state department of transportation to include paved shoulders on all their rural highways
- establish or join a local bicycle advocacy group

### b) On an off-road path or trail?

Path ended abruptly  
Path didn't go where I wanted to go  
Path intersected with roads that were difficult to cross  
Path was crowded  
Path was unsafe because of sharp turns or dangerous downhill  
Path was uncomfortable because of too many hills  
Path was poorly lighted

- slow down and take care when using the path
- find an on-street route
- use the path at less crowded times
- tell the trail manager or agency about specific problems

- ask the trail manager or agency to improve directional and warning signs
- petition your local transportation agency to improve path/roadway crossings
- ask for more trails in your community
- establish or join a "Friends of the Trail" advocacy group

## 2. How was the surface you rode on?

Potholes  
Cracked or broken pavement  
Debris (e.g. broken glass, sand, gravel, etc.)  
Dangerous drain grates, utility covers, or metal plates  
Uneven surface or gaps  
Slippery surfaces when wet (e.g. bridge decks, construction plates, road markings)  
Bumpy or angled railroad tracks  
Rumble strips

- report problems immediately to public works department or appropriate agency
- keep your eye on the road/path
- pick another route until the problem is fixed (and check to see that the problems are fixed)
- organize a community effort to clean up the path

- work with your public works and parks department to develop a pothole or hazard report card or online link to warn the agency of potential hazards
- ask your public works department to gradually replace all dangerous drainage grates with more bicycle-friendly designs, and improve railroad crossings so cyclists can cross them at 90 degrees
- petition your state DOT to adopt a bicycle-friendly rumble-strip policy

## 3. How were the intersections you rode through?

Had to wait too long to cross intersection  
Couldn't see crossing traffic  
Signal didn't give me enough time to cross the road  
The signal didn't change for a bicycle  
Unsure where or how to ride through intersection

- pick another route for now
- tell local transportation engineers or public works department about specific problems
- take a class to improve your riding confidence and skills

- ask the public works department to look at the timing of the specific traffic signals
- ask the public works department to install loop-detectors that detect bicyclists
- suggest improvements to sightlines that include cutting back vegetation; building out the path crossing; and moving parked cars that obstruct your view
- organize community-wide, on-bike training on how to safely ride through intersections

# Improving your community's score...

(continued)

## What you can do immediately

## What you and your community can do with more time

### 4. Did drivers behave well?

Drivers:  
Drove too fast  
Passed me too close  
Did not signal  
Harassed me  
Cut me off  
Ran red lights or stop signs

- report unsafe drivers to the police
- set an example by riding responsibly; obey traffic laws; don't antagonize drivers
- always expect the unexpected
- work with your community to raise awareness to share the road

- ask the police department to enforce speed limits and safe driving
- encourage your department of motor vehicles to include "Share the Road" messages in driver tests and correspondence with drivers
- ask city planners and traffic engineers for traffic calming ideas
- encourage your community to use cameras to catch speeders and red light runners

### 5. Was it easy for you to use your bike?

No maps, signs, or road markings to help me find my way  
No safe or secure place to leave my bicycle at my destination  
No way to take my bicycle with me on the bus or train  
Scary dogs  
Hard to find a direct route I liked  
Route was too hilly

- plan your route ahead of time
- find somewhere close by to lock your bike; never leave it unlocked
- report scary dogs to the animal control department
- learn to use all of your gears!

- ask your community to publish a local bike map
- ask your public works department to install bike parking racks at key destinations; work with them to identify locations
- petition your transit agency to install bike racks on all their buses
- plan your local route network to minimize the impact of steep hills
- establish or join a bicycle user group (BUG) at your workplace

### 6. What did you do to make your ride safer?

Wore a bicycle helmet  
Obeyed traffic signals and signs  
Rode in a straight line (didn't weave)  
Signaled my turns  
Rode with (not against) traffic  
Used lights, if riding at night  
Wore reflective materials and bright clothing  
Was courteous to other travelers (motorists, skaters, pedestrians, etc.)

- go to your local bike shop and buy a helmet; get lights and reflectors if you are expecting to ride at night
- always follow the rules of the road and set a good example
- take a class to improve your riding skills and knowledge

- ask the police to enforce bicycle laws
- encourage your school or youth agencies to teach bicycle safety (on-bike)
- start or join a local bicycle club
- become a bicycle safety instructor



Need some guidance?  
These resources might help...

# Great Resources

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## STREET DESIGN AND BICYCLE FACILITIES

American Association of State Highway and Transportation Officials  
444 North Capitol Street, NW, Suite 249  
Washington, DC 20001  
Tel: (202) 624-5800  
[www.aashto.org](http://www.aashto.org)

Institute of Transportation Engineers  
1099 14th Street, NW, Suite 300 West  
Washington, DC 20005-3438  
Tel: (202) 289-0222  
[www.ite.org](http://www.ite.org)

Association of Pedestrian and Bicycle Professionals (APBP)  
P.O. Box 23576  
Washington, DC 20026  
Tel: (202) 366-4071  
[www.apbp.org](http://www.apbp.org)

Pedestrian and Bicycle Information Center (PBIC)  
UNC Highway Safety Research Center  
730 Airport Road, Suite 300  
Campus Box 3430  
Chapel Hill, NC 27599-3430  
Tel: (919) 962-2202  
[www.pedbikeinfo.org](http://www.pedbikeinfo.org)  
[www.bicyclinginfo.org](http://www.bicyclinginfo.org)

Federal Highway Administration  
400 Seventh Street, SW  
Washington, DC 20590  
[www.fhwa.dot.gov/environment/bikeped/index.htm](http://www.fhwa.dot.gov/environment/bikeped/index.htm)

## EDUCATION AND SAFETY

National Highway Traffic Safety Administration  
400 Seventh Street, SW  
Washington, D.C. 20590  
Tel: (202) 366-1739  
[www.nhtsa.dot.gov/people/injury/pedbimot/bike/](http://www.nhtsa.dot.gov/people/injury/pedbimot/bike/)

League of American Bicyclists  
1612 K Street NW, Suite 401  
Washington, DC 20006  
Tel: (202) 822-1333  
[www.bikeleague.org](http://www.bikeleague.org)

National Bicycle Safety Network  
[www.cdc.gov/ncipc/bike/default.htm](http://www.cdc.gov/ncipc/bike/default.htm)

National Safe Kids Campaign  
1301 Pennsylvania Ave NW, Suite 1000  
Washington, DC 20004  
Tel: (202) 662-0600  
[www.safekids.org](http://www.safekids.org)

## PATHS AND TRAILS

Rails to Trails Conservancy  
1100 17th Street SW, 10th Floor  
Washington, DC 20036  
Tel: (202) 331-9696  
[www.railtrails.org](http://www.railtrails.org)

National Park Service  
Rivers, Trails and Conservation Assistance Program  
1849 C Street, NW, MS-3622  
Washington, DC 20240  
[www.nrc.nps.gov/rtca/rtca-ofh.htm](http://www.nrc.nps.gov/rtca/rtca-ofh.htm)

## HEALTH

Centers for Disease Control and Prevention  
Division of Nutrition and Physical Activity  
4770 Buford Highway, NE  
Atlanta, GA 30341-3724  
[www.cdc.gov/nccdphp/dnpa](http://www.cdc.gov/nccdphp/dnpa)  
Tel: (770) 488-5692

National Center for Injury Prevention and Control  
Childhood Injury Prevention  
4770 Buford Highway, NE  
Atlanta, GA 30341  
[www.cdc.gov/ncipc](http://www.cdc.gov/ncipc)

## ADVOCACY AND USER GROUPS

Thunderhead Alliance  
1612 K Street, NW, Suite 401  
Washington, DC 20006  
Tel: (202) 822-1333  
[www.thunderheadalliance.org](http://www.thunderheadalliance.org)

League of American Bicyclists  
1612 K Street, NW, Suite 401  
Washington, DC 20006  
Tel: (202) 822-1333  
[www.bikeleague.org](http://www.bikeleague.org)

National Center for Bicycling and Walking  
1506 21st Street, NW, Suite 200  
Washington, DC 20036  
Tel: (202) 463-6622  
[www.bikewalk.org](http://www.bikewalk.org)

Surface Transportation Policy Project  
1100 17th Street, NW, 10th Floor  
Washington, DC 20036  
Tel: (202) 466-2636  
[www.transact.org](http://www.transact.org)

## OTHER USEFUL RESOURCES

Bikes and transit: [www.bikemap.com](http://www.bikemap.com)

Bicycle information: [www.bicyclinginfo.org](http://www.bicyclinginfo.org)

Bicycle-related research:  
[www.tfhr.gov/safety/pedbike/pedbike.htm](http://www.tfhr.gov/safety/pedbike/pedbike.htm)

Bicycling Magazine: [www.bicycling.com/](http://www.bicycling.com/)

Bicycle touring:  
Adventure Cycling Association  
P.O. Box 8308  
Missoula, MT 59807  
(800) 755-2453  
(406) 721-8754  
[www.adv-cycling.org](http://www.adv-cycling.org)