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Stakeholder Members:
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- Charlie Jones, NWGRC
- Bruz Clark, Lyndhurst Foundation President
- Jim Walker, Catoosa County Manager
- Ted Rumley, Dade County Commission Chair
- Don Townsend, Dade County Clerk
- Shannon Whitfield, Walker County Commissioner
- Jennifer Payne-Simpkins, Fort Oglethorpe Manager
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- David Bennett, Chickamauga Mayor
- Michael Haney, Chickamauga Manager
- Brad Haven, Lookout Mountain Manager
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- Cindy Whitaker, Lookout Mountain
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- Brent Buice, GA Bikes Executive Director
- Jim Johnson, Bike Walk TN
- Rick Wood, Trust for Public Land - TN Director
- Bridgett Massengill, Thrive 2055 Director
- Ruth Thompson, Thrive 2055
- Mike Pollock, Lulu Lake Land Trust Director
- Kathryn “Kat” Volzer, Lulu Lake Land Trust
Project Background

Northwest Georgia
Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

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Implementation

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Several studies and plans have been completed regarding regional planning and Bicycle and Pedestrian opportunities in the Chattanooga Tennessee and Northwest Georgia regions in the last 15 years. There is a strong culture of outdoor enthusiasm that includes hiking, biking, and walking in this region. It is the goal of this study to connect to the research and enthusiasm of the past and project it forward with current and future trends to create a plan that encapsulates the best economic opportunities for bicycle and pedestrian facilities within the region.
Project Overview:

The purpose of the Northwest Georgia Feasibility Study for Bikeways & Pedestrian Multi-Use Routes is to establish a vision for bikeway and pedestrian multi-use routes and measure their benefits for local communities and the surrounding region. The proposed routes will be established based on opportunities to connect communities, using key points of interest and commerce, natural and historic features and existing bike and pedestrian facilities. The opportunities and constraints of these routes will be assessed through input from the project stakeholder committee, public input and consulting team. Existing economic opportunities and the potential economic benefits of the proposed routes will also be evaluated.

Project Goals:

Based on the evaluation of existing background studies, site reconnaissance and input from the project stakeholder committee the following elements have been established as key focus areas for the study:

- Linking existing places of commerce & stimulating more tourism potential
- Connecting routes to the natural resources & scenic beauty of the study area
- Creating recreational opportunities & health benefits
- Connecting routes to places of historical and cultural value
- Evaluating improved transportation options & safety factors for the multi-use routes
- Measuring the cost & maintenance considerations of potential routes

An evaluation of these elements generates a good understanding of the potential this area holds for improved biking and walking opportunities and the economic value associated with these improvements.
Project Background:

Collaboration between regional agencies, county governments and local municipalities was an integral part of producing the vision of this study. This same collaborative spirit will be required to carry this vision forward to the long term implementation, management and maintenance of bicycle and pedestrian facilities. Continuing this partnership in marketing efforts will also generate the best results in economic gains from bicycle and pedestrian routes.

Lead Agency:

County Partners:

City Partners:

Project Background:

The following documents have provided invaluable information and resources for the Northwest Georgia Feasibility Study for Bikeway and Pedestrian Multi-Use Routes:

- Thrive 2055 Strategic Action Plan and Regional Maps
- Northwest Georgia Regional Council / Georgia Dept. of Transportation Atlanta Regional Commission (July 2013) Silver Comet Trail Economic Impact Analysis and Planning Study
- The Chattanooga-Hamilton County / North Georgia Transportation Planning Organization (April 2010) Regional Bicycle & Pedestrian Plan: Executive Summary and Technical Memos
- Catoosa Valley Regional Development Center (June 2005) Catoosa Valley Regional Bicycle and Pedestrian Plan
- Chattanooga Urban Area Metropolitan Planning Organization / Chattanooga-Hamilton County (April 2002)
- Virginia Department of Conservation. (2004). The Virginia Creeper Trail: An Assessment of User Demographics, Preferences, and Economics
- American Heart Association, Public Policy Agenda, 2010-2014
**Project Overview:**

The Northwest Georgia Feasibility Study for Bikeways & Pedestrian Multi-Use Routes is located in the Tri-State Region of Tennessee, Alabama, and Georgia. The study area is comprised of the North Georgia portion of the Chattanooga-Hamilton County / North Georgia Transportation Planning Organization (CHCNGA-TPO).

**Regional Context:**

**Local Context:**
Study Area Overview:
The study area is consist of approximately 250 square miles of Northwest Georgia including Catoosa County, the upper portion of Walker County and a small portion of Northeastern Dade County.
The Northwest Georgia Feasibility Study for Bikeway and Pedestrian Multi-Use Routes involved input from stakeholders in several different formats, some of them being qualitative and some quantitative. Evaluation and incorporation of stakeholder and community input has been key to shaping this study and evaluating the feasibility of proposed routes. The following input tools have been included in the process:

- Meetings and interviews with visitor attractions, hotels and services, retailers and other business, tourism agencies and park representatives.
- Steering committee meetings to generate ideas and solicit input on existing conditions, opportunities and constraints, potential routes and economic impact.
- A Public Open House to review the preliminary findings, solicit feedback and generate excitement regarding the potential routes and their impact.
- Presentation of the preliminary study findings to the TPO Executive Board for review and feedback.
- Presentation to the Northwest Georgia Regional Commission Board.

Several topics or “Big Ideas” surfaced from the initial inventory research and the opportunities and constraints. The main ideas or topics that were prioritized related to existing and proposed multi-use routes include: Economic impact and tourism, recreation, transportation, health, preservation of the environment and scenic view shed, user safety, equity and education. All of these ideas were highlighted as important, further prioritization was requested at community and stakeholder input sessions to establish which ideas were the highest priority.

Economic impact and tourism potential was seen as the most important prioritization from the committee. Preservation of the environment and protection of scenic views were also given a high priority. Recreational and transportation opportunities were additionally recognized as important. Safety conditions would be an inherent requirement for all proposed routes.
Project Background

Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

Project Approach

Inventory & Reconnaissance
- (2 months)
  - September
    - GIS Mapping & Data Analysis
  - October
    - Review Reference Material
    - Site Reconnaissance of Study Area

Opportunities & Constraints Analysis
- (2 months)
  - November
    - Map and Assess Potential Routes
    - Evaluate Resources in Study Area
    - Evaluate Local and Regional Connections
  - December
    - Refine Potential Routes
    - Evaluate Trail / Routes Categories
    - Conceptual Design Details
    - AEA, NACTO, GDOT Consideration

Findings & Recommendations
- (2 months)
  - January
    - Final Route Conclusions
    - Preliminary Route Conclusions
    - Examples of Key Environments
    - Amenity and Design Details
  - February
    - Final Feasibility Recommendations
    - Final Feasibility Recommendations
    - Phasing and Implementation Strategy

Implementation
- (2 months)
  - March
    - Final Study Documents
  - April
    - Tourism & Economic Impact
      - Tourism Development Program
      - Cost Analysis

Public Communications
- Mapping Data from Stakeholders / Local Agencies
  - Kick Off Meeting
  - Stakeholder Meeting #1
  - Stakeholder Meeting #2

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RAGAN•SMITH
Benefits of Multi-Use Facilities

The specific economic benefits of the bicycle and pedestrian routes proposed for the study area are evaluated in detail under the economic development strategy section of this plan. A brief summary of general benefits associated with trails, pedestrian walkways, multi-use paths and bicycle routes are described here to provide a general understanding of the many values associated with them.

Increased Property Value:
There are numerous examples around the country that display the positive connection between greenways, multi-use paths and parks. The closer proximity a property is located to a park or greenway the greater the gain in value. Trails are quickly becoming the most popular and highest demand amenity a community can offer.

- In a recent survey conducted by the National Association of Home Builders, trails ranked the second highest choice out of eighteen options for community amenities.

Enhanced Cultural Awareness & Community Identity:
Multi-use paths, greenways and bicycle routes frequently link to cultural resources and historic places. This often provides access to historic places such as battlefields, bridges, historic sites and historic buildings that might otherwise be difficult to reach.

- Pedestrian and bicycle access to cultural and historical places provides educational opportunities not necessarily found through auto related access
- Interaction on bike and pedestrian routes makes visitors feel more welcome and improves social and cultural exchange within local communities

Job Opportunities, Economic Stimulation & Tourism:
Multi-use paths, greenways and bicycle routes help generate revenue in several ways such as construction and maintenance, recreational rentals, environmental and cultural tourism, restaurants and lodging.

- An example is the Virginia Creeper Trail in southwest Virginia which generates $2.5 million annually related to recreational uses from its visitors
- A study done by the University of Massachusetts revealed that for every $1 million spent on multi-use paths there was a yield of 9 jobs
- A general principle used from economic evaluations of greenways and multi-use paths is that one dollar of investment will gain a rate of return of three dollars or more.

Environmental Benefits:
Connection to regional and local environmental assets improves an understanding of their value. Many bike and pedestrian routes allow unique access to areas of scenic beauty and high environmental quality. Greenways and multi-use paths are frequently part of open space easements that protect water sheds and preserve wildlife habitat. Furthermore, trails and greenways help improve air quality by providing transportation alternatives that do not require the burning of fossil fuels.

- According to the Rails to Trails Conservancy / Active Transportation
- Connected open space has proven to be of much higher value for wildlife habitat and ecosystem preservation than isolated pockets of open space

Promoting Healthy Living:
Multi-use paths, greenways and bicycle routes provide great opportunities to help maintain healthy lifestyles, especially in their appeal to all stages of life and their accessibility to people of all social backgrounds, economic positions and physical conditions.

- The American Heart Association has estimated that every $1 spent on walking paths and bike trails provides for approximately $3 in saved medical expenses
- The Center for Disease Control and Prevention (CDC) noted that creating and improving public spaces in a community to account for good access to pedestrian and bicycle routes generally increases the number of people who exercise in that community by 25%
- The National Highway Traffic Safety Administration calculated in 2009 that the health benefits from active transportation results in the prevention of premature deaths and equates to a national value of $235 billion per year

Improved Transportation Options:
The sprawling nature of modern day development often leads to limited transportation choices. According to the Federal Highway Administration, two-thirds of the trips made by that are made by average Americans are less than 5 miles. Most people surveyed have indicated they would be willing to walk for 5 to 10 minutes or up to a 1/2 mile and bike up to 5 miles to their destination points if safe and convenient facilities where available to them. A complete transportation network offers effective transportation alternatives that include walking and biking infrastructure to connect people to their homes, places of work and places of play.
An important element of the Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes was a complete evaluation of the opportunities and constraints present in the study area.
Natural Resources Overview:
The natural resources map displays the percentage of canopy coverage and the flood hazard zones for the Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes Study Area. The map displays the areas that have a 1-percent annual chance of flooding (100-year floodplain), areas that have a 0.2-percent annual chance of flooding (500-year floodplain), and the floodway or the area of land that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.
Cultural Resources Overview:
The Northwest Georgia and Tri-State Region has a rich history dating back hundreds of years. The Chickamauga & Chattanooga National Military Park is the historic driver in the region. The park is the oldest and largest military park in the United States and comprises of several separate elements. Several key historic sites in the study area include: the Chickamauga Battlefield, the Old Stone Church, the Ringgold Depot, the John Ross House, and the Chickamauga Coke Ovens.
Land Cover Overview:
Land cover refers to the vegetation and artificial structures that cover the land’s surface, such as, trees, grass, wetlands, along with buildings and pavement. Land cover is often a reflection of land use. For example, if crops cover an area of land, one can assume that the land’s use is agricultural. However, the correlation between the land cover and land use is not always so clear. If an area of land is covered with trees, the land use could be recreation, conservation, commercial logging, or something else.

Land cover data can be used to assess environmental health, visualize the spatial patterns of biodiversity, predict and manage land development patterns of the Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes Study Area.

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Existing Bike & Pedestrian Facilities Overview:
Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes Study Area currently has several bikeways and pedestrian facilities existing. There are several state bike routes, a U.S. Bicycle Route, multi-use paths, and numerous sidewalks and walking trails.

The U.S. Bicycle Route in the study area is U.S. Bicycle Route 21 (USBR 21) and is Georgia’s first U.S. Bicycle Route designation that connects Atlanta to Chattanooga. It will eventually connect Atlanta to Cleveland, Ohio, when it is complete.

There are three State Bike Routes in the study area. One of which being, Georgia Bike Route 5 (GABR 5) - Chattahoochee Trace, which runs the western part of Georgia for 408 miles from the Tennessee border in Lookout Mountain to Lake Seminole in the south. Georgia Bike Route 35 (GABR 35) - March to the Sea, runs 428 miles from Rossville southwest to Savannah on the coast. Georgia Bike Route 90 (GABR 90) - Mountain Crossing, runs 210 miles from Cloudland Canyon east to Tallulah Falls across the northern part of the state.

At the time of this study it is understood that the State Bike Routes have not been utilized to a large degree. This limited use would appear to correlate with the routes that have heavy, automobile traffic and high speed.

Existing Bike & Pedestrian Facilities

Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes Study Area currently has several bikeways and pedestrian facilities existing. There are several state bike routes, a U.S. Bicycle Route, multi-use paths, and numerous sidewalks and walking trails.
Existing Facilities

Wildwood & Lookout Mountain:

At the western edge of the study area, located just south of the TN-GA state line and lying along US Hwy 11 (Birmingham Pike) in Lookout Valley is the Dade County, GA community of Wildwood with a US Post Office and a couple of small commercial areas, one just off I-24 Exit 169. There are no existing traffic signals on US 11 from the TN-GA state line to Trenton (which is outside the study area limits) and there do not appear to be any signed GA Bike Routes in this area. Main line NSRR tracks run parallel, adjacent to and east of US 11. Wildwood is a rural community comprised of the farms, fields and forests one would expect. There is also a scenic and historic segment of the Old Birmingham Highway, east of the NSRR right-of-way (with access points to US 11 and NSRR track grade separations at each end). There do not appear to be any bicycle or pedestrian facilities in the Wildwood area.

East of Wildwood, but over 1,000 feet higher in elevation is the City of Lookout Mountain, GA, in Walker County. Although many of the most popular Lookout Mountain visitor attractions may be located in TN (including the Incline Railway, Ruby Falls, the Battles for Chattanooga Museum) and Point Park as well as other units of the Chickamauga & Chattanooga National Military Park (C&CNMP), etc.; in adjacent Lookout Mountain, GA is family-owned and operated world famous Rock City and Fairyland Caverns as well as other frequented sites. Collectively, these attractions bring an estimated 400,000 visitors to Lookout Mountain each year.

The Incline Railway alone ferries 160,000 passengers annually, including commuters. The Guild Trail in TN already facilitates hiking and biking along the moderately-sloping bed of an abandoned trolley track, enabling connections from other trails along the side slopes of Mountain around Point Park to the valley below via the east flank of the Mountain and into the Chattanooga community of St. Elmo.

The City of Lookout Mountain, GA, has a population of a little less than 1,600 that has been in a modest decline for decades. The City is adjacent to the Dade County campus of Covenant College with its current enrollment of over 1,000. Since most neighborhood street and rights-of-way are narrow, steep and often winding, there have been only very limited opportunities for bicycle or pedestrian facilities within the City, but there are several networks of natural-surface trails in the vicinity and a heavily-used concrete sidewalk along Lula Lake Road is in place which links Fairyland Elementary School in Lookout Mountain, GA with the state line at Lookout Mountain, TN. In addition, several neighborhood streets have also been striped and signed for one-way vehicular traffic to accommodate for pedestrians and bicyclists, primarily to facilitate access to this Elementary School.

Lookout Mountain, GA is also currently in the process of redeveloping its Town Center. Given the vintage Fairyland theme found in its street names, community design, Rock City and the Fairyland Club, the City has long been associated with tourism. Although overnight accommodations may be easier to find in Lookout Mountain, TN and Chattanooga, there are lodgings within Lookout Mountain, GA, such as the Chanticleer Inn and Garden Walk Bed & Breakfast. The City is currently exploring opportunities for hiking, sidewalks and multi-use trail system connections to the points of interest within the City and to the surrounding communities. Just as in Wildwood, there do not appear to be any GA Bike Route alignments currently mapped or signed in the Lookout Mountain portion of the study area.

In addition to Covenant College, among other features south of the City of Lookout Mountain, GA, are properties of the Lula Lake Land Trust (LLLT) with its extensive trail network and plans for a multi-use trail connection to Cloudland Canyon State Park, still further south (and outside of the study area). LLLT is comprised of hundreds of acres of natural and scenic land and with its own internal hiking/biking trails, network, including portions of the old abandoned Durham Coal rail bed which descends along the eastern flank of Lookout Mountain from the plateau down to the Chattanooga Valley floor at the old “Chenchat” intersection with the old TAG railroad, south of the Flintstone community. Other remaining traces of this old Durham Coal rail bed can also be found extending even further east into the City of Chickamauga.
**Chattanooga Valley & Fairview:**

Further east and approximately the same 1,000 feet back down in elevation from the Lookout Mountain plateau is Chattanooga Valley. In addition to the community of Flintstone, Chattanooga Valley and Fairview are both also designated as “places”, used by the United States Census Bureau (USCB) for statistical and demographics monitoring. These communities are rural and / or low-density suburban in character and currently offer only very limited tourist appeal; however, located here is not only a portion of the long-abandoned Durham Coal Company railroad but also the bed of the also long-unused and derelict north-south-running Tennessee-Alabama-Georgia (TAG) railroad line that runs from the Chattanooga community of St. Elmo south past Blowing Spring and on through Flintstone, Chensiat and High Point and as far south as McLemore Cove and Kensington (both well outside of the study area), offering the potential for unique multi-use trail experiences along these former railroad beds.

Happy Valley Road connects Flintstone further east with Rossville Middle School and Ridgeeland High School and provides a connection route north to the City of Rossville. Similarly, Turner Ridge Road and Cora Ann Drive connect the Middle School east to Mission Ridge Road, which intersects north to the McFarland Gap Road (the primary west-to-east Fairview corridor), which travels further east through the Chickamauga Battlefield and beyond. Branching off Mission Ridge Road to the southeast, Lytle Road parallels (and twice crosses) tracks of the Chattooga and Chickamauga Railway (C&CR) as it also runs southeast from Mission Ridge Road and along the western edge of the Battlefield on to Chickamauga, LaFayette, Trion and Summerville.

As currently mapped and signed, GA Bike Route 21 enters Chattanooga Valley into Flintstone on SR 341 (Chickamauga Road and Old Chattanooga Valley Road) from the southeast and exits to the north on Old Chattanooga Valley Road toward St. Elmo in Chattanooga. As also currently mapped and signed, GA Bike Route 321 enters Chattanooga Valley and Flintstone on Happy Valley Road from the northeast via SR 2 (Battlefield Parkway) and apparently unapproved alignments within the Chickamauga Battlefield and joins with GA Bike Route 21 in Flintstone.

Although not signed, GA “March to the Sea” Bike Route 35 is currently apparently still mapped to enter the study area from the south along US 41 and into Ringgold, where it then turns west onto SR 2 (Battlefield Parkway) and continues along that route through Fort Oglethorpe and then along the northern perimeter of Fairview to McFarland Gap Road / McFarland Avenue, where it travels north into Rossville, from which it follows US 27 (Rossville Boulevard) into Chattanooga. There do not appear to currently be any bicycle or pedestrian facilities within the Chattanooga Valley or Fairview portions of the study area.
Chickamauga:

South of Chickamauga Battlefield and well off US 27 (LaFayette Road), the City of Chickamauga provides a step back in time to a very walk-able historic mill town core with cultural heritage sites that can provide an unexpected and very interesting visitor experience. As with Fort Oglethorpe, Chickamauga is located adjacent to the Battlefield and is therefore an important gateway to the military heritage of battles fought there during the Civil War.

Chickamauga is also home to the Veterans of All Wars Museum and Crawfish Springs Park, both of which appeal to the historic and military heritage tourist. The streets and avenues of the City will also tell their own story of that military history, with names of such famous generals as Longstreet, Crittenden, Hood and Stewart. Holland-Watson Veterans Memorial Park is another important heritage site for both veterans and military buffs. Chickamauga also offers an understanding of its Cherokee Heritage and the Trail of Tears. Most prominent of these is the site of the Cherokee Courthouse, just across the road from Crawfish Spring, named for Cherokee Chief Crayfish, who lived here before the Removal.

Lee & Gordon’s Mills, the Gordon-Lee Mansion, and the Walker County Regional Heritage and Model Train Museum as well as the site of the Durham Iron and Coal Company and the old Chickamauga Coke Ovens (now Coke Oven Park) provide a look into the industrial heritage of Chickamauga. Open on weekends during summer months, the Gordon-Lee Mansion is a focal point of the old City and the Lee & Gordon’s Mills accommodates weddings and other special events that bring even more visitors into this area as tourists. The Veterans of All Wars Museum alone receives over 4,000 visitors annually.

The Tennessee Valley Railroad Museum in Chattanooga also operates excursion trains to and through Chickamauga (“The Chickamauga Turn”), providing more direct tourism links from Chattanooga. Based on sample data provided by the Museum, the train hosts approximately 2,000 passengers per year on the 16 trips from Chattanooga to Chickamauga which also stop at the Wilder Tower Monument in the Chickamauga Battlefield. Even more Chickamauga stopover time may eventually be possible as dining options increase and become more available to rail passengers.

The existing West Chickamauga Creek Blueway begins on a canoe launching site just below the Lee &Gordon’s Mills dam and enables canoeists and kayakers to paddle downstream (past a number of other canoe launch sites) to Camp Jordan Park in East Ridge, TN or, if ambitious enough, all the way down to the Tennessee River.

In addition to downtown streetscaping and plans to enhance and extend existing sidewalks and multi-use trails to connect its activity centers, GA Bike Route 21 has currently been mapped and signed to enter Chickamauga from the south via Glass Mill Road and exit north along SR 341 toward Flintstone in Chattanooga Valley. GA Bike Route 321 has similarly been mapped and signed to also exit north from Chickamauga but along Lee Avenue and Five Points Road to Osburn Road and then eventually entering Chickamauga Park on an alignment where bikes are apparently prohibited. Despite dramatic population growth between 2000 and 2010, Chickamauga population growth since then has been very sluggish and stands at approximately 3,100.
Inventory & Analysis
Northwest Georgia
Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

Rossville & Lakeview

20

Inventory & Analysis

Ragan-Smith
Existing Facilities

Rossville & Lakeview:

The City of Rossville provides an important and primary gateway from Chattanooga into the study area, but at present offers few sites of significance that are marketed to visiting tourists. The Chief John Ross House (located at 200 East Lake Avenue) is a Cherokee Heritage site that was once home to the Principal Chief of the Cherokee Nation and who long negotiated extensively, but unsuccessfully against Removal until he and the rest of his tribesmen were forced west by the US Government on the infamous Trail of Tears. Two small spring-fed ponds and security fencing around the site may not be particularly conducive for tourism. Based on data supplied by the City, it is estimated that only about 1,000 people visit the Ross House each year, and that number is declining. After decades of a declining population, however, Rossville has risen to a population of approximately 4,000 and has remained somewhat steady at that level for several years.

In addition to an existing network of concrete sidewalks throughout Rossville, which connects to both Fort Oglethorpe on the southeast and Chattanooga on the north, GA “March to the Sea” Bike Route 35 is apparently still mapped (but not signed) to enter Rossville from the south along McFarland Avenue and exit north along US 27 (Rossville Boulevard) into Chattanooga. Although its sidewalk network is old and in places needs repair, enhancement and improved internal interconnections, a pedestrian can walk from Rossville to Fort Oglethorpe or into the Chattanooga suburbs of East Lake, Highland Park and East Chattanooga as well as downtown Chattanooga and points far beyond. The City has current plans for improving its sidewalk system and creating a greenway and multi-use trail network to better inter-connect its activity centers and points of interest.

Like Chattanooga Valley and Fairview, Lakeview is an unincorporated community, but is also a USCB-designated “place”. Currently, it does not appear to have any facilities specifically for pedestrians. In western Lakeview, near Rossville and Fort Oglethorpe, GA, and East Ridge, TN, is the family-owned and operated Lake Winnepesaukah amusement park, which has offered amusements, rides and family entertainment to visitors since 1925 and recently added a water park feature as well. The 280-acre Park features the traditional amusement park experience to guests and attracts an annual attendance in the hundreds of thousands, primarily from within a 250-mile radius of the tri-state (TN-AL-GA) area around Chattanooga. Despite this, there are currently no bike or pedestrian access facilities to Lake Winnie or elsewhere in western Lakeview.
Chickamauga & Chattanooga National Military Park:

In the heart of the study area is the Chickamauga Battlefield of the Chickamauga & Chattanooga National Military Park (C&CNMP). The Battlefield is located adjacent to Fort Oglethorpe and just north of Chickamauga and is a primary driver for most of the military heritage tourism throughout the entire region, especially if focused on the Civil War. The Park is the oldest and largest National Military Park in the US and is comprised of over a dozen separate major sites (units) including the Chickamauga Battlefield and Point Park (at the northern “point” of Lookout Mountain) and a series of Missionary Ridge reservations, Orchard Knob and many more monument and plaque sites scattered throughout the area.

The Park experienced a rapid increase in annual visits following World War II, but has since been relatively stable at around a million visits per year in recent decades. Unexpectedly, attendance did not spike in 2013, during commemoration of the sesquicentennial of the Battle of Chickamauga and Battle of Chattanooga; however interest and attendance continues to remain strong year round.

The primary C&CNMP site within the study area is Chickamauga Battlefield and Visitors Center, including the Wilder Brigade Monument (Wilder Tower), and recreation fields. The other most significant sites (units) are primarily located in Tennessee, in and around Chattanooga. There is also a small Park Visitors Center located in Lookout Mountain, TN, which provides an indication of the heritage visitor count that might be interested in accessing trails into Lookout Mountain, GA. Recent surveys conducted by the National Park Service (NPS) provide an indication of participation levels for various activities within the Park, several of which are applicable to this study. Over 50% of Park visitors participated in hiking and walking or jogging within the Park. That percentage translates to over 500,000 visitors or over 300,000 on C&CNMP sites within the study area. The survey also indicated that about 5% of regular visitors already bike in the Park, a share which translates to about 50,000 bikers, over 32,000 of them within the study area.

During 2013 National Park Service (NPS) rangers led Battlefield Bike Rides one Saturday each month, which started at the Visitors Center. It should be noted that the Park Service does not offer biking trails, per se, nor does it encourage bicycling through the Park for mere recreational or thru-transportation purposes. The Park is intended as a memorial, an educational experience, and a way to study the Battle and honor those whose lives were lost or altered in it. That being said, biking tours can and should be a way to learn about the Battlefields and these are encouraged. In addition to NPS-sponsored rides, the Park is also host to the annual Chickamauga Battlefield Marathon. Although limited to 1,500 participants, it attracts many runners and spectators from near and far away. Chickamauga Battlefield is inter-laced with a network of natural surface and crushed stone hiking and horseback trails and the asphalt-paved road network is suitable for biking as well as vehicular use. GA Bike Route 321 has apparently been mapped and signed to enter the Park from Chickamauga on the south via Osburn Road, entering onto the internal roadway network and then use those internal Park trails (some of which are prohibited from bicycle use) to cross through the Park and exit it west on McFarland Gap Road and into Fairview and beyond.
Fort Oglethorpe, Indian Springs, & Graysville:

Strategically located just north of the Visitor Center for Chickamauga Battlefield, just south of the City of East Ridge, TN and mid-way between Lookout Mountain and Ringgold, the City of Fort Oglethorpe is an important regional center of military heritage. Originally founded as a response to the Spanish-American War, it began operations in 1902 and has served as an elite US Army Cavalry Post and military base. Many historic components of the original old “Post” remain as testament to its legacy as the home of the 6th Calvary, an induction center during WWI and WWII that housed German POWs and enemy civilians. It also served as a major training post for the Women’s Army Corps (WACs) during WWII. After the end of WWII, the Post was declared surplus and purchased to be redeveloped as a new municipality. Due to the combination of both annexation as well as internal growth, the population of Fort Oglethorpe has increased rather dramatically over its almost seven decades of existence such that it now stands near a population of 10,000.

Fort Oglethorpe is an important gateway to the Battlefield. Post history is reflected in a number of specific sites as well as a National Register Historic District. In the center of the District is Barnhart Circle, which surrounds the original Parade Ground and on which much of the original officer housing still stands from Old Post days. Although some of the older houses and other buildings have been demolished over time and replaced by sometimes incompatible buildings that may distract from the historic character of the Post, there remain a sufficient number of the old buildings around the Parade Ground to clearly evoke a picture of the historic past of the Fort Oglethorpe cavalry post. Additionally, just off of Barnhardt Circle there are many other old significant Post buildings. For example, Absolute Fit Inc is located in the old Post PX. Tootsie’s Treasures consignment shop occupies the old Post Gym. Several old warehouses located between the Parade Ground and Battlefield Parkway once housed stables for Post horses and supplies. The 6th Cavalry Regiment Museum houses the artifacts, including weapons, photos, uniforms, vehicles and other collections commemorating the “Fighting Sixth” Cavalry stationed at the post from 1919 to 1942.

In addition to the extensive network of existing concrete sidewalks found throughout the City of Fort Oglethorpe which connects it, via US 27 (LaFayette Road), to Rossville as well as Chattanooga, the City has also provided the Black Branch Greenway which connects the Battlefield Drive neighborhood to the City Hall campus, Gilbert-Stephenson Park, and other City recreational parks, including the Frank M. Gleason Nature Park to the Harker Road multi-use trail, which is connected to the Barnhardt Circle Multi-Use Trail. The City has plans to connect the City Hall campus and Battlefield Drive neighborhood east to Lakeview-Fort Oglethorpe High School and an existing segment of the West Chickamauga Greenway Multi-Use Trail on the eastern end of the City via the Battlefield Parkway Multi-Use Trail. Other plans call for future connections north along Old LaFayette Road, Mack Smith Road and West Chickamauga Creek as well as southwest to the Chickamauga Park Visitor Center, west to the Cornerstone Medical Center Campus and Park City.

The existing West Chickamauga Creek Blueway flows north and across the eastern end of Fort Oglethorpe. The Blueway includes a canoe launch just south of SR 2 (Battlefield Parkway) where a short segment of the West Chickamauga Creek Greenway has been constructed. Although not signed, GA “March to the Sea” Bike Route 35 has been mapped to cross through the City along SR 2 (Battlefield Parkway). No other current GA Bikeway Route is mapped or signed to connect into Fort Oglethorpe.

Like Chattanooga Valley, Fairview and Lakeview, Indian Springs is an unincorporated community, but also a USCB-designated “place”, which includes Graysville, where an old mill and dam were once a center of activity. Many new residential communities have been developed within the Indian Springs area of Catoosa County south to the Poplar Springs community and many of them feature concrete sidewalks, but none are inter-connected with one another. Peavine Valley has a number of school sites, including Graysville Elementary School, Boynton Elementary School, Heritage Middle School and Heritage High School. In addition, the Benton Place Campus, Jack Mattix Recreation Park and Boynton Recreation facilities are found along this Peavine Creek corridor. There is a walking course around Jack Mattix Park and plans have been made for a future Peavine Creek Greenway from the Middle School to Graysville. Although once a municipality, Graysville is now merely a busy crossroads community with an old historic core which serves as a center for the growing residential areas around it. Other than in some of these new residential subdivisions, there are also currently no pedestrian or bicycle facilities in Graysville.
Ringgold:

The City of Ringgold is the County Seat of Catoosa County and provides what may be the largest intact historic downtown area of any community in the study area, with a charming business district which includes sites of interest to visitors of all sorts. The old Ringgold Depot of the Western & Atlantic Railroad (W&ARR now operated by CSX), is one of the most important of these heritage sites, offering historic context relating directly and specifically to the Civil War. According to the Main Street organization for Ringgold, this Depot hosts over 12,000 visitors each year for weddings, concerts, a Halloween Haunted House, and other special events. Most guests live within an approximately 100-mile radius. Other heritage sites nearby include the Old Stone Church, the “General” Monument, and the Atlanta Campaign Park in Ringgold Gap, where Confederate General Patrick Cleburne held off advancing Union troops during the Battle of Ringgold Gap.

Since 1990, the population of Ringgold has more than doubled and although it now has a current population of almost 3,800, its commercial business districts serve a much larger population from many of the surrounding areas. The Ringgold downtown area offers a charming and walk-able historic setting for tourists and locals alike, with a pleasant mix of businesses including restaurants, antique and specialty shops as well as grocery and convenience goods. History has been well-interpreted by the Main Street agency and the sites there are clearly marked with historical contexts explained. Among significant sites are Barger Bridge and the Ringgold Feed & Seed building which has been converted to tourist-oriented retail use. While the downtown mix includes businesses common in any County Seat, such as attorney and real estate offices, insurance agencies, newspaper, barber shop and hair salons, as well as the local government services facilities, etc., Ringgold also provides a large number of tourist-oriented businesses. Residents from all throughout the area come to walk their dogs, walk, bike or hike trails, or just to explore. In addition to the pedestrian and multi-use facilities already in place, Ringgold has plans for expansion and enhancement of its network throughout the City, including extending a greenway multi-use trail up Little Chickamauga Creek under I-75 to the Poplar Spring Fields located in the Rollins Industrial Park.

Like Fort Oglethorpe, Downtown Ringgold also hosts a business that is particularly well-suited to the expansion of the region’s trail system: Above the Ridge Outfitters, which supplies hiking, biking and camping gear; as well as golf apparel, footwear, and accessories for a number of other activities. Having just expanded to its current 3,000-square-foot facility in 2016, Above the Ridge Outfitters has served the Ringgold community since 2012. The owners estimate that about 85% of their business is generated from within the greater Chattanooga region, particularly in areas not already served by other outfitters. An estimated 60% are residents of surrounding areas of northwest GA - Ringgold, Dalton, and Tunnel Hill; another 30% reside in Chattanooga, East Ridge, Ooltewah, and other TN suburbs. Overall, about 25-35% of customers are hard-core recreation enthusiasts – hikers, walkers, bikers and others requiring apparel for their sports or other activities.

Although not signed, GA “March to the Sea” Bike Route 35 enters the study area from the south along US 41 and enters Ringgold, turning west on SR 2 (Battlefield Parkway) to Fort Oglethorpe, Fairview and Rossville, where it turns north on McFarland Gap Road to US 27 (Rossville Boulevard), where it enters Chattanooga. No other Bike Routes have been designated in Ringgold.

North of Ringgold is the Ooltewah-Ringgold Road (SR 151) corridor which, among other things, features a historic monument at the site where the locomotive “General”, rolled to a stop during the Great Locomotive Chase. The Elsie A. Holmes Nature Park is also along this corridor. Other communities that surround Ringgold within the study area are Cherokee Valley, Sailem Valley and Keith Communities to the northwest, Dogwood Valley and Houston Valley on the southeast and Wood Station, south of Ringgold on Old Alabama Road / Alabama Highway (SR 151). Other than US 41 south to Tunnel Hill (outside of the study area), the Old Stone Church historic site and the 1,800-acre Catoosa Rifle Range (operated by the TN National Guard), these far eastern and southeastern reaches of the study area are very rural in nature and farther distant from any Chattanooga area activity centers.
There are several methods for incorporating pedestrian, bicycle, and paddle connections into the transportation and recreation system. This part of the study establishes what types of facility options could apply to the study area and basic design guidelines for each facility type. Additionally, general rules of the road for pedestrians and bicyclists are explained as an educational background for facility operations and maintenance.
Sidewalks provide people with space to travel within the public right-of-way that is separated from vehicles on the road. They provide space to walk, wheelchair roll, run, and skate. Bicyclists are allowed, but not encouraged, to ride on the sidewalk in our area but must yield to pedestrians.
Natural surface trails are typically used in areas that will see lighter pedestrian traffic, such as an access point from one area to a larger route. These trails can be made of several different types of materials that are compacted into a more solid surface. Due to the surface materials and terrain, most trails cannot be easily traveled by anything other than pedestrians or bikes specifically designed for rough terrain.
Bike routes have directional and informational signage for bicyclists, signs that say “share the road” or “bike route”, and/or shared lane pavement markings. Signs and markings help alert drivers that bicyclists may be on the roadway. Except when prohibited by law, all roadways are to be shared by bicycles and motor vehicles, even when bicycle signs and markings are not present.
A Bike Lane lends itself well to both low volume and low speed local streets as well as longer distance and regional connectivity throughout rural areas. This facility could be extremely affective in all of the study area municipalities: Lookout Mountain, Chickamauga, Ringgold, Rossville and Fort Oglethorpe. A Bike Lanes can greatly reduce pedestrian and bicycle collisions, provided there is necessary room for users and a visual stripe separation for vehicles. The challenge with this facility again is that many of the roadways which could otherwise accommodate this facility based on traffic volume and speed are too narrow, have numerous topographical challenges, and poor sightlines (both to see potential users and oncoming vehicles to pass). Typically, this would be a simple restriping exercise; however, this treatment could be costly to construct as a regional connector due to these topographical challenges and limited available right-of-way.
Protected bike lanes are on the roadway but are separated from automobile traffic. Buffered bike lanes are separated from traffic by a marked buffer space but are not physically separated from traffic. Separated bike lanes are separated from traffic by a physical barrier such as parked cars, bollards, a curb, a landscaped buffer, or by raising the lanes above street level.
It is interesting that a Shared Use Path and Sidepath have different terminology for the same facility type based upon its location relative to the adjacent road. Rather than the term “Greenway”, this facility should be referenced as a Shared Use Path. Obviously this is the facility type for a majority of the proposed routes connecting the study area. The team has heard many leaders of the steering committee point in this direction. A Shared Use Path lends itself well as the leader in low stress facilities throughout the study area. This facility can be extremely effective in all of our study area municipalities: Chickamauga, Ringgold, Rossville and Fort Oglethorpe, as well in connections between them; and conversion of existing abandoned rail beds to Shared Use Path facilities would also enable Lookout Mountain to be connected with other communities in the valley below.

Shared Use Path use greatly reduces conflict between users and motorists. An overwhelming majority of such conflicts are present at intersections and street crossings. It is imperative to provide safe, visible, and easily navigable crossings for all users. The challenge with this facility is going to be costly due to topographical issues and limited available right-of-way.

Shared Use Path use would appear to be the leading facility for successful implementation in the study area. Shared Use Path facilities could help to both further interconnect and build on the networks within individual communities as well as more effectively provide new connections to other communities.
The Advisory Shoulder lends itself well to more local streets throughout urban centers even in rural areas and has the potential to be used on larger collector roads. This facility could be extremely effective in all study area municipalities: Lookout Mountain, Chickamauga, Ringgold, Rossville and Fort Oglethorpe.

Again, Advisory Shoulder applications are not recommended for connections between communities within the study area. Many of the roadways that could otherwise accommodate this facility based on traffic volume and speed appear to be too narrow, have numerous topographical challenges, and poor sightlines (both to see potential users and oncoming vehicles to pass).
The Yield Roadway lends itself well to low volume and low speed (25 mph or less) local streets throughout the small town urban centers with a network of streets or in rural areas with more densely-developed residential neighborhoods. This facility could be extremely effective, particularly in Lookout Mountain, Chickamauga, and Ringgold, as well as in parts of Rossville and Fort Oglethorpe and scattered neighborhoods of the unincorporated parts of the study area.

Two important feature of the Yield Roadway facility to embrace are narrow lanes and not marking a center line. These two treatments in tandem introduce traffic friction and help slow vehicle speeds.

Yield Roadway applications will help further interconnect and build on the network in a single municipality, community or neighborhood network, but are not recommended for connections from community to community.
The Bicycle Boulevard also lends itself well to low volume and low speed (25 mph or less) local streets throughout the urban centers and in rural areas with a better-defined grid network of streets. This facility could also be extremely effective in Lookout Mountain, Chickamauga, and Ringgold. Similarly, selected areas within Rossville and Fort Oglethorpe could also have streets that would allow implementation of this facility type.

Like the Yield Roadway, Bicycle Boulevard applications are more useful within a community and not recommended for connections between communities.
Key Elements of a Blueway Design:

- Multiple access (launch) points to the water at intervals ranging from three to six miles apart.
- Maps designating the blueway routes and estimated travel times for paddling between access points.
- Potential water hazards should be identified using the American Whitewater definitions. Classifications range from Class I - mostly little current or obstruction, to Class V - whitewater, large waves, large volumes, and the possibility of large drops requiring skilled maneuvering.
- Information regarding possible hazards should be provided to blueway users.
- West Chickamauga Creek, South Chickamauga Creek, and the Tennessee River perform at or below Class I waterways, with little to no challenge from current or waves.

Blueway launch points should consider the following design features:

1. Easy access to parking and/or pull-off areas from the nearby road network with an easily navigated pathway free from obstructions. Access should comply with ADA criteria.
2. A hard, level landing and loading area at the waters edge with an area of at least 60”x60”.
3. A dock, ramp, or rail system that provides for stabilization of the watercraft while people transfer in and out of the water.
4. A push-in or launch section that provides for enough water depth to float a loaded craft.
5. Erosion control and bank protection for exposed stream or lakeside slopes next to the launch.
6. Safety signage identifying state requirements for life jackets, night time operation, fishing regulations, and other basic water safety considerations.

Overview:

- Blueways are water-based networks designed for paddlers. They function much like greenways in that they provide a different mode of recreational travel. They also provide a unique view and experience for residents and visitors using the Northwest Georgia Region that could not be experienced from land-based transportation.
- The Northwest Georgia Region has strong connections to adjacent waterways. West Chickamauga & South Chickamauga Creeks have several opportunities that will interface with the proposed multi-use routes. Existing canoe launches provide opportunities for canoe, and kayak users to connect to the Tennessee River. Additional canoe and kayak launch points could easily be implemented to provide variable opportunities for comfortable blueway routes and easy access to the water as a recreational outlet.
- West Chickamauga & South Chickamauga Creeks connect to the Tennessee River, which is a part of a much larger blueway network that extends across the Southeast.
Rules of the Road: Pedestrians

COMMON DRIVER VIOLATIONS:

PEDESTRIAN + CROSSWALK = STOP:

STOP for a pedestrian in a crosswalk when the pedestrian is any-
where on your side of the road. Side of the road means all lanes
of traffic going in one direction.

COMMON DRIVER VIOLATIONS:

FAILING TO STOP FOR PEDESTRIANS:

STOP for a pedestrian in a crosswalk when the pedestrian is ap-
proaching and in the lane next to your side of the road.

TURNING BEHIND OR IN FRONT OF
PEDESTRIANS IN A CROSSWALK

Before turning right of left on a green light, STOP for
pedestrians. They have the right-of-way.

BLOCKING THE CROSSWALK

You must stay stopped until the pedestrian has finished crossing
the side of the road onto which you’re turning. Don’t bully
pedestrians with your vehicle. They have the right of way. Never
turn into a crosswalk when pedestrians are still using it.

Always stop behind the crosswalk, not in it. Blocking the
crosswalk with your vehicle forces pedestrians into moving
traffic.

Georgia law requires you to stop for a pedestrian in the crosswalk,
even when the pedestrian isn’t in your lane.
Rules of the Road: Bicyclists

GEORGIA BICYCLE LAWS:

**HELMETS:**
No person under the age of 16 years shall operate or be a passenger on a bicycle on a highway, bicycle path, bicycle lane, or sidewalk under the jurisdiction or control of this state or any local political subdivision thereof without wearing a bicycle helmet.

**LIGHTS:**
Every bicycle when in use at nighttime shall be equipped with a light on the front which shall emit a white light visible from a distance of 300 feet to the front and with a light on the back which shall emit a red light visible from a distance of 300 feet to the rear. Any bicycle equipped with a red reflector on the rear that is approved by the Department of Public Safety shall not be required to have a light on the rear of the bicycle.

**RIDING ON SHOULDERS:**
Any person operating a bicycle may ride upon a paved shoulder; provided, however, that such person shall not be required to ride upon a paved shoulder.

**RIDING ON SIDEWALKS:**
Except as provided by resolution or ordinance of a local government for sidewalks within the jurisdiction of such local government authorizing the operation of bicycles on sidewalks. No person shall drive any vehicle upon a sidewalk or sidewalk area except upon a permanent or duly authorized driveway.

**TAKING THE LANE:**
Every person operating a bicycle upon a roadway shall ride as near to the right side of the roadway as practicable, except when:
1. Turning left.
2. Avoiding hazards to safe cycling.
3. The lane is too narrow to share safely with a vehicle.
4. Traveling at the same speed as traffic.
5. Exercising care when passing a standing vehicle.

**3' PASSING**
When feasible, the operator of a vehicle, when overtaking and passing a bicycle that is proceeding in the same direction on the roadway, shall leave a safe distance of 3' or greater between such vehicle and the bicycle, while maintaining such clearance until safely past the overtaken bicycle.
Project Overview:
Understanding the legal and practical relationship of pedestrians, bicycles and vehicles on the public roadway network is critical for enforcing safe travel habits for all type of transportation. The physical implementation of pedestrian and bicycle facilities will need to be accompanied by an educational effort to ensure that the rules of the road are understood by both residents living and working in the Northwest Georgia area and visitors traveling through the region. The rules of the road should be part of any promotional efforts that encourage use of the multi-modal transportation in the region. This will help to encourage safe travel and it will help to create a culture that supports recreational opportunities for pedestrian and bicycle networks.

Rules of the road should be communicated in the following venues:
- Schools and educational centers
- Chamber of commerce literature and marketing efforts
- Places of commerce and tourism destination points
- Parks and recreation centers
- Hotels and visitor centers
Establishing Multi-Use Routes

After evaluation of the opportunities and constraints for the Northwest Georgia region along with input from stakeholders and local municipalities, the team was able to develop a strategy for proposed multi-use routes and facility types based on the results from the Inventory & Analysis and economic assessment.
Establishing Multi-use Routes
Northwest Georgia
Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

Overview:
Proposed multi-use facilities in the study area have been established based on several different perspectives. The first perspective utilizes a Demand Analysis Map. This map depicts the opportunities and constraints of physical infrastructure and resources in the study area based on transportation and recreational opportunities. The second perspective evaluates facilities based on the type of user with considerations of safety and comfort. The third perspective evaluates economic assessments, impacts and recommendations as presented in detail in the Economic Development Chapter. These perspectives have been used to prepare maps depicting physical routes. In addition to physical routes a plan has been generated to brand particular portions of these routes with the intent of initiating specific economic growth and tourism opportunities.

Physical Infrastructure:
The proposed multi-use routes shown for the study area incorporate a combination of demand and opportunity. Through analysis of transportation and recreational factors, the best physical locations for pedestrian and bicycle routes have been identified. These locations are plotted out on the Overall Proposed Routes Map as possible physical infrastructure improvements.

The Larger Vision:
Beyond the physical infrastructure there is a broader and deeper vision for multi-use trails in this region of Northwest Georgia. That vision is to create a wide network of prospects that potential users can tap into. The appeal of these prospects will come from the unique beauty of the landscape and the large contrast in cultural experiences that are accessible along proposed multi-use routes. Several levels of experience will be available to potential users, drawing people back to the region for more than one visit and for extended visits.

A Culture of Walking, Cycling, & Paddling to Prosperity:
There is an existing excitement in the region that connects to the outdoor activities of walking, hiking, biking and paddling. Much of this excitement has started north of the study area in the City of Chattanooga with a strong pedestrian, bicycle and watercraft culture, but it has also established itself in some of the smaller communities of Northwest Georgia like Ringgold, Fort Oglethorpe, Chickamauga, and Rossville in the form of well-loved local greenways and trail systems. The addition of a canoe and kayak launch site along the South Chickamauga Creek in Graysville has proven to be hugely popular for recreational use. Lookout Mountain, Lula Lake and Cloudland Canyon State Park are already areas that draw large numbers of outdoor enthusiast. Visitors to the Chickamauga & Chattanooga National Military Park also tap into this culture with 53% of its one million annual visitors participating in hiking, walking or jogging in the park and 5% participating in bicycling activities.
Demand Analysis Heat Map Methodology:

Proposed trail system expansion and connections within the study area were mapped out in consideration of the opportunities and constraints identified from a comprehensive inventory of the study area using available high level GIS data from various sources. A “heat map” has been generated that highlights areas with the highest potential demand for pedestrian and bicycle facilities.

Bike and pedestrian facilities that connect communities within Northwest Georgia can serve the dual function of transportation and recreation to residents and visitors. In order to develop a comprehensive regional network, a clear understanding of the demand for biking and walking is essential. Demand refers to the number of potential users within a specific area if safe and comfortable bike and pedestrian facilities were provided. A demand analysis was conducted using input categories that may be attractors or indicate existing bike and pedestrian activity. Using the demand analysis for the region guided the development of the recommended network alignments and highlights several locations that may benefit from non-motorized infrastructure improvements.

<table>
<thead>
<tr>
<th>Input</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schools</td>
<td>25</td>
</tr>
<tr>
<td>Farmers Markets</td>
<td>15</td>
</tr>
<tr>
<td>Points of Interest</td>
<td>15</td>
</tr>
<tr>
<td>Parks / Battlegrounds</td>
<td>10</td>
</tr>
<tr>
<td>Grocery Stores</td>
<td>10</td>
</tr>
<tr>
<td>Existing Routes</td>
<td>10</td>
</tr>
<tr>
<td>Bike / Pedestrian Crashes</td>
<td>5</td>
</tr>
<tr>
<td>Historical Places</td>
<td>15</td>
</tr>
</tbody>
</table>

Attractors were used for a majority of the inputs for the demand analysis. Each input was weighted to reflect the opportunity for bike and pedestrian activity. Schools are locations that have high potential demand for biking and walking and can attract students if adequate infrastructure is implemented. Additionally, encouraging biking and walking to schools can reduce arrival and dismissal congestion and provides health benefits to students. Other inputs for the demand analysis include categories that depict existing bike and pedestrian activity. These categories include existing trails and bike and pedestrian crash locations. Crash data serves as an indicator of bike and pedestrian activity along with potential hazardous conditions and is a valuable input when conducting demand analysis. The following table includes all of the input factors along with the respective weights.

Recreational Nodes:

The Demand Analysis Heat Map highlights areas that are rich in natural, cultural and historic assets. These high demand areas identified on the “heat map” function as destination nodes for recreational riders as well as tourists. The Chickamauga & Chattanooga National Military Park has been identified as a primary destination for a high number of recreational riders. Cloudland Canyon Park is another key destination for hikers and outdoor enthusiasts. Existing greenways in Ringgold are noted as having high recreational use and value. South and West Chickamauga Creeks are also key recreational assets.

Heat Map Results:

According to recent Federal Highway Administration surveys; most people will walk 5 to 10 minutes or up to 1/2 mile and bike up to 5 miles to reach important destination points. Important destination points are established by the factors mapped on the Demand Analysis Map. Multi-use routes have been placed in close proximity to high demand areas and along routes that connect high demand destination nodes.

Community Input on Demand:

Stakeholder and community input has also been an important factor in evaluating demand. Stakeholders from each of the study area communities where asked to verify inventories of existing pedestrian and bicycle facilities and to identify potential routes considered prior to the study. In every one of these communities the feedback regarding the popularity of existing shared use paths and greenways was always very positive. This confirmed that demand is high for facilities which are perceived to be safe and clearly separated from vehicular traffic. The recreational value of shared use paths and greenways was also confirmed in feedback received elsewhere and from the local communities within the study area.
Demand Analysis Heat Map

Proposed Facilities
Streets
Schools

High
Low

Data Sources:
NWGRC GIS Services Team
GA Statewide Bicycle Network (WSO)
GA Statewide Pedestrian Network (WSP)
GA Complete streets Network (WC)
Low Speed Networks:

Along with the proposed regional bike and pedestrian facilities, there are several opportunities to enhance the non-motorized environments within individual communities using existing low speed street networks. New facilities for biking and walking along low speed streets can attract users of all ages and abilities and can link local users to the regional trail system along with regional trail users to key destinations within each local community. Most the streets within these communities have speed limits of 35 MPH or less within the city limits and could be prioritized for bike and pedestrian improvements such as:

- **Shared streets (Bike Routes)**
- **Bike boulevards**
- **Dedicated Bike lanes**
- **Advisory shoulders**
- **Yield roadways**

Implementation of bike and pedestrian facilities along the low speed streets within each community should be considered on a case-by-case basis to determine the best facility type. Many of the recommended facility types below can be implemented quickly and at a lower cost than new trails and multi-use paths. In many cases, enhancements may be as simple as new striping on existing streets to identify new bike facilities or indicate a new traffic pattern. Key factors to consider for new facility types include but are not limited to:

- **Width of existing roadway**
- **Width of existing right-of-way**
- **Destinations along or connected by each roadway**
- **Number of driveways**
- **Presence street parking**

Connecting new facilities within each community to the proposed regional trail system should be prioritized to develop a more robust bike and pedestrian network. Linking the regional trail system in Northwest Georgia to local bike and pedestrian networks may benefit health and mobility locally, but also may produce economic benefits by attracting regional users and tourists.

The following pages depict maps that illustrate the local street networks for each of the five municipalities within the study area.
General Notes:
The Federal Highway Administration has now adopted Small Town and Rural Multi-Use Network Guidelines, which can be of benefit to planning facilities within the study area. While these guidelines speak more specifically toward connectivity within a community, they also echo the direction of the current Study: both regional as well as community connectivity. Terminology used in this Study references that of Guidelines regarding facility type.

Key Network Opportunities

Speed Management
Speed management through facility type, infrastructure improvements, and enforcement are key to the success of any multi-use project.

School Connections
School connections should be carefully considered. If more children walked or biked to school on a safe facility, traffic congestion would significantly decrease, especially in the am peak hour. Physical separation from a roadway is key to success in a school connection.

Multi-Use Main Streets
Chickamauga and Ringgold have the best potential to take this approach.

Chickamauga has two main streets, Lee Avenue and Gordon Street / 10th Street. Both streets can easily accommodate bicycle lanes or redesign to share the road with the current width of right-of-way. Bulb outs should be redesigned to provide shorter pedestrian crossings.

Ringgold has three main streets, Nashville Street, Tennessee Street, and Lafayette Street and has done a wonderful job creating a vibrant downtown atmosphere for the pedestrian; however, it lacks bicycle accommodations on all three corridors. Through the interdiction of a bicycle boulevard, yield roadway, or simply a shared street, Ringgold could have a multi-use downtown.
Lookout Mountain:

Local Transportation Network Maps

W Sound

Municipality

Proposed Facility

Speed Limit

- 25 MPH
- 30 - 35 MPH
- 40 - 45 MPH
- > 45 MPH

Establishing Multi-use Routes
Establishing Multi-use Routes
Northwest Georgia
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Local Transportation Network Maps

Rossville:
Establishing Multi-use Routes

Northwest Georgia
Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

Chickamauga:

Local Transportation Networks

Chickamauga:

Speed Limit

- 25 MPH
- 30 - 35 MPH
- 40 - 45 MPH
- > 45 MPH

- Municipality
- Proposed Facility
Establishing Multi-use Routes

Northwest Georgia
Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

Fort Oglethorpe:
Establishing Multi-use Routes

Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

Local Transportation Network Maps

Ringgold:

<table>
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- Municipality
- Proposed Facility
Establishing Multi-use Routes
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Safety & Comfort of Users

Routes Established Based on Confidence Level of User

It is beneficial to expand routes of travel in conjunction with the type of facilities that match the comfort level of the most potential users. Inventory of the study area included both the mapping of high level elements and a physical site reconnaissance of existing roadway conditions to evaluate potential conflicts with high speed traffic. A general analysis of the different types of cyclist and pedestrians who use multi-use facilities establishes the following categories:

- **Strong & Fearless** (1% of potential users)
- **Enthused & Confident** (7% of potential users)
- **Interested but Concerned** (60% of potential users)
- **Non Rider (Pedestrian)** (32% of potential users)

In order to capture most of the users (about 92%) who fall in the “Interested but Concerned” and “Non Bicycle Rider” categories, routes have been prioritized that have opportunities for separated and protected bike lanes and multi-use paths that can accommodate both pedestrians and cyclists.

The greatest tourism potential and economic benefit comes from facilities that can capture the highest number of potential users. Pedestrian walkways, shared-use paths as well as dedicated and protected bike lanes in low speed settings are the type of facilities that capture the greatest number of potential tourist.

Dedicated bike lanes and bike routes on moderate speed roads also hold potential to capture a smaller number of bike tourists, and should be considered as part of the plan to develop facilities.

Some of the proposed long distance connection routes may be more appropriate for the “Strong and Fearless” and “Enthused and Confident” bicycle riders. These travel routes have been established along county roads that could initially fit expanded shoulders and/or dedicated bike lanes with the long term potential for the addition of multi-use paths if the demand and economic return can warrant the associated infrastructure costs.
Establishing Multi-use Routes
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Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

What Type of User Are You?

**Strong & Fearless:**
(1% of potential users)
I will ride on almost any road, regardless of the conditions. I would feel comfortable biking on the roads pictured below.

**Enthused & Confident:**
(7% of potential users)
I feel comfortable sharing the road with cars, but I prefer to ride on roads with bike facilities. I would feel comfortable biking on the roads below.

**Interested but Concerned:**
(60% of potential users)
I would like to ride a bike for transportation, but traffic makes me nervous so I don't ride regularly. I would ride more if the roads felt safer. I would feel comfortable biking on the roads pictured below.

**Non-Rider (Pedestrians):**
(32% of potential users)
I have no interest in biking for transportation, or may not be physically able to ride a bicycle. I would be more open to riding or walking completely separate from other forms of traffic. I would feel comfortable biking or walking on the paths pictured below.
Proposed Multi-Use Routes Overview:

Since all of the municipalities within the study area already have at least some limited network of pedestrian facilities (sidewalks) and a few even have a few multi-use trails, the primary challenge is one of connectivity. These existing sidewalk networks in Rossville and Fort Oglethorpe are already connected both to one another as well as to the vast network of Chattanooga sidewalks, such that it has long been possible for a pedestrian to walk from Lakeview-Fort Oglethorpe High School on Battlefield Parkway out in eastern Fort Oglethorpe through Rossville and East Lake or along Rossville Boulevard to downtown in Chattanooga or St. Elmo, the North Shore, East Lake, Highland Park, East Chattanooga and parts of the Bainerd. Eventually it will be possible to reach the East Brainerd and Hamilton Place communities and elsewhere, which is and will be an incredible accomplishment in connectivity. That said, however, none of the other municipalities within the study area are connected by pedestrian facilities to any of the others, much less to the larger community.

It is recommended that the existing sidewalk in each of the study area communities be repaired and regularly maintained, that wheelchair-accessible accommodations be provided where possible and that attempts be made to inter-connect the isolated segments of sidewalks that are scattered throughout study area communities as feasible in order to facilitate walking between individual neighborhoods and from residential neighborhoods to nearby local business areas.

This study area is rich in natural, aquatic, scenic, environmental, historic and cultural resources. The ridges, valleys and creeks of the study area which pose challenges to hiking and biking are among the features that give it the character that make it attractive as a place to live, work and play. Most in the study area are aware of the historic sites and resources from the era of the Cherokee Nation and early European settlement as well as the War Between the States; but among examples of the many natural, aquatic and environmental resources in the study area is the abundance of springs here. Among them are Rock Spring, Crawfish Spring (in Chickamauga), Cloud Spring (in Fort Oglethorpe), Wildcat Springs on Burning Bush Road, Poplar Spring (in Rossville) and Poplar Spring (on Poplar Springs Road) and Ellis Spring on Boynton Drive as well as the springs at Edgewater Beach in Graysville. At some point it may make sense to attempt an inter-connection of some of these resources with multi-use trails.

Similarly, despite study area municipalities having plans for future greenways and multi-use trails linking their residential areas with their commercial and recreational activity centers, none currently have plans to connect with one another or the resources in the greater Chattanooga area. Envisioning a “big picture” of multi-use trail networks which interconnect the study area municipalities with one another may seem to be an insurmountable “grand vision”. But the vision may actually need to be even bigger.

Proposed Multi-Use Routes:

A 53-mile-long ChickChatt Multi-Use Trail Loop has been proposed which could eventually link and encircle much of the greater Chattanooga area via the now almost-completed Tennessee Riverwalk from Chickamauga Dam to St. Elmo, the St. Elmo Greenway from the Riverwalk to the proposed TAG Railroad Trail to the proposed Durham Rail Trail to Chickamauga and a proposed Shields Crossroads connection to Lee & Gordon’s Mill, the southern terminus of the proposed West Chickamauga Creek Blueway and Greenway and north to Camp Jordan Park in East Ridge and then, via the also almost-completed South Chickamauga Creek Greenway back to the Tennessee Riverwalk.

Lookout Mountain, GA could connect via Lookout Mountain, TN and the Guild Trail down to St. Elmo in Chattanooga, down the TAG Railroad Trail to Chenchat, back up the Durham Rail Trail to the Lula Lake Land Trust and then back into Lookout Mountain GA. Fort Oglethorpe and Chickamauga could create their own 15-mile-long multi-use trail loop that would encircle the Chickamauga Battlefield and Ringgold could create a 20-mile-long multi-use trail loop that connects it along Poplar Springs Road to Peavine Valley and Graysville and back around to Ringgold via an existing utility easement. There are abundant opportunities within every community.

This even “bigger picture” vision of a two-state, greater Chattanooga area multi-use trail network, in which the study area constitutes the southern half of a 55-mile-long loop, as well as various community connections even beyond it, may seem to some to be “a bridge too far” at this point. When Chattanooga leaders envisioned the Tennessee Riverwalk 40 years ago, it may have similarly seemed to some at that time to have been an impossible dream, but now almost all of it is a reality. With that demonstration as a context, the communities in Dade County, Walker County and Catoosa County that lie within this study area will be challenged to think of a bigger vision than they may have previously imagined, even if it will take decades to achieve. To move forward with individual projects identified below, affected communities will need to become convinced that this will truly be economically feasible and, if so, to embrace a larger, regional vision of “Ped-Paddle-Pedal-Prosper”.

Although GA “March to the Sea” Bike Route 35, GA Bike Route 21 and GA Bike Route 321 are currently mapped through the study area and GA Bike Route 21 and GA Bike Route 321 are also signed for on-street/on-road bicycle travel, the parallel multi-use trails proposed in this study often deviate from those routes, suggesting that certain of the currently mapped and signed Routes could eventually be altered to follow some of these proposed multi-use trail alignments as segments of them are developed.
Establishing Multi-use Routes

Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

Proposed Multi-Use Routes Map

Legend
- Proposed Facilities
  - Multi-Use Loop
  - Multi-Use Path
  - Natural Surface Trail
- Existing Bike Routes
- Existing Shared-Use Paths
- Existing Sidewalks
- Existing Trails
- Utility Corridors

Data Sources:
USGS, US Census Bureau, U.S. Fish & Wildlife Service, Georgia Department of Transportation, US Forest Service, Chattanooga Area Rivercenter Society, CHCNGA-TPO

Establishing Multi-use Routes
Wildwood & Lookout Mountain:

Since traffic on the short segment of Old Birmingham Highway east of the NSRR main line is so light and lower speeds appear appropriate there, this route appears to be suitable to accommodate bikes and pedestrians on-street with minimal improvements, including striping and signage. A striped, signed and signalized US 11 crosswalk is proposed from the Wildwood Post Office and nearby commercial zone to the existing Old Birmingham Highway grade separation under the NSRR tracks to provide a safe and convenient connection. Due to its light traffic volume and low speeds, this segment offers an excellent opportunity to provide an on-street bicycle and pedestrian route along Old Birmingham Highway with a series of over-land multi-use trail connecting alignment east of the NSRR right-of-way from the north end of Old Birmingham Highway north to the TN-GA state line in which two additional short parallel or on-street Belk Road and Guinn Road segments would also be needed to connect Wildwood into the future Chattanooga companion multi-use trail proposed to following the Wauhatchie Pike corridor into Tiftonia. Another potential scenic multi-use greenway trail loop is also proposed from the Wildwood Post Office business district northwest paralleling Wawona Drive (CR 109) and then overland to the business strip along SR 239 at I-24 Exit 169, which could then possibly re-connect with the Belk Road multi-use trail segment if an adequate, safe and convenient way can be provided to cross both US 11 and the NSRR main line tracks there.

Lookout Mountain already features numerous natural-surface trail networks clustered around the public natural areas they support and plans are underway to continue further extending this network. An existing concrete sidewalk also connects Lookout Mountain, GA with Lookout Mountain, TN at the TN-GA state line. Several multi-use routes have been proposed from Lookout Mountain, TN to other sites on and off the mountain, including the Guild Trail which leads down into the Chattanooga community of St. Elmo, where its Greenway will soon be connected via the Tennessee Riverwalk to Chickamauga Dam as well as to Camp Jordan Park, via the South Chickamauga Creek Greenway. Opportunities also abound for Lookout Mountain, GA to link with both these proposed future TN multi-use trails as well as its own multi-use greenway trail to Covenant College and on to the network of Lula Lake Land Trust (LLLT) trails. The City is investigating alignments from the proposed Town Center to other businesses and activity centers.

It is recommended that the City of Lookout Mountain, GA coordinate with Lookout Mountain, TN, Walker County, Covenant College, the LLLT and Cloudland Canyon State Park, etc., to create a more comprehensive and integrated master plan of proposed mountain-top facilities and connections to points of interest in Chattanooga and Chattanooga Valley as well as Lookout Valley and Trenton and then, by prioritizing the optimal individual segments, to develop an implementation strategy for that master plan.
Establishing Multi-use Routes
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Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

Chattanooga Valley & Fairview

Chickamauga - C&CNMP Connector Route
Durham Rail Bed Multi-Use Route
Catoosa County
Walker County
Dade County
Chattanooga Valley Road
Long Branch
Coke Oven Branch
Powder Mill Branch
Laurelwood Circle
Mountain View Circle
Chickamauga Road
Dyer Road
Hidden Oaks Drive
Mill Creek Road
Harp Switch Road

Establishing Multi-use Routes
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Northwest Georgia
Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

Chattanooga Valley & Fairview:

There are four main multi-use routes proposed for the Chattanooga Valley area, those being the north-south TAG Railroad Multi-Use Trail and the east-west Durham Rail Bed Multi-Use Trail (portions of which are also part of the proposed ChickChatt Multi-Use Route mentioned above) as well as the Happy Valley Multi-Use Trail from Flintstone to Rossville Middle School, paralleling Happy Valley Road, and on to Fairview, paralleling Turner Ridge Road and Cora Ann Drive to Mission Ridge Road and then on north by paralleling Mission Ridge Road to its signalized intersection with McFarland Gap Road. Another leg of the proposed multi-use trail will extend southeast toward Chickamauga from the intersection of Lytle Road with Mission Ridge Road. If would follow a route south of, parallel / adjacent to Lytle Road and the Central of GA rail line that parallels it mostly on the north. From the Wilder Tower area, the multi-use trail could then follow the railroad right-of-way. The western reaches of the Durham Rail Bed Multi-Use Trail could enable connections to the LLLT as well as Cloudland Canyon State Park and other resources up on top of Lookout Mountain also outside of the study area.

The two historic rail beds offer one major advantage over other routes, in that since they were originally designed with manageable railway slopes, they could be excellent routes for multi-use bike and pedestrian trails. A significant feature of the Chattanooga Valley portions of the proposed TAG Railroad and the Durham Rail segments is that they are also components of the larger 55-mile-long ChickChatt Multi-Use Trail loop, mentioned above.

In addition to the proposed Chattanooga Valley multi-use trails, another proposed multi-use trail would follow the McFarland Gap Road corridor through Fairview with a series of parallel alignments there. Beginning as a striped, signed and signalized crosswalk at the intersection of Mission Ridge Road with McFarland Gap Road, it could run parallel to and alongside McFarland Gap Road (with another signalized cross-walk at the already-signalized North Jenkins Road intersection) and would connect Mission Ridge Road with Dewberry Road and then parallel Dewberry Road north to cross under the US 27 by-pass of Chickamauga Battlefield parallel to Little Street at the grade separation there.

When complete, multi-use trail connections are proposed which will connect Fairview with its four adjacent communities. The proposed multi-use trail paralleling a Mission Ridge Road-Cora Ann Drive-Turner Ridge Road-Happy Valley Road alignment would connect Fairview with Flintstone in Chattanooga Valley. The Dewberry Road-Little Street parallel alignment could connect it to the City of Fort Oglethorpe. A proposed Happy Valley Road parallel alignment north from Rossville Middle School would connect it to Ridgegeland High School, Stone Creek Elementary School and the City of Rossville and a proposed Lytle Road multi-use trail would connect Fairview with Wilder Tower and the City of Chickamauga.

If implemented in this way, Chattanooga Valley and Fairview would be connected to one another and other nearby study area communities by bike and pedestrian facilities that would also interconnect them to the Tennessee Riverwalk in Chattanooga via both the St. Elmo Greenway and from Rossville via connections along Rossville Boulevard to downtown Chattanooga.
Establishing Multi-use Routes

Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

Chickamauga

Establishing Multi-use Routes
Establishing Multi-use Routes

Chickamauga:

The City of Chickamauga already has several multi-use routes proposed to connect its downtown with the Coke Oven Park and other historical and recreational activity centers within the City. In addition to these, it also has opportunities to connect with additional resources and communities nearby outside its corporate limits. As a key component of the proposed 55-mile-long ChickChatt Loop mentioned above, the proposed Durham Rail Bed Multi-Use Trail, would connect Chickamauga west to Chattanooga Valley and Lookout Mountain as well as to Chattanooga via the proposed TAG Rail Multi-Use Trail and St. Elmo Greenway. Continuing east through Chickamauga, a revised alignment of the proposed ChickChatt Loop would parallel Crittenden Avenue to Lee Gordon Mill Road, paralleling it to Lee & Gordon’s Mill as well as passing the Shields Crossroads commercial business district. From Lee & Gordon’s Mill, the ChickChatt Loop would follow the proposed West Chickamauga Creek Greenway, paralleling the West Chickamauga Creek Blueway north from the Mill to Camp Jordan Park in East Ridge. Another multi-use trail could also proceed east along Red Belt Road toward Napier Gap as a connection to Peavine Valley and the City of Ringgold.

Another proposed multi-use trail would lead north from the intersection of Lee Gordon Mill Road and Crittenden Avenue in Chickamauga and paralleling either Wilder Road or Osburn Road north to the US 27 By-pass, where it would connect to the Lytle Road Multi-Use Trail from Rossville and Fairview and also provide a connection to Chickamauga Battlefield at Wilder Tower.

By use of the two routes that flank the Chickamauga Battlefield, Chickamauga could cooperate with Fort Oglethorpe to create their own 15-mile-long loop around the Park.
Establishing Multi-use Routes
Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes

**Rossville & Lakeview:**

In addition to upgrading, enhancing and expanding its existing network of concrete sidewalks and pedestrian facilities to and throughout more parts of the City of Rossville, multi-use routes are proposed in Rossville that will connect it with facilities in Chattanooga as well as other parts of the study area. Among these are the Rossville - Fort Oglethorpe Multi-use Route which would connect the two cities along what remains of a former trolley bed and another proposed multi-use trail, which would branch off of it in order to parallel Lakeview Drive and connect to Lake Winnepesaukah via the community of Lakeview.

The proposed Rossville Multi-Use Trail south would connect activity centers such as the John Ross House and Duck Pond with the Rossville Recreation Park and Stone Creek Elementary School, as well as Ridgeland High School, Rossville Middle and Flintstone via the proposed Happy Valley Multi-Use Trail. In this way, Rossville would resume its once-crucial role as both a destination as well as a central hub with the spokes that reach out to surrounding communities.

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### Proposed Multi-Use Routes

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Chickamauga & Chattanooga National Military Park

Catoosa County

Establishing Multi-use Routes

Chickamauga & Chattanooga National Military Park

66

Establishing Multi-use Routes
Chickamauga & Chattanooga National Military Park:

There are several proposed multi-use routes that would lead users to/from the Chickamauga & Chattanooga National Military Park, however, none in this study are proposed to pass through the park in order to acknowledge the intention that this Park be considered as a more passive environment for study, reflection and to honor soldiers fallen in the battle, not as a thru-way or for more active recreation per se. Understanding that, routes shown are only proposed to go around the park or to the gates of the park. As an example, the West Chickamauga Creek Multi-use Trail, a part of the larger ChickChatt Multi-Use Trail Loop, is proposed to run outside the east perimeter of the Park and as it inter-connects Fort Oglethorpe with Chickamauga. Similarly, both the existing Barnhardt Circle Trail and the proposed Hedekin Circle Contra-Flow Bikeway provide for future connections to the Park Visitor Center but, as proposed, do not encroach upon the Park as a thru-way. Similarly, the Fort Oglethorpe connection to Fairview also avoids encroaching upon Park property as it passes north and west of it. In this way, a series of multi-use trails could literally encircle Chickamauga Park without adversely impacting it.
Fort Oglethorpe, Indian Springs, & Graysville:

The existing Black Branch Greenway and Harker Road Multi-Use Trail already connect City Hall with Gilbert Stephenson Park and other City recreation facilities including the Frank N. Gleason Park as well as Barnhardt Circle and the Historic District. Plans are underway for a Battlefield Parkway Multi-Use Trail which will connect Lakeview Fort Oglethorpe High School with the short existing segment of West Chickamauga Creek Greenway, which includes a canoe launch connection to the West Chickamauga Creek Blueway. Proposed for the City of Fort Oglethorpe are numerous multi-use routes throughout this portion of the study area connecting to places both within the City and to places in every direction. The proposed West Chickamauga Creek Greenway (a part of the proposed ChickChatt Loop) would lead to places north in East Ridge and Chattanooga. The West Chickamauga Creek Greenway would connect south along the eastern perimeter of Chickamauga Park to Lee & Gordons Mill and the City of Chickamauga as well as east to the Peavine Creek Greenway and Multi-Use Route. Fort Oglethorpe and Ringgold would be connected by the multi-use route along Poplar Springs Road from Reeds Bridge Road and Boynton Drive from West Chickamauga Creek to Boynton. Furthermore, the Georgia portion of the ChickChatt Multi-Use Loop incorporates the West Chickamauga Creek Multi-Use Trail as a crucial segment of it. Among other enhancements are proposed multi-use trails along Mack Smith Road and Mineral Avenue which will inter-connect the Battlefield Parkway business district with the Ringgold Road business district in East Ridge. It is suggested that as this north-south corridor is widened and enhanced, that a parallel multi-use trail be incorporated to connect with similar improvements proposed by East Ridge to connect its primary east-west corridor with Camp Jordan Park.

A Park City Multi-Use Trail would extend northwest from the Cornerstone Medical Center campus along Park City Road to an overland route paralleling the US 27 By-pass of Chickamauga Battlefield to Little Street and under the By-pass to Dwewberry Road where a multi-use trail paralleling McFarland Gap Road would lead west through Fairview to points further west. Likewise, segments of Old LaFayette Road and available segments of the abandoned trolley bed provide opportunities to connect the Old Post street grid near Barnhardt Circle with nearby Rossville (and on to Chattanooga) with the proposed Rossville-Fort Oglethorpe Multi-Use Route. A proposed Park City Multi-Use Trail would also be used to connect Fort Oglethorpe with Fairview, Happy Valley, Chattanooga Valley and Flintstone on the west and Chickamauga on the south.

In conjunction with the City of Chickamauga, Catoosa County and Walker County, the City of Fort Oglethorpe could help create a 15-mile-long multi-use trail loop from the Battlefield Parkway trail to West Chickamauga Creek and south on the West Chickamauga Creek Greenway to the Lee & Gordons Mill and Chickamauga, then north paralleling Crittenden Avenue, Wilder Road and Lytle Road to a Mission Ridge Road parallel route and east paralleling McFarland Gap Road through Fairview to parallel Dwewberry Road and Little Street under the US 27 By-pass, overland to Park City Road and then paralleling it back to the Cornerstone Medical Center campus and into the Fort Oglethorpe Historic District. From there the existing Harker Road Multi-Use Trail and Black Branch Greenway extend east and back to Battlefield Parkway.
Ringgold:  
Ringgold has several existing multi-use trails, particularly along South Chickamauga Creek with plans to extend this into a loop trail around the city that connects to Canoe launch points for the proposed South Chickamauga Creek Blueway. As proposed, this loop will connect to Ringgold High School and its recreation facilities. Ringgold also plans to connect its downtown business district to the Poplar Springs Fields in the Rollins Industrial Park with a proposed multi-use trail along Little Chickamauga Creek.

Rather than attempting to parallel Boynton Drive to Boynton as once thought, since the proposed Little Chickamauga Creek multi-use trail will have already crossed under I-75, it is proposed to extend this multi-use trail on west and parallel to Rollins Industrial Court and Rollins Industrial Boulevard to Holcomb Road and paralleling it past Ringgold Elementary School to Poplar Springs Road, paralleling it on further west to Three Notch Road and along it and the next segment of Poplar Springs Road to the campuses of Heritage High School and Heritage Middle School, where it could inter-connect with the proposed north-south Peavine Creek Greenway, which would connect the campuses of Heritage High School / Heritage Middle School with the Boynton community, Boynton Community Building, Boynton Elementary School and Boynton Recreation fields as well as the Benton Place Campus and Jack Mattox Recreation Park. It is proposed to extend further north to both Graysville and Camp Jordan Park.

Another internal multi-use trail is also proposed south along SR 151 (Old Alabama Road) from its intersection with Robin Road to the commercial hotel / motel / restaurant district on the north / east side of I-75 GA Exit 348. Another companion multi-use trail could also extend north from Holcomb Road along SR 151 (Old Alabama Road) to the commercial retail district on the south / west side of I-75 GA Exit 348.

In addition to reaching south and west, it is proposed to extend the downtown Ringgold network of multi-use trails north on an existing sanitary sewer force main which runs parallel to and west of the main line CSX railroad right-of-way all the way to Graysville, where it would then interconnect with the Peavine Creek Greenway on its way to Camp Jordan Park. A branch of this proposed multi-use trail is also proposed to parallel Saunders Road in order to connect with Elsie A. Holmes Nature Park and the natural surface trails and other resources available there.

Ringgold and Catoosa County could use this Ringgold-Graysville multi-use trail and the Peavine Creek Greenway to connect the proposed Poplar Springs Road-Holcomb Road-Rollins Industrial Park-Little Chickamauga Creek Greenway to create a 20-mile-long multi-use trail loop around Ringgold.

Although areas northeast, east, southeast and south of Ringgold lie within the subject study area, for purposes of these investigations, it was determined that at this time no specific pedestrian or bicycle facilities be proposed northeast of Ringgold Gap into Cherokee Valley, Salem Valley or Keith, etc., east of Ringgold toward the Old Stone Church or Tunnel Hill, etc., southeast toward Dogwood Valley or Houston Valley or further south of Ringgold toward Wood Station.

<table>
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<tr>
<th>Trails</th>
<th>Mileage</th>
<th>Strong &amp; Fearless</th>
<th>Enthusiast &amp; Connoisseur</th>
<th>Non-Rider Connects to Nature</th>
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Economic Development Strategy

This section provides an inventory and analysis of the existing tourism base within the study area extending across Dade, Walker, and Catoosa counties. This analysis provides a baseline for assessing opportunities to enhance tourism activities and maximize spin-off impacts in the local economy. The following discussion identifies some of the larger, relevant visitor attractions, tourism hubs, and “drivers” in the region. Where possible, information on the bicycle and pedestrian trail components are discussed.
Overview of Chattanooga-Area Tourism:

Chattanooga has long driven the tourism market in this region. As early as the 1930s, family-owned attractions have advertised along the region’s highways (“See Rock City”) and encouraged those traveling from the Midwest to the Southeast to stop and enjoy the area’s “scenic wonders” and historic sites. The study area forms a part of the Chattanooga Metropolitan Statistical Area (MSA) and is therefore part of the resident and business base for Chattanooga. The Chattanooga Area Convention and Visitors Bureau (CVB) estimates that there are about 3,000,000 visitors per year to Chattanooga, of which 70% (2.1 million) originate from outside of the MSA. The city generated over 2.2 million room-nights last year, an indication of the strength of the overnight market. Room-nights sold have been increasing by about 1.0% per year since 2010.

Chattanooga offers a wealth of visitor attractions, including not only Lookout Mountain (Incline Railway, Ruby Falls, Rock City), but also the Tennessee Aquarium, which itself attracts over 700,000 visitors per year. The Chattanooga Choo-Choo Hotel, Chattanooga Zoo, International Towing Museum, Creative Discovery Museum, Southern Belle Riverboat, Hunter Museum of American Art, and various other attractions also help bring visitors to the area. Chattanooga’s Riverwalk helps tie many of these attractions together in a walk-able environment. Several of the region’s most visited attractions are located in the northwest Georgia study area, including Chickamauga & Chattanooga National Military Park and Lake Winnepesaukah. Also located in the Chattanooga region are sites and attractions like Raccoon Mountain Cave, Tennessee Valley Railroad Museum, and the Chattanooga Arboretum & Nature Center. Growing convention business also generates visitors to the region.

A majority of the region’s destination visitors originate in the tri-state area of Tennessee, Georgia and Alabama, and it is within these three states that Chattanooga’s CVB concentrates its marketing resources. In particular, the VBC targets Nashville, Atlanta, Knoxville, Birmingham, and Huntsville. The Chattanooga area is very successful at attracting family visitors, since there are so many family-oriented attractions on offer. The area is also successful in attracting those interested in outdoor activities, although participation by these visitors has been difficult to measure. The region is particularly appealing to those engaged in rock climbing, kayaking, mountain biking, trail running and other adventure sports. Certainly the concentration of mountains and other exciting topographical features, waterways, and natural settings contribute to the area’s appeal to outdoor adventurers.

Georgia Visitors Center:

The Georgia Visitors Center located in Interstate 75 provides an important gateway for long-distance travelers passing northwest Georgia. Many of these visitors are not necessarily targeted or captured by the Chattanooga CVB, which is more focused on destination visitors. The visitor center is more likely to capture and inform “snow-birds” or “sun-birds” (seasonal visitors traveling between the cold northern states or Canada and sunny Florida) who are not necessarily planning a stop in north Georgia or Chattanooga. Based on data supplied by the Visitors Center, it is estimated that about 1.7 million visitors stop at the center each year, on average. The ultimate destinations for many I-75 visitors are in Atlanta or Florida.

The center indicates that many of their visitors do stop en route at Chickamauga & Chattanooga National Military Park (C&CNMP) or at the Georgia Winery (located near Ringgold, adjacent the interstate). Many are looking for places to eat, or purchase gas. An estimated 30 to 35% of their visitors are looking for outdoor recreation or adventure destinations such as hiking, walking, biking, or kayaking trails. About 25% of visitors are looking for a place to take a walk, and the center currently directs them to C&CNMP or to trails one hour south of the center at Cartersville or in the Pine Mountain Recreation Area. These trails are well-marked and maintained, located near the interstate, and have lighted parking lots.

However, less than 2-4% might be considered “hard-core” recreation enthusiasts (and about 10% of these are specifically looking for biking or hiking trails). Most of those enthusiasts tend to be young males headed to a specific trail or other recreation destination in the state. Hiking destinations include Cloudland State Park or Fort Mountain. Biking destinations include Woodstock (Cherokee County) and the Silver Comet Trail. Kayaking destinations include landings along Chickamauga Creek. A handful of center visitors are participating in specific events, such as the Iron Man contest recently hosted by Chattanooga. To sum, visitors looking for some low-impact recreation outlet are an important component of the center’s clientele, but hard-core recreation enthusiasts comprise a very small share of visitors.
Chickamauga & Chattanooga National Military Park:
The Chickamauga & Chattanooga National Military Park (C&CNMP), located adjacent to Ft. Oglethorpe, is the driver for military heritage and Civil War tourism in the region. The park is the oldest and largest military park in the United States and comprises of several separate elements including Chickamauga Battlefield and Lookout Mountain.

Attendance Trends:
The park experienced rapid growth in attendance during the 1950s, but has remained relatively stable at around 1.0 million since about 1990. Between 2010 and 2015, attendance has averaged 994,416, which is fairly typical of trends since 1990. Surprisingly, attendance did not spike upwards during the recent commemorations for the sesquicentennial of the Civil War.

The four primary C&CNMP sites located within the study area include the Chickamauga Battlefield and Visitors Center, the Wilder Brigade Monument, and the park’s recreation fields. The park’s other sites are situated primarily within Tennessee. While the C&CNMP Lookout Mountain Visitors Center is located in Tennessee, it nevertheless provides an indication of heritage visitor volumes that might source trails through Lookout Mountain, Georgia.

Attendance at each of the C&CNMP sites has been estimated based on surveys conducted by the National Park Service (NPS). Based on those surveys, it is estimated that about 636,000 people visit the Chickamauga Visitors Center and about 250,000 visit the Chickamauga Battlefield. Around 520,000 visit the Wilder Brigade Monument, and the park's recreation fields. The park's other sites are situated primarily within Tennessee. While the C&CNMP Lookout Mountain Visitors Center is located in Tennessee, it nevertheless provides an indication of heritage visitor volumes that might source trails through Lookout Mountain, Georgia.

Participation in Bicycling and Other Activities:
National Park Service surveys have also provided some indication of participation in various activities within the park. Several of these activities are pertinent to this study. For example about 53% of park visitors participated in hiking, walking or jogging in the park. That percentage translates into about 528,000 people overall, or 337,000 within the Chickamauga sites in the study area. The survey also indicated that about 5% of visitors participated in bicycling activities in the park. This share translates into about 50,000 bikers overall, and 32,000 within the study area.

National Park Service rangers have led a Chickamauga Battlefield Bicycle Ride, one Saturday each month, which starts at the Visitors Center. It should be noted that the Park Service does not offer biking trails, per se, nor does it encourage bicycling through the park for recreation or transportation purposes. The park is intended as a memorial, an educational experience, and a way to honor to those who lost their lives in battle. That being said, biking tours as a way to learn about Civil War heritage can be encouraged. Aside from the monthly NPS-sponsored rides, the park also accommodates the annual Chickamauga Battlefield Marathon, which attracts runners from a broad geographic region. The marathon is limited to 1,500 participants.

Interviews conducted with staff at the park provided more detailed insight into overall biking participants. Those staff members suggest that only a handful of these biking participants are bicycling enthusiasts (as indicated by the numbers who have brought their own bikes to the park to use the trails as a destination activity). Based on the interviews, it is estimated that one group of bicyclists per day, on average, are enthusiasts. Given that the average group size is 3.24, it is estimated that about 2.3-4.0% of the park’s bicyclists (about 1,200 to 2,000 per day) are enthusiasts or “hard-core” bikers. The majority of bicycling visitors come from Chattanooga and surrounding areas on weekends or before/after work for recreational purposes including walking and biking.

In addition to these biking and pedestrian users, the park also attracts other types of users that are relevant to this study. About 2% of visitors (nearly 20,000 people) participate in rock climbing activities. Rock climbing is a popular activity for residents and visitors to Chattanooga and surrounding areas because of the topography which provides a preponderance of climbing opportunities as well as spectacular views. Among the comments generated by the surveys were a number relating to the need for more designated rock climbing routes in the area. Another 1% of visitors (10,000) participate in horseback riding in the park. Finally, 1% (10,000) of visitors also participates in kayaking and other “blueway” activities in the park.
Chickamauga & Chattanooga National Military Park:

**Origin of Visitors:**

Slightly over one-third of visitors live within 50 miles of the park. Another 12% live within 100 miles. The plurality of visitors (43%) is from Tennessee or Georgia, with a significant share from the Chattanooga metro area. More than 10% of visitors live in Hamilton County (Chattanooga). Another 4% live in Walker County (GA), 2% in Catoosa (GA), and 2% in Bradley (TN). An estimated 22% of visitors live in Metro Chattanooga.

About 54% or 537,000 visitors (344,000 study-area visitors) live outside of a 100-mile radius of the park and are more likely to require an overnight stay. These overnight visitors are key to understanding the existing and potential impacts of tourism on the local economies. Visitors primarily take I-75, I-24, and US 27 to reach the park, although some also use Georgia Route 2, Route 148, and Ochs Highway. About 64% of visitors also see other attractions, including the Chattanooga Riverwalk (52% of those), Rock City (48%), Ruby Falls (44%), and Tennessee Aquarium (38%).

Key existing overnight markets for the park include Nashville, Atlanta, and visitors to the Great Smoky Mountains and Central Florida (e.g., “Snowbirds”), based on the counties recorded through survey data. Among the top non-local counties are Gwinnett (Atlanta MSA), Rutherford (Nashville MSA), Seminole (Orlando MSA), Floyd (Atlanta MSA), and Williamson (Nashville MSA). Each of these counties accounts for at least 1% of total park visitors.

Military / Civil War Heritage Tourists:

About 13% of the 64% who visit other sites visit Kennesaw Mountain National Military Park. This number thus provides some indication of the share of total visitors (8-10%) who are military heritage enthusiasts. About 14% of park visitors spend at least two days at the park. Those spending two or more days tend to be the military and Civil War heritage tourists. Based on this information and on interviews with park staff, it is estimated that core heritage visitors represent about 8 to 10% of total attendance at the park, or 89,500 visitors (57,300 within the study area). As is typical of heritage sites, the demographics point to a more affluent, well-educated, and older visitor (nearly 50% are over the age of 50).

Fort Oglethorpe:

Fort Oglethorpe is an important hub for Civil War and military heritage. Once an active United States Calvary post and military base, historic components of the original Fort Oglethorpe remain as testament to the base’s legacy as the home of the 6th Calvary, an induction center in WWI that housed German POWs and served as a major training post for the Women’s Army Corps (WACs) during WWII.

The post’s history is also captured through several interpretive sites and a National Register Historic District. Fort Oglethorpe is also an important gateway to the adjacent Chickamauga & Chattanooga National Military Park (C&CNMP), located just south of the city.

Fort Oglethorpe Historic District (Barnhardt Circle & Parade Ground):

The original parade ground and many of the original officers’ homes still stand on Barnhardt Circle, part of the original post. This area has been designated on the National Register of Historic Places. While some of the houses have been demolished over time and replaced by non-contributing buildings that distract from the historic character of the post, there is a sufficient number of remaining buildings around the Parade Ground to evoke Fort Oglethorpe’s historic past. Just off of Barnhardt Circle are other buildings that were once utilized for post activities. For example, Tootsie’s Treasures consignment shop (2978 Lafayette Road) occupies the old Post Gym (ca 1904). Several old warehouses located between the Parade Ground and Lafayette Road once housed stables supporting the post’s mission.
**Fort Oglethorpe:**

**6th Cavalry Regiment Museum:**

The 6th Cavalry Regiment Museum (at Fort Oglethorpe) houses artifacts, including weapons, photos, uniforms, vehicles and other collections commemorating the “Fighting Sixth” Cavalry that was stationed at the post from 1919 to 1942.

**Battle View B&B and Overnight Visitor Base:**

Based on information collected from the various attractions and from the Battle View B&B (located on Barnard Circle), an overall profile of the Fort Oglethorpe overnight visitor emerges. A relatively high proportion of overnight visitors to the Fort Oglethorpe Historic District tend to be heritage tourists, accounting for an estimated 50% of all visitors. However, only about 30-40% of those heritage tourists (or about 15-20% overall) are classified as military heritage enthusiasts (or “Battlefield Buffs”). About 60-70% (30-35% overall) are passing through (on I-75) but are interested in visiting heritage sites along the way. The heritage travelers generally stay in the area about two days, one of which they spend at the Chickamauga National Battlefield and the other in Chattanooga.

Another 20% overall are “Snowbirds” from Chicago, Michigan and Canada passing through but with little interest in military heritage. Another 20% are visiting for a specific event (anniversary, honeymoon, etc) as a getaway from Nashville, Atlanta, and other locations in the surrounding region.

About 10% of the visitors are adventure tourists interested in hiking, biking and other outdoor recreational activities. Most of these originate in the Southeast region (TN, GA, TX, etc). About half of these visitors (4-5%) are coming from Chickamauga and surrounding areas to hike or for other outdoor activities such as kayaking on the Ocoee River in Tennessee. These visitors generally stay about 2 days in the region.

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**Chickamauga:**

**Military Heritage:**

Chickamauga offers the Veterans of All Wars Museum and Crayfish Springs Park, which appeal to the region’s military heritage tourist. The city’s avenues also tell a story of the region’s battles, with names of famous generals - Longstreet, Hood, Crittenden, Stewart, etc. Holland-Watson Veterans Memorial Park is also an important heritage site for veterans and military buffs.

**American Indian Heritage:**

Chickamauga also offers an understanding of American Indian Heritage and the Trail of Tears. Most prominent of these sites is the Cherokee Courthouse. Crayfish Spring is named after Cherokee Chief Caryfish.

**Rail & Industrial Heritage:**

Lee & Gordon’s Mills, the Gordon Lee Mansion, and the Walker County Regional Heritage & Model Train Museum and the Durham Iron and Coal Company (Chickamauga Coke Ovens) and Coke Oven Park provides an important focus for the region’s industrial heritage. Gordon Lee Mansion is open on weekends in the summer. Lee & Gordon Mills accommodates weddings and special events that bring people to Chickamauga.

The museum generates an estimated 4,380 visitors per year, although about 40-45% of visitors are residents of Walker County and another 33% are from elsewhere in the Chattanooga area. Still, about one-third of visitors arrive from other parts of Georgia, Tennessee, Florida, Alabama, and the eastern U.S. Most of the museum’s visitors attend in spring and fall.

The Tennessee Valley Railroad Museum also operates excursion trains to Chickamauga (“The Chickamauga Turn”), providing a direct tourism link from Chattanooga. Based on a sample of data provided by the Museum, the train generates a total of about 1,920 to 2,240 passengers per year on 16-17 trips from Chattanooga to Chickamauga and the Wilder Tower Monument at C&CNP. Previously, 35 trips per year included Chickamauga, but the new schedule has cut Chickamauga stops in half, favoring more time in Summerville. Part of the reason for the shift was that Chickamauga did not offer the dining options that rail passengers sought during their stopover.

About 20% of the train passengers live in the Chattanooga area, with another 20% from Nashville, 15% from Huntsville, 12% from Birmingham, and others from Atlanta, Knoxville, Winston-Salem, Greenville-Spartanburg, and surrounding areas generally within a 250-mile radius of Chattanooga. The train appeals primarily to tourists visiting Chattanooga and looking for an all-day excursion. Heritage tourists and military history enthusiasts only comprise a small share of the riders, even though the train now incorporates a Civil War re-enactor to describe the history of the area and a stop at C&CNP. The train does not currently accommodate or offer a bicycle excursion (such as a bike-ride-down / train-ride back trip), but management is open to the concept.
Rossville:
Rossville provides an important gateway from Chattanooga into the study area, but at present offers few visitor sites of significance that are marketed to tourists. The Chief John Ross House (200 E. Lake Avenue) is an American Indian heritage site, as home to one of the more infamous characters in the tense relationship between the United States Government and northwest Georgia’s American Indians. The small pond and chain-link fenced area around the site is not particularly conducive or attractive for tourism. Based on information supplied by the City, it is estimated that about 1,100 people visit the Ross House each year, although the numbers have been declining.

Rossville's Lake Winnepesaukah amusement park has offered rides and family entertainment to visitors since 1925. The venue more recently added a water park feature. The 280-acre family-owned park offers the traditional amusement park visitor experience and attracts hundreds of thousands of visitors primarily from a 250-mile radius within the tri-state area (TN-AL-GA) around Chattanooga.

Ringgold:
Ringgold provides perhaps the largest intact historic downtown area of any community in the study area, with a charming business district and interesting sites for the visitor. The Ringgold (Western & Atlantic Railroad) Depot is perhaps the most important of the city’s heritage sites, offering historic context relating directly to the Civil War. According to the City’s Main Street organization, the depot accommodates about 12,500 visitors each year for weddings, Halloween Haunted House, and other special events. Most guests are visiting from within +/-100 miles or so. Other heritage sites in Ringgold include the Old Stone Church, the “General” Monument, and the Atlanta Campaign Pavilion.

Regional Driving Routes:
There are several regional driving routes promoted by the State of Georgia and other entities. Perhaps the most heavily marketed of these is the Civil War Heritage Trail, which promotes Civil War battles and other sites in the region.

Georgia Civil War Heritage Trail (Atlanta Campaign):
The Georgia Civil War Heritage Trails are a set of driving routes throughout the state commemorating various campaigns and activities relating to the war. The Atlanta Campaign trail winds through northwest Georgia.

Within the study area, the Georgia Civil War Heritage Trail extends from Trenton south along routes 136 and 193 to Lafayette, then north along 136/341 to Chickamauga to C&CNMP, east along Route 2 to Ringgold and south along Tunnel Hill Road through Tunnel Hill and towards Dalton and beyond. Key sites located in or near the study area include John Gordon Hall, Crayfish Spring, Lee & Gordon Mills, McFarland Gap, Ringgold Depot, and Tunnel Hill.

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Other Driving Trails:
In addition to the State’s designated Atlanta Campaign driving route, there are also other driving “trails” marketed throughout the region and the state, including the “Blue & Gray Trail,” which incorporates battlefields and other Civil War sites in Chattanooga, Trenton, Fort Oglethorpe, Chickamauga, Ringgold, and many other locations between Atlanta and Chattanooga. The Georgia Antique Trail promotes antique retailers along various driving routes throughout the state and including several businesses in Ringgold (Antiques by the Fountain and Trestle Side Antiques). Agri-tourism is promoted throughout the state through a network of farms and agricultural sites. Northwest Georgia study area farms marketed as part of this tourism initiative include Sims Family Farm (Ringgold), Cove Christmas Tree Farm (Chickamauga), Georgia Winery (Ringgold), Kittle Christmas Tree Farm (Ringgold), and Wheeler’s Christmas Tree Farm (Tunnel Hill), among others.

U.S. Route 41, the old Dixie Highway, is another important driving route. A highway that once carried long-distance travelers from Michigan to Florida, U.S. 41 remains an interesting relic of America’s traveling past and some tourists prefer the route for its slower pace over traveling on I-75. U.S. 41 passes through Ringgold and other parts of Catoosa County, connecting Nashville to Atlanta.
Regional Bike Routes & Events:

The State also promotes several regional bicycle routes through northwest Georgia and the study area. These routes are discussed in detail elsewhere in the body of the full report, but generally include Route 139 (Rossville south to Polk County), Route 103 (Cloudland Connector Trail), Route 117 (Lookout Mountain south to Haralson County), Route 108 (Fort Oglethorpe east/south to Ringgold and Fairmount), and Route 112 (Chickamauga east to Blue Ridge, with a spur north to Rossville).

There are several cycling events held regularly in the area, including the 3-State 3-Mountain Challenge (sponsored by the Chattanooga Bicycle Club), which attracted 1,100 riders to its three routes in 2016. Only the longest route (100 miles) extends far into northwest Georgia. There are also walking/running events, such as the American Cancer Society Relay for Life (Catoosa/Walker Counties) and the Chickamauga Chase (Chickamauga).

Cloudland Canyon State Park:

The spectacular, 3,485-acre Cloudland Canton State Park is located along the western edge of the study area on Lookout Mountain, offering significant opportunities for outdoor recreation. C&CNMP is located at the nexus of this route between Trenton and Ringgold. A new bike-packing trail is slated to link Chattanooga’s Riverwalk to Cloudland Canyon and its myriad internal hiking and biking trails.

Cloudland Canyon attracts about 250,000 visitors per year. The park’s primary service areas include Chattanooga, Fort Oglethorpe, Fort Payne (AL), and the northern portions of Metropolitan Atlanta. Visitors are primarily attracted for the park’s “rugged” natural features and outdoor recreation opportunities, according to the park’s Business and Management Plan.

Summary:

The study area benefits from Chattanooga’s tri-state draw for three million destination tourists, associated with family-friendly venues, the Civil War and military heritage, and outdoor adventure recreation. The latter category is most likely to drive direct demand for trails in northwest Georgia, but it is inherently difficult to measure participation in such activities. Based on available information, destination recreation visitors may account for about 30-35% of all tourists in the study area, although more than 50% of all visitors may walk or bike on a trail or path as part of their visit. The largest share of recreation visitors in the study area, including bicyclists and walkers, originate in the Chattanooga MSA. Chattanooga-area residents often visit northwest Georgia for walks or biking activities on the weekends, or before and after work. “Hard-core” destination biking/hiking enthusiasts are estimated to account for about 2-4% of the recreation visitor base or about 1.0% of all study area visitors.

In addition to destination tourism, the region also benefits from exposure to “Snowbirds” and other visitors passing through en route to Nashville, Atlanta, Florida and other locations. Within the study area, Chickamauga & Chattanooga National Military Park (C&CNMP) is by far the largest tourism generator, yielding nearly one million visitors per year. Nearby Fort Oglethorpe is a shadow of its former glory as a military post, but offers opportunities to enhance tourism for this unique glimpse into history.

Other venues generate only a small fraction of the number at C&CNMP and are typically geared to very specific target markets, like military heritage tourists. Several of the area’s scenic towns like Lookout Mountain, Chickamauga, and Ringgold are attractions in themselves. Rugged sections of Cloudland Canyon as well as more tame agricultural flatlands offer scenic vistas and opportunities for both active and passive recreation including biking, hiking, and other trail use.
Overview:
The Study Area includes portions of Dade, Walker, and Catoosa counties in northwest Georgia. These counties form part of the Chattanooga Metropolitan Statistical Area (MSA) and are dependent on a large regional economy centered at Chattanooga. Many residents of the study area work in Chattanooga or surrounding suburbs. However, very few MSA residents commute to northwest Georgia for work. The Census estimates that 2,460 workers commute to Fort Oglethorpe (the largest employment hub within the study area), accounting for just 1.1% of all commutation in the MSA. More Chattanoogans commute to Nashville each day (1.5%) than they do to Ft. Oglethorpe.

Employment Trends:
The Chattanooga MSA has over 230,000 jobs, up by about 11,500 or 5.3% since 2010. Overall employment trends are summarized by sector, below.

Chattanooga has long benefited from a large and vibrant manufacturing base, which drove the regional economy until relatively recently, when health care (14.6% of MSA jobs) overtook manufacturing (13.4%) to become the area’s largest employer. Manufacturing, along with the retail trade and financial services sectors, lost the largest number of jobs since 2002. Still, the importance of manufacturing to the regional economy has been reinforced by recent developments such as the establishment of America’s first Volkswagen assembly plant in Chattanooga.

About 9.6% of Chattanooga MSA employment (22,200 jobs) is in the accommodation & foodservice sector, an important indicator of tourism activity. This number is up from 21,200 in 2010, an increase of 1,000 or 4.7%. Accommodation is the 4th–largest economic sector in the region, behind health care, manufacturing, and retail trade. Chattanooga has long been marketed as a tourist destination, thanks to its many natural amenities (mountains, vistas, rivers, caves), family-friendly attractions (Rock City, Aquarium, Winnepesaukah, etc), and Civil War heritage (battles of Chattanooga and Chickamauga).

Tourism, as indicated by employment in accommodation & foodservice, expanded the fastest of any sector in the study area between 2002 and 2014. Tourism-related employment expanded by 37.1%, or nearly 800 jobs. Thus, the sector was not only the fastest-growing but also experienced the largest absolute gain in jobs over the 12-year period. This gain has been consistent and is a positive indication of the area’s overall competitive strengths as a center for tourism activities, including recreation-related and other visitor activities. Overall employment trends from 2002 to 2010 and 2014 are summarized above.

According to the Census, there were 144 foodservice establishments with about 2,800 employees (versus 16 accommodation facilities with 130 employees) in the 3-county study area in 2014. Average annual foodservice wages ranged from $11,500 to $13,400, while annual accommodation wages ranged from $12,500 to $17,800.

Study Area:
The three counties that include the master plan study area have a total employment base of about 29,000, representing 12.6% of the metro area’s economy. Manufacturing is still the largest employer in this area, comprising of about 5,800 jobs or 20% of the employment base. Retail trade is also an important sector, representing 14% of area jobs, followed by education at 13% and health care at 12%. Accommodation & foodservice, again an indicator of tourism activity in the area, accounts for about 10% of the area’s jobs, roughly equivalent to the role of tourism in the regional economy. Accommodation & foodservice is the 5th-largest sector in this study area. The overall employment base in the study area is summarized below.

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Employment by Place:

Employment information and trends were collected and analyzed for each of the designated Census places located within the study area (which is somewhat smaller than the full 3-county area). Overall, there were about 13,580 jobs in study area places in 2014. Study area jobs and economic base are highly concentrated in Fort Oglethorpe, which spans two highway corridors and includes industrial parks and other business locations. Fort Oglethorpe had more than 6,400 jobs in 2014, accounting for nearly one-half of the study area’s employment base.

Ringgold is the other significant economic hub in this study area, with about 3,900 jobs or nearly 30% of the area’s employment base. Other communities like Rossville (7%), Chickamauga (5%), Lookout Mountain (4%), Chattanooga Valley (3%), Fairview, Indian Springs, and Lakeview have relatively small shares of the study area’s existing jobs base. Ultimately, any economic impacts from bike/ped trails would need to be felt at least in Fort Oglethorpe and Ringgold in order to generate significant benefits to the broader study area.

This area lost about 1,080 jobs or 7.4% of its employment base since 2002, mostly in manufacturing. Three places experienced the greatest job losses – Fort Oglethorpe (1,070 jobs or 14%), Chattanooga Valley (250, 36%), and Rossville (100, 10%). At the same time, several communities have seen their economies grow over this same period. Lookout Mountain added more than 150 jobs, yielding a 47% increase in employment. Ringgold added 170 jobs (an increase of nearly 5%). Chickamauga also saw a small increase in employment since 2002. Several smaller communities like Lakeview saw declining employment while others (Fairview, Indian Springs) added a few jobs since 2002. To sum, the area has seen an overall decrease in employment but there are small pockets of growth.

Tourism-Related Sales:

Sales trends in the accommodation & foodservice (A&FS) sector were analyzed for the region, study area, and individual communities. The Chattanooga MSA had $1.1 billion in accommodation & foodservice sector sales in 2012, including $182.9 million in accommodation services and $906.8 million in restaurants, drinking places, and other foodservices. A&FS sector sales were not available for Walker or Dade counties since businesses withheld information from the Census. However, information was available for Catoosa County, which saw A&FS sales of $87.5 million in 2014, up 14.4% from $76.5 million in 2002. Of the total, $5.7 million was in accommodation and $81.85 million in foodservice. Interestingly, accommodation sales fell by 23.2% between 2002 and 2014, while foodservice sales increased by 18.5% during that same period in Catoosa County.

Sales & Wages by Place:

Sales data are spotty, depending on whether businesses opted to supply the information as part of the Economic Census. However, 2014 data does exist for the two largest business hubs, Fort Oglethorpe and Ringgold. Fort Oglethorpe had total A&FS sales of $54.2 million in 2014, including $53.1 million in foodservice and $1.1 million in accommodation sales. The Census indicated 1,052 foodservice jobs and only 7 accommodation jobs in Fort Oglethorpe. Annual wages averaged $13,200. Ringgold had $19.1 million in A&FS sales, including $16.8 million in foodservice and $2.3 million in accommodation sales. Wages in the accommodation industry averaged $17,200 for 29 workers, while wages for the city’s 400 foodservice workers averaged $13,400.
Business Inventory:
Field reconnaissance and business inventories, coupled with business interviews and Census data help provide information on the scale, location and operation of the business base within the study area. In general, study area businesses and economic base are highly concentrated in several important commercial corridors, including Rossville Boulevard / U.S. Route 27 (Chattanooga-Rossville-Fort Oglethorpe) and Georgia Route 2 (Battlefield Parkway from Fairview to Ringgold). Key observations are provided below on the character and business mix for each of the business nodes and corridors.

Rossville Boulevard / Rossville:
The Rossville Boulevard commercial corridor extends south through Chattanooga’s urban neighborhoods into Rossville. Within Chattanooga, Rossville Boulevard offers a mix of pawn shops, auto repair businesses, used car lots, hair supply enterprises, wrecking services, bars, liquor stores, and fast food joints. An estimated 5 to 10% of the commercial space in this corridor is vacant or otherwise unoccupied.

There is little if any demarcation or change in character between Chattanooga and its neighbor Rossville to the south, which offers a similar business mix and urban highway orientation. There are several jewelers, groceries, cleaners, pharmacies, and banks; but an equal mix of tobacco suppliers (5), pawn shops and payday loan businesses (9), dollar stores (2), gas stations & auto repair shops (18), used car lots (11), and other highway-oriented businesses.

Rossville, with a population of about 4,100, offers some tourism appeal including gateway monuments, an urban core with “good bones,” and the John Ross House. Businesses catering to the Hispanic community add some international flavor. There is little interpretation and few design elements to direct and appeal to visitors. Other than the John Ross House, which is surrounded by a chain-link fence and located in a somewhat hidden back way, there are few anchor attractions or tourism services to draw visitors. Bicycle and pedestrian accessibility is also de-emphasized except in the urban core.

Tourist-oriented businesses and sites include the John Ross House, Roxy’s Restaurant (pictured), the Iowa Monument, the Big Biscuit Barn, and a handful of others. The Super 8 Motel and EconoLodge serve a low-budget clientele.

Fort Oglethorpe / Lafayette Road - US 27:
With about 9,300 residents, Fort Oglethorpe is the largest city in the study area. Lafayette Road provides a gateway into and out of Fort Oglethorpe, part of the Chickamauga & Chattanooga National Military Park (C&CNMP). As such, it is an important opportunity for leveraging the economic benefits of heritage and recreation tourism. Lafayette Road has several “big box” stores (Big K Mart, Sav-A-Lot) and smaller businesses. While the corridor has a highway orientation like in Rossville, the business mix is somewhat less dependent on discount merchandising, auto repair, used car sales, and related payday financing.

There are a number of tourist-related and specialty businesses in this node (aside from fast food restaurants, convenience stores, and gas stations) that may appeal to heritage, recreation and other visitors. Among these are Susie’s Antiques & Collectibles, Classic Blades (replica weaponry & collectibles), Park Place Restaurant, Karen’s Gifts, Tooie’s Treasures, Lilly’s Produce, Somewhere in Time Souvenirs, Welcome Home, and a few others. According to business operators, tourists visit the battlefield, stay at the local B&B and account for not more than 2-3% of normal business (except at a couple of antique businesses near the entrance to C&CNMP). A business called “The History Company,” which offered antique military equipment and supplies (along with tours and a “Southeast Veterans Museum”), appears to have closed. Local motels in this area include Royal Inn (weekly/hourly), Super 8, EconoLodge, and Days Inn.

Perhaps most pertinent to this study is the recent opening of a new bicycle shop, Battlefield Bicycles, located at 2862 Lafayette Road. The owner of this 1,500 square-foot shop intends to market his products and services (bicycles for sale or rent, equipment, repairs, and tour packages) to the nearly 1.0 million visitors to Chickamauga & Chattanooga National Military Park (C&CNMP), noting that the Visitors Center is located just a few blocks away from his front door.

The location may provide “oceanfront” value for tourism-oriented businesses, the physical environment, marketing, management, and business mix does not generally promote the capture of potential tourist-generated sales. According to businesses, the City of Fort Oglethorpe has apparently received a $3.0 million grant from Georgia DOT for “beautification” of the corridor. But business people in the area are not convinced that the proposed plan will address their concerns and interests in underground utilities, slowing traffic, creating wider bicycle and pedestrian lanes, landscaping & beautification, improved pedestrian crossings, enhanced “park city” road design, and directional signage.

Economic Development Strategy
Randall Gross
Development Economics
RAGAN SMITH
Economic Development Strategy
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Economic Development Strategy
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Development Economics
RAGAN SMITH
Existing Economic Base Analysis
There are few bicycling or hiking enthusiasts who stay at this hotel, except during major events like volleyball tournaments. Substantial share of business generated by team sports and recreation activities like softball, basketball, and it's less expensive to stay outside of the city. There is a Rock City, Aquarium), and stay in Ringgold because are there to visit Chattanooga attractions (Ruby Falls, and 40% corporate stays. Destination leisure travelers are relatively small. Perhaps 80% of business generated area. The hotel opened in 2008 and offers 78 rooms. The more than six-mile corridor from U.S. Route 27 to I-75 offers a dizzying array of chain commercial activity, including a significant number of fast food restaurants (20+), dollar stores, big box retailers (Big K Mart, Home Depot, Lowe's, Wal Mart, Hobby Lobby), auto-related businesses, groceries and drugstores, among others. There are few tourist-oriented businesses in this corridor, per se, although many visitors no doubt patronize the fast food restaurants, full-service chain restaurants (Golden Corral, Applebee's, O'Charley's) and convenience businesses in this corridor. There are also industrial parks and new housing developments appealing to relocating retirees.

Georgia Winery is the only major anchor tourist attraction in this corridor. The winery opened in 1989. Adjacent to the winery is a campground and Subway sandwich shop. Most visitors are snowbirds or sunbirds traveling on I-75 between the Midwest and Florida. According to sales managers, the winery does not see many recreational tourists, such as bicyclists, except when there is a race in the area.

The Hampton Inn at I-75 and Battlefield Parkway is among the few Class 3+ hotels in the study area. The hotel opened in 2008 and offers 78 rooms. Occupancy is extremely high for this type of property (at close to 90%), although the number of keys is relatively small. Perhaps 80% of business generated for this hotel is pass-through, with about 60% leisure and 40% corporate stays. Destination leisure travelers are there to visit Chattanooga attractions (Ruby Falls, Rock City, Aquarium), and stay in Ringgold because it's less expensive to stay outside of the city. There is a substantial share of business generated by team sports and recreation activities like softball, basketball, and volleyball tournaments.

There are few bicycling or hiking enthusiasts who stay at this hotel, except during major events like the Iron Man competition or the Battlefield Marathon (at C&CNMP). Some visitors do ask about trails such as Ringgold's walking trails, and management estimate that about two or three guests per month bring bicycles (accounting for 0.12% of total occupancy). Most bicyclists are passing through or headed to specific mountain trails, and none are arriving in Fort Oglethorpe or Ringgold as a destination. One of the challenges for marketing the hotel has been the lack of dining options in the area (other than fast food in Battlefield Parkway or a handful of full-service restaurants including Farm-to-Fork, Home Plate, and Raphael's). That situation may be changing slightly, with the construction of a steak house underway next door.

Downtown Ringgold:
Downtown Ringgold, the center of a town of 3,580 people, is one of the few substantial historic business districts in the study area. The downtown area offers a charming, walk-able historic environment for tourists and visitors, with a pleasant mix of businesses including a few restaurants, antique shops, and other specialty venues as well as convenience goods. History has been well-interpreted through Ringgold's Main Street organization, with sites clearly marked and the historical context explained. Several sites of special significance include the Ringgold Depot (a Civil War site) and Barger Bridge. There are also the Ringgold Feed & Seed buildings that have been converted to tourist-oriented retail use. Ringgold was also famous for its wedding chapels (which catered to destination visitors attracted by the County's relatively lax wedding requirements). Among the famous couples who tied the knot in town were George Jones & Tammy Wynette and Dolly Parton & Carl Dean. The courthouse issues 2,000 to 2,400 marriage licenses per year (in a town of 3,500 residents).

While the downtown mix includes businesses common in any County Seat (e.g., attorneys and real estate offices, newspaper, hair salons, insurance agencies, grocery store). Ringgold also has a large number of tourist-oriented businesses including North Georgia Relics & Metal Detectors, Keeping Treasures Alive (antiques & collectibles), Unik Tings!, Jay’s Antiques, Kudzu (wedding/home furnishings), Shabby Chic Boutique, It’s Sew Time, Ringgold Art & Furniture Gallery, Trustee Sale Antiques, Vintage Gathering Antiques, and the Feed & Seed Antiques, among others.

Areas just outside of downtown (Clleburne Shopping Center, Lafayette Street, etc) generally offer more typical area-serving convenience businesses, fast food, auto-related, and discount merchandise. However, there are a few interesting local businesses that potentially appeal to visitors: Rock Bottom Gypsy Boutique, Lope Mountain Music, and a few others. Closer to I-75 are gas stations, fast food restaurants, and motels including Holiday Inn Express, Super 8, Home Town Inn, and the Villa Motel.

Downtown Ringgold, like Fort Oglethorpe, also hosts a business that is particularly well-suited to the expansion of the region’s trail system: Above the Ridge Outfitters, which supplies hiking, camping, golf, and bicycling gear, apparel, footwear, and accessories. This business relocated to Ringgold in 2012 and expanded to its current 3,000 square-foot store in 2016. The owners estimate that about 85% of their business is generated from within the Chattanooga region, particularly those areas not already served by outfitters including Rock Creek (Chattanooga) and Rock Outfitters (Dalton). Residents from throughout the area come to walk their dogs, walk/ bike/hike trails, or explore. An estimated 60% are residents of surrounding areas of northwest Georgia - Ringgold, Dalton, and Tunnel Hill. Another 30% reside in Chattanooga, East Ridge, Ooltewah, and other suburbs in Tennessee. Overall, about 25 to 35% of the store’s customers are recreation enthusiasts – hikers, walkers, bikers and others requiring apparel for their sport.

Of those 10-15% of customers originating from outside of the area, the majority are mountain biking and exploring, while about one-third of visitors are tourists passing through en route to Florida who stop to visit antique shops or grab a bite to eat at Home Plate. Many take Exit 348 off I-75 and follow signs to Ringgold’s Historic (downtown) District. Many of the tourists are seniors passing through or visiting family in the area. Some live near Atlanta. Only a “handful” of out-of-town visitors are bicycling – often mountain bikers, estimated at 2 per week (about 1.6% of all customers). Mountain bike destinations include White Oak, Enterprise South, Dry Creek Snake Creek Gap, and Buzzard’s Roost (which is being expanded). Like other businesses, Above the Ridge sees some bicyclists during larger regional events like Iron Man, 3 State 3 Mountain, and Battlefield Marathon. The owners would like to see more events in north Georgia.
Chickamauga:

Chickamauga is an historic town of 3,100 people located not far from the Chickamauga Battlefield. The town is accessible primarily via U.S. Route 27 and Lafayette Road, with direct access to C&CNMP. Chickamauga offers groceries (Food Lion), convenience goods, personal services, banks, and other necessities for its residents.

But the town also offers tourism-oriented businesses like restaurants (Souther Style Café, The Grind) and antique & gift shops (Sophie’s Fine Gifts & Collectibles, Memories & More, Where the Heart Is, Galleries on Gordon, Oh Fiddle Dee, etc) along with visitor assets including the Walker County Regional Heritage Museum, Tennessee Valley Railroad (Chickamauga Turn, restored Depot), Gordon Lee Mansion, Coke Ovens, Crawfish Spring, Lee & Gordon Mills, Veterans of All Foreign Wars Museum, and others. Unfortunately, historic Crystal Spring mill buildings are being demolished, reducing the inventory of heritage buildings and sites. The Walker County Regional Visitor Information Center is located near Chickamauga in Rock Spring. The Chickamauga area offers several lodging establishments, including the General Bragg Inn & Suites, Hidden Hollow, and Mountain Cove Farms Resort.

Lookout Mountain:

Lookout Mountain offers a myriad of visitor attractions, centered around the family-run enterprises associated with Rock City, including Ruby Falls, Fairyland Caverns, and Incline Railway, but also including Point Park. The town of 1,600 is also home to Covenant College. Collectively, the Rock City attractions bring an estimated 400,000 visitors to Lookout Mountain each year. Incline Railway alone ferries 160,000 passengers including commuters. The tiny Town Center of Lookout Mountain burned in a fire several years ago and the city is in the process of encouraging its redevelopment. The city itself is worthy of tourism, given the vintage fairyland theme played out in street names and design throughout the community. The only lodging on the mountain itself are the Chanticleer Inn and Garden Walk B&B.

Other Areas:

There are a number of smaller communities and rural areas with a small business base including tourist-oriented establishments. Several of these communities are relatively suburban, like Chattanooga Valley, and businesses there (like Valu City) offer limited tourist appeal. Boynton/East Boynton has the Choo-Choo BBQ, the Catoosa County Saddle Club, an antique shop, the Georgia Winery (and campground), a few restaurants, churches, gas stations and schools. Burning Bush has a gas station and a handful of auto-related and convenience businesses.
Overview:
Based on the field reconnaissance, interviews, tourism trends, economic base, and other inputs, the potential bike/ped trail “user groups” and market base were identified for the study area. The existing market generated by these user groups was estimated and quantified as a baseline for identifying market opportunities and defining economic impacts of proposed new or improved trail routes. This existing user group market base is summarized below.

Military Heritage Tourists & Civil War Enthusiasts:
One of the existing and potential target markets for bicycle, pedestrian and other trail use within the study area is the heritage tourist. The region is saturated with Civil War and military history, serving as the home of the Chickamauga & Chattanooga National Military Park (C&CNMP) as well as Fort Oglethorpe. Chickamauga Battlefield is one of the most-visited Civil War memorial sites in the country. Northwest Georgia was also home to the Chickamauga and Cherokee nations, forcibly removed through the Trail of Tears, whose various “Roundup Routes” originated in areas located just south of the study area (Rome, Fort Newman, Fort Wool, Fort Cumming, etc). This heritage of national significance, coupled with local history relating to coal furnaces, agriculture, and other aspects of 18th and 19th century life, provide a concentrated snapshot of American history.

Existing Market Base:
The existing market base is driven largely by the approximately 1.0 million visitors to C&CNMP, including an estimated 57,300 “core” heritage tourists (e.g., military and Civil War history enthusiasts) at Chickamauga Battlefield. While there are also tourist visits recorded for other area sites including Fort Oglethorpe’s Historic District, there is significant overlap between these attractions. As noted earlier, the demographics of heritage tourists point to a more affluent, well-educated, and older visitor (nearly 50% are over the age of 50).

Casual Trail Participants. About 53% of C&CNMP visitors participate in hiking, walking or jogging in the park. That percentage translates into about 337,000 people at the Chickamauga sites in the study area. More specifically, surveys indicated that about 5% of visitors participate in bicycling activities in the park. This share translates into about 32,000 bikers within the study area.

Day Trippers:
The study area comprises a portion of the Chattanooga Metropolitan Statistical Area (MSA). As such, some people commute and travel throughout the area on a regular basis for work, recreation and entertainment.

Existing Market Base:
The Chattanooga MSA market has 548,000 residents, or about 415,000 outside of the study area. Chattanooga-area residents who visit the study area to drive/tour, bike or walk on weekends, or before and after work, are an important target market for the region’s trail system. At present, many of these day trippers visit C&CNMP or several of the small business districts (Chickamauga, Ringgold) in the area. Occasionally they visit the Georgia Winery, Fort Oglethorpe, and other local attractions. A few ride as passengers on the Tennessee Valley Railroad to Chickamauga and through to Summerville. Based on C&CNMP surveys, interviews, and area attendance data, it is estimated that about 149,000 Chattanoogans visit C&CNMP and other locations in the study area each year.

“Hard-Core” Bicycling Enthusiasts:
Clearly, an important target market for bike/ped trails will be hiking and bicycling enthusiasts, including those competition-level bikers who participate in large events. The study area provides limited existing opportunities for trail use by experienced bikers, who prefer dedicated lanes and accommodation. Bicycling is generally limited to the C&CNMP road system, local Ringgold trails, and mountain biking areas in more topographically-challenging terrain.

Existing Market Base:
It is estimated that about 2.3-4.0% of C&CNMP’s bicyclists (about 1,200 to 2,000 per year) are enthusiasts or “hard-core” bikers. The majority of bicycling visitors come from Chattanooga and surrounding areas on weekends or before/after work for recreational purposes including walking and biking. As such, there is some overlap between this group and the “day-trippers” discussed above. The Battlefield Marathon attracts up to 1,500 riders (capacity is limited), largely from within the tri-state area (Tennessee, Georgia, and Alabama). The 3 State 3 Mountain Challenge also attracts bicyclists to the study area. Lookout Mountain is incorporated into that event.
Chattanooga Destination Visitors:
Chattanooga has attracted tourists in large numbers for decades, thanks in part to the convergence of the Dixie Highway (U.S. Route 41) and now, I-75, with spectacular natural scenery and Civil War heritage of national significance. Family-operated attractions on Lookout Mountain also played an important role in growing Chattanooga’s reputation as a family-friendly visitor hub. The Tennessee Aquarium and a host of other attractions continue to build on this asset base. The result is a large destination market for overnight family visits and convention business.

Existing Market Base:
The Chattanooga area attracts an estimated 3.0 million visitors per year. While many of Chattanooga’s sites have national and international appeal, the city is marketed primarily to target markets within a 250-mile radius in Tennessee, Georgia, and Alabama. This core destination market is evident in attendance trends, sales, and survey output for C&CNMP, Fort Oglethorpe, and other visitor attractions and tourist-oriented businesses. That being said, there is also an “inflow” factor oriented to “Snowbirds.”

“Snowbirds”:
As in the early days of automobile travel along U.S. 41, Chattanooga and northwest Georgia continue to benefit from “inflow” tourism from pass-through long-distance travelers headed from cold, Midwestern states and Canada to sunny Florida and other southeastern destinations. The typical snowbird is older and more affluent than the general population. The snowbirds are not headed to Chattanooga as a destination. Nor are they arriving as heritage tourists or recreation enthusiasts. They typically do not stay longer than one night in the area, if at all. However, their volumes are significant, so there are opportunities to leverage even a small portion of this market through extended and marketed trail use.

Existing Market Base:
The I-75 Georgia Visitors Center indicates that many of their 1.7 million visitors do stop en route at Chickamauga & Chattanooga National Military Park (C&CNMP) or at the Georgia Winery (located near Ringgold, adjacent the interstate). Many are looking for places to eat, or purchase gas. An estimated 30 to 35% of their visitors (560,000) are looking for outdoor recreation or adventure destinations such as hiking, walking, biking, or kayaking trails. About 25% of visitors (425,000) are looking for a place to take a walk, and the center currently directs them to C&CNMP or to trails one hour south of the center at Cartersville or in the Pine Mountain Recreation Area. These trails are well-marked and maintained, located near the interstate, and have lighted parking lots. It is estimated that about 135,000 are looking for more active recreation beyond walking, such as on hiking, biking, or kayaking trails.

As noted earlier in this report, less than 2-4% (51,000) might be considered “hard-core” recreation enthusiasts (and about 10% of these, 5,000 – 6,000) are specifically looking for biking or hiking trails). Most of those enthusiasts tend to be young males headed to a specific trail or other recreation destination in the state. Hiking destinations include Cloudland State Park or Fort Mountain. Biking destinations include Woodstock (Cherokee County) and the Silver Comet Trail. Kayaking destinations include landings along Chickamauga Creek. A handful of center visitors are participating in specific events, such as the Iron Man competition. To sum, visitors looking for some low-impact recreation outlet are an important component of the snowbird profile, but hard-core recreation enthusiasts comprise a very small share of these visitors.

Nature Enthusiasts:
The Chattanooga area and Tennessee Valley are attractive locations for nature enthusiasts, such as bird watchers, campers, and other passive recreation users. This group is differentiated from other outdoor recreation enthusiasts, such as active recreation participants in competitive bicycling, running, skiing, canoeing, rock climbing, or kayaking. Cloudland Canyon is certainly a prime anchor opportunity for attracting these visitors, due to its relatively unspoiled beauty, nature-watching, and spectacular vistas.

Existing Market Base:
This is among the most difficult groups to quantify, since one can enjoy nature without purchasing a ticket to do so. There is also significant overlap with other outdoor recreation groups and family tourists, many of whom participate in a variety of activities. Most often, nature enthusiasts use trails for walking and nature viewing. Certainly the Cloudland Canyon visitor base is the best indicator of this existing market in the study area. That park attracts about 250,000 visitors per year. A large share of visitors are engaged in passive outdoor recreation activities.
### Estimated Unit Cost of Facilities

<table>
<thead>
<tr>
<th>Name</th>
<th>Unit</th>
<th>Unit Cost</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advisory Shoulder</td>
<td>Linear Foot</td>
<td>$14</td>
<td>Assumes removal of center striping from roadway and installing new striping and signage.</td>
</tr>
<tr>
<td>Yield Roadway</td>
<td>Linear Foot</td>
<td>$17</td>
<td>Assumes removal of center striping from roadway, asphalt removal, and installation of stone or mulch in parking areas.</td>
</tr>
<tr>
<td>Bike Boulevard</td>
<td>Linear Foot</td>
<td>$16</td>
<td>Assumes installation of sharrows, signage, and intersection treatments on neighborhood streets or allies.</td>
</tr>
<tr>
<td>Bike Lane</td>
<td>Linear Foot</td>
<td>$10</td>
<td>Assumes removing travel lane stripe, bike lane restripe, pavement markings, and signage on one side of street. No intersection improvements.</td>
</tr>
<tr>
<td>Separated Bike Lane</td>
<td>Linear Foot</td>
<td>$360</td>
<td>Assumes use of existing curb and drainage, install new curb, landscape buffer, signage, and pedestrian improvements on one side of the road.</td>
</tr>
<tr>
<td>Greenway/Multiuse Path</td>
<td>Linear Foot</td>
<td>$168</td>
<td>10’ Path constructed in open space w/o need for moving curbs or installing utilities. Does not include R/W acquisition or signal upgrades.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Each</th>
<th>$500</th>
<th>Includes post</th>
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</thead>
<tbody>
<tr>
<td>Sign</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Striping (Painted)</td>
<td>Linear Foot</td>
<td>$2</td>
<td></td>
</tr>
<tr>
<td>Remove Striping</td>
<td>Linear Foot</td>
<td>$4</td>
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### Estimated Unit Cost of Amenities

<table>
<thead>
<tr>
<th>Name</th>
<th>Unit</th>
<th>Unit Cost</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curb Extension</td>
<td>Each</td>
<td>$16,800</td>
<td>40 feet x 8 feet</td>
</tr>
<tr>
<td>Pedestrian Refuge</td>
<td>Each</td>
<td>$14,200</td>
<td>40 feet x 8 feet median w/ detectible warnings in crossing area</td>
</tr>
<tr>
<td>Raised Crossing</td>
<td>Each</td>
<td>$16,000</td>
<td>40 feet long</td>
</tr>
<tr>
<td>ADA Ramp</td>
<td>Each</td>
<td>$3,000</td>
<td></td>
</tr>
<tr>
<td>Fence/Barrier</td>
<td>Linear Foot</td>
<td>$130</td>
<td></td>
</tr>
<tr>
<td>Lighting</td>
<td>Each</td>
<td>$8,500</td>
<td>Assumes minimum of 8 lights</td>
</tr>
<tr>
<td>Pedestrian Signal</td>
<td>Each</td>
<td>$2,000</td>
<td>At previously signalized intersection; no cabinet upgrades required</td>
</tr>
<tr>
<td>Rectangular Rapid Flashing Beacon</td>
<td>Each</td>
<td>$19,800</td>
<td>Assumes a pair of two RRFB’s installed at one crossing; solar powered</td>
</tr>
<tr>
<td>Pedestrian Hybrid Beacon</td>
<td>Each</td>
<td>$69,500</td>
<td>At location where electricity already exists; no utility location/relocation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Unit</th>
<th>Unit Cost</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crosswalk - standard</td>
<td>Each</td>
<td>$1,000</td>
<td>Assumes 40 feet x 8 feet</td>
</tr>
<tr>
<td>Crosswalk - enhanced</td>
<td>Each</td>
<td>$2,800</td>
<td>Assumes 40 feet x 8 feet</td>
</tr>
<tr>
<td>Crosswalk - pattern/texture</td>
<td>Each</td>
<td>$7,200</td>
<td>Assumes 40 feet x 8 feet Street Print with two colors.</td>
</tr>
<tr>
<td>Sidewalk w/o curb and gutter</td>
<td>Linear Foot</td>
<td>$45</td>
<td>Assumes a 5-foot sidewalk along one side of road</td>
</tr>
<tr>
<td>Sidewalk w/curb and gutter</td>
<td>Linear Foot</td>
<td>$90</td>
<td>Assumes a 5-foot sidewalk along one side of road</td>
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<tr>
<td>Street Tree</td>
<td>Each</td>
<td>$1,000</td>
<td>Includes tree pit</td>
</tr>
<tr>
<td>Bench</td>
<td>Each</td>
<td>$2,500</td>
<td>Includes installation</td>
</tr>
<tr>
<td>Bus Shelter</td>
<td>Each</td>
<td>$20,000</td>
<td></td>
</tr>
<tr>
<td>Trash/Recycling Receptacle</td>
<td>Each</td>
<td>$1,800</td>
<td>Includes installation</td>
</tr>
<tr>
<td>Wayfinding Sign</td>
<td>Each</td>
<td>$5,000-$15,000</td>
<td>Does not include graphic design. Materials play role in cost.</td>
</tr>
</tbody>
</table>
### Types of Trail Users:
- Heritage Tourists - Civil War / Military Enthusiasts
- Day Trippers - Chattanooga MSA Resident Pedestrians & Bicyclist
- “Hard Core” Bicyclist - Competition Level / Enthusiasts
- “Snowbirds” - Midwest / Canadian Pass-Through Travelers
- Nature Enthusiasts
- Chattanooga Destination Visitors

### Types of Economic Opportunities:
- Visitor Attractions
  - Enhancing Existing Facilities
  - Development of New Venues
- Visitor Services
  - Lodging
  - Transportation (e.g., shuttles, tour operations, bike rentals)
- Retail & Restaurants
- Suppliers (e.g., wholesalers, Agricultural Producers, etc.)

### Types of Economic Benefits:
- Business Sales & Revenue, Establishments
- Employment & Income
- Downtown / Corridor Revitalization
- Fiscal Revenues (e.g., Retail Sales Taxes)
Measuring Economic User Groups

Based on the field reconnaissance, interviews, tourism trends, economic base, and other inputs, the potential bicycle and pedestrian routes have specific types of “user groups” that identify who would be likely to use them. The existing market generated by these user groups was estimated and quantified as a baseline for identifying market opportunities and defining economic impacts of proposed new or improved trail routes. This existing user group market base is summarized below.

Military Heritage Tourists & Civil War Enthusiasts:
One of the existing and potential target markets for bicycle, pedestrian and other trail use within the study area is the heritage tourist. The region is saturated with Civil War and military history, serving as the home of the Chickamauga & Chattanooga National Military Park (C&CNMP) as well as Fort Oglethorpe. Chickamauga Battlefield is one of the most-visited Civil War memorial sites in the country. About 53% of C&CNMP visitors participate in hiking, walking or jogging in the park. That percentage translates into about 337,000 people at the Chickamauga sites in the study area. More specifically, surveys indicated that about 5% of visitors participate in bicycling activities in the park. This share translates into about 32,000 bikers within the study area.

Day Trippers:
The study area comprises a portion of the Chattanooga Metropolitan Statistical Area (MSA). As such, some people commute and travel throughout the area on a regular basis for work, recreation and entertainment. The Chattanooga MSA market has 548,000 residents or about 415,000 outside of the study area. Chattanooga-area residents who visit the study area to drive/tour, bike or walk on weekends, or before and after work, are an important target market for the region’s trail system. It is estimated that about 149,000 Chattanoogans visit C&CNMP and other locations in the study area each year.

“Hard Core” Bicycling Enthusiasts:
Clearly, an important target market for bike/ped trails will be hiking and bicycling enthusiasts, including those competition-level bikers who participate in large events. The study area provides limited existing opportunities for trail use by experienced bikers, who prefer dedicated lanes and accommodation. Bicycling is generally limited to the C&CNMP road system, local Ringgold trails, and mountain biking areas in more topographically-challenging terrain. It is estimated that about 2.3-4.0% of C&CNMP’s bicyclists (about 1,200 to 2,000 per year) are enthusiasts or “hard-core” bikers. The majority of bicycling visitors come from Chattanooga and surrounding areas on weekends. The Iron Man, The Battlefield Marathon and The 3 State 3 Mountain Challenge are also major events that draw large numbers of people and occur within the study area.

Chattanooga Destination Visitors:
Chattanooga has attracted tourists in large numbers for decades, thanks in part to the convergence of the Dixie Highway (U.S. Route 41) and now, I-75, with spectacular natural scenery and Civil War heritage of national significance. Family-operated attractions on Lookout Mountain also played an important role in growing Chattanooga’s reputation as a family-friendly visitor hub. The result is a large destination market for overnight family visits and convention business. The Chattanooga area attracts an estimated 3.0 million visitors per year. While many of Chattanooga’s sites have national and international appeal, the city is marketed primarily to target markets within a 250-mile radius in Tennessee, Georgia, and Alabama. This core destination market is evident in attendance trends, sales, and survey output for C&CNMP, Fort Oglethorpe, and other visitor attractions and tourist-oriented businesses. Many of these visitors stop at the Georgia Visitors Center on I-75 near Ringgold. An estimated 30 to 35% of their visitors (560,000) are looking for outdoor recreation or adventure destinations such as hiking, walking, biking, or kayaking trails. About 25% of visitors (425,000) are looking for a place to take a walk.

Nature Enthusiasts:
The Chattanooga area and Tennessee Valley are attractive locations for nature enthusiasts, such as bird watchers, campers, and other passive recreation users. This group is differentiated from other outdoor recreation enthusiasts, such as active recreation participants in competitive bicycling, running, skiing, canoeing, rock climbing, or kayaking. Cloudland Canyon is certainly a prime anchor opportunity for attracting these visitors, due to its relatively unspoiled beauty, nature-watching, and spectacular vistas. This is among the most difficult groups to quantify, since one can enjoy nature without purchasing a ticket to do so. There is also significant overlap with other outdoor recreation groups and family tourists, many of whom participate in a variety of activities. Certainly the Cloudland Canyon visitor base is the best indicator of this existing market in the study area. That park attracts about 250,000 visitors per year. A large share of visitors are engaged in passive outdoor recreation activities.
Loop Opportunities

Legend
- Loop Opportunities
- ChickChatt Loop
- Downtown Ringgold Loop
- Lookout Mountain Loop
- Ringgold - Graysville Loop
- Existing Bike Routes

Data Sources:
USGS, U.S. Census Bureau, U.S. Forest Service, NOAA, U.S. Fish & Wildlife Service, GDOT, UT Chattanooga ARCS, CHCNGA-TPO

Wildwood Land Trust
Catoosa County
Walker County
Catoosa County
Hitfield County
Walker County
Dade County

TENNESSEE
GEORGIA

Northwest Georgia Economic Development Strategy
Northwest Georgia Feasibility Study for Bikeway & Pedestrian Multi-Use Routes
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Economic Development Strategy
RAGAN-SMITH