



Beattyville-Lee County Bicycle/Pedestrian Master Plan



The heart of the Kentucky River



2022



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INTRODUCTION

Bicycle and Pedestrian Master Plans are developed to address health, safety, tourism, and economic issues. The City of Beattyville and Lee County, Kentucky plan focuses on the needs of the biking and walking pedestrians in the area. According to Kentucky's Vision for Access to Physical Activity Report, active transportation, such as walking or bicycling, allows residents to get physical activity while performing daily routines, such as commuting to work or school. Walking is one of the most popular forms of physical exercise for adults because it is less strenuous than using weights and does not require a lot of skill. This opportunity is supported by Cooperative Agreement number NU58DP006497, funded by the Centers for Disease Control and Prevention (CDC). Funding is awarded to the Kentucky Department for Public Health to implement the project "Kentucky State Physical Activity & Nutrition Program."

PURPOSE OF THE PLAN

The purpose of the Master Plan is to identify, design, construct, and rehabilitate needed walkways and identify places to design and build future bikeways that connect neighborhoods, business centers, parks, and schools. It sets forth ideas and strategies for making Lee County an inviting place to bike and walk. The Master Plan is a guide for city, county, and state governments, developers, road builders, citizens, and bicycle and walking enthusiasts when planning and developing future projects in the community.

BENEFITS OF WALKING AND BICYCLING

There are numerous reasons and benefits to promote walking and bicycling in Lee County. Improved health, mobility, with an enhanced economy and quality of life are just to name a few.

Improved Public Health

In 2019, Kentucky was ranked the 43rd healthiest state in the nation. Lee County ranks 110th in Health Outcomes and 117th for Health Factors out of 120 Kentucky Counties. It is widely recognized that regular daily physical activity reduces the risk for heart disease, diabetes, and obesity. By increasing the amount of public space for convenient and safe recreation and active transportation, Lee County can increase the overall health of the community.

Improved Mobility

Accommodations for walking and bicycling as an alternative means of exercise and travel may appeal to a broader range of individuals within the community. Adults whom have small children at home will be susceptible to use the walkways as a way to enjoy the beautiful scenery that surrounds this area. Better accommodations will also help those who have to use other means of transportation. Small children and the elderly would greatly benefit from having multi-modal choices (non-motorized transportation options) for daily travel and activity. By planning and providing more connections and greater access to all parts of the community, Lee County can increase the ability to meet transportation needs, and help improve the health of its residents.

Enhanced Economy and Quality of Life

A better walking and biking environment improves the quality of life for the surrounding community. Accommodating and safe walking and biking facilities in the community will create more opportunities for social interactions. A community that is walkable and bike-able for all ages will have positive economic advantages over other communities, such as having higher property values, being more attractive to new businesses, being more inviting for new home buyers, and having more to offer tourists. By planning for future bicycle and pedestrian facilities and accommodations, Lee County can additionally benefit and become an even more thriving community within the region.

VISION AND GOALS OF THE PLAN

The overall goals of the Bicycle and Pedestrian Master Plan is that it will guide the city and county as it moves forward with implementing the plan. A goal summary is provided below:

Bicycle and Pedestrian Network and Support Facilities – Developing a network for safe and easy mobility throughout the city, county, and to the regional network.

Safety, Security, and Equity - Providing safe and useful connections between neighborhoods, business centers, parks, recreation facilities and schools. Modal considerations should be made with all residents, especially those who do not have access to private motorized vehicles in mind.

Transportation and Land Use – The adjacent land within the right-of-way of roadways, near commercial areas, and government owned properties should be considered for all uses. These areas are valuable with potential when providing non-motorized travel accommodations where walking and cycling improvements are most needed.

Education and Awareness – Communication lines should remain open so that all users of the transportation network have improved awareness of the need to share the roadways and trails, and recognize and observe traffic safety laws.

Maintenance and Operations – Maintain biking and walking facilities in good condition and serve the purpose for the intended users.

SOCIOECONOMIC ANALYSIS OF BEATTYVILLE

The City of Beattyville, Kentucky, is located in Lee County in southeastern Kentucky. It is located on the Kentucky River, near where the North Fork and South Fork merge. In the 2020 American Community Survey by the US Census Bureau, there were 7,451 residents in Lee County. The county was founded in 1870 and was named in honor of General Robert E. Lee. The county seat, the City of Beattyville is named after early settler and landowner Samuel Beatty. The county has a total area of 211 square miles, in which only 2.4 square miles is water. In 2020 the racial makeup was 95.4% white, 2.8% black, 1.1% two or more races, and 1.4% Hispanic.

The percentage of residents in Lee County below the poverty level is 32.1% in 2020. Also, in 2020, the American Community Survey provided estimates of how workers age 16 and over that travel to work. Below are those estimates. The ACS also determined that the mean travel time to work traveled for 2020 was 44 minutes.

Method of Transportation	Number	Percentage of Working Population
Drove alone in car, truck, or van	1,656	80.3%
Carpooled in car, truck, or van	202	9.80%
Public transportation	0	0.0%
Walked	89	4.32%
Other (taxi, motorcycle, bike, etc)	51	2.47%
Worked at home	64	3.10%

Source: U.S. Census Bureau, Table B08141 2015-2019 American Community Survey 5-Year Estimates

POLICY FRAMEWORK AND PREVIOUS WORK

It is hoped that by adopting this Master Plan, momentum can be gained and lead into adoption of favorable communal policies and ordinances, to finally require consideration, planning, and implementation of adequate future bicycle and pedestrian facilities with all new development and major reconstructions.

Kentucky River Area Development District

The Kentucky River Area Development District, which includes the counties of Breathitt, Knott, Lee, Leslie, Letcher, Owsley, Perry and Wolfe, does not have an active Pedestrian/Bicycle Master Plan, but has published their Goals and Objectives. One goal is to “Continue to support and improve multi-modal transportation in the region.” This goal includes one objective which relates to Pedestrian/Bicycle Facilities:

- Support efforts to promote pedestrian and bicyclists movements along all highways and the development of recreational trails in the region.

Kentucky Transportation Cabinet Bicycle and Pedestrian Plan

In 2002, Kentucky adopted a Pedestrian and Bicycle Policy, in response to a US Department of Transportation publication promoting the acceptance and/or consideration of bicycle and pedestrian facilities in roadway projects. KYTC will consider bicycle accommodations if the roadway project meets one or more of the following criteria:

- A bicycle facility already exists on the current roadway.
- The recommended roadway cross section is urban (curb and gutter). In urban roadway cross sections (curb and gutter), accommodations to assist bicyclists include a range of measures from signage, bicycle-friendly grates, and wide curb lanes, to bicycle lanes.
- Project limits are adjacent to an existing residential, commercial, office, industrial, institutional, public or semi-public use area or adjacent to an area planned to develop into one of these uses within the next 20 years. Planned development may be determined by a local comprehensive plan or the public-involvement process.
- A state, locally, or regionally adopted bicycle plan has designated bicycle improvements or a bikeway in the area of the specific roadway project or for that classification of roadway.
- A KYTC Small Urban Transportation Study has specific bicycle improvements recommended for the roadway project.
- Bicycle traffic exists along the current roadway: This may be determined by the observation of bicycle traffic or by the public-involvement process.
- Public interest in and demand for bicycle accommodations are determined at the planning and preliminary engineering public-involvement stages.

The Beattyville/Lee County Bicycle/Pedestrian Master Plan is intended to strengthen the notion and incorporation of bicycle and pedestrian facilities in KYTC plans. It's also there to provide guidance for making those considerations in the transportation project development process as early as possible. A copy of this plan will be provided to KYTC Central Office, KYTC Highway District Office 10, and to local officials to ensure that this analysis can be used to help develop projects in the area.

FACTORS THAT INFLUENCE WALKING AND BICYCLING IN LEE COUNTY

Destinations

The community has places that can be major attractions for people walking and cycling. These include retail stores, churches, playgrounds, schools, parks, medical facilities, and places of employment. It is important to provide safe and obliging options for all modes of transportation, other than just for motorized travel.

Time and Distance

Walking and biking to destinations is easier and more manageable when doing so in the urbanized downtown area than in the rural sections of the county. Research shows that the average walking trip is less than 1 mile and bike trips are less than 5 miles. Trips with a “recreational” or “exercise” emphasis tend to be longer. If walking and biking becomes more safe and accommodating people are more likely to do so.

Demographics

Those who are unable to drive due to age, medical or economic reasons, or don't have a drivers' license due to traffic violations rely on walking and cycling for transportation. It is important to plan for

the needs of all residents of Lee County. Furthermore, the county should include residents of all abilities.

Environment

Weather and traffic plays an all important role in how often people in the community walk or bike for transportation. Barriers can be created when walking or biking through the county when hot and humid summer conditions and cold and wet winter conditions as well as narrow, curvy roads with fast moving traffic are combined together.

Community Attitudes

A positive perception can play a very important role in how frequently a person will walk or bike for transportation or recreation. If the perception is seen as socially acceptable then the perceptions of the activity will change in a positive manner.



Example of a small sign in Pikeville, KY that could be adapted in Beattyville to promote walking

DESIGN STANDARDS AND GUIDELINES

The Kentucky Transportation Cabinet (KYTC) has published Statewide Pedestrian & Bicycle Travel Policy which provides guidance on planning for and accommodating pedestrians and cyclists in our state's transportation system. It is available at <http://transportation.ky.gov/bike-walk/Pages/Laws-and-Policies.aspx>

In conjunction with KYTC District 10, the City of Beattyville, and Lee County Road Department, planning activities should always include sidewalks and bicycle facilities (where feasible). Rural area roadways should consider including wide paved shoulder (5 feet or wider) when and where feasible to further accommodate non-motorized transportation.

Pedestrian facilities should always be constructed to be compliant with the Americans with Disabilities Act Accessibility Guidelines (ADAAG) to accommodate all people who live in or visit Beattyville. They are available at https://www.ada.gov/2010ADAstandards_index.htm

Paved roadway shoulders should include bicycle gaps within the rumble strips/stripes (10' gaps space every 50') to allow cyclists to exit either the shoulder or the roadway at reasonable interval. The rumbles should not extend continuously onto side roads. Shoulder rumbles that are deemed necessary within the urban boundaries should be the rolled type, as opposed to the more aggressive milled type.

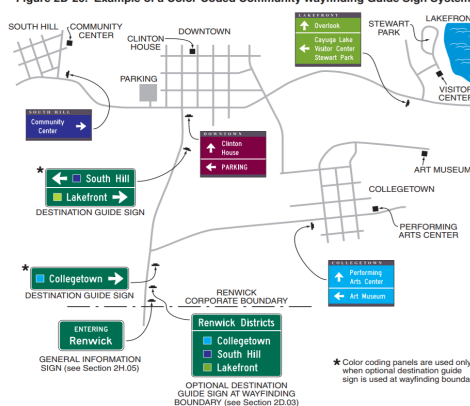
SIGNAGE AND MAPPING

Figure 2D-18. Examples of Community Wayfinding Guide Signs



Source: From MUTCD Manual 2009 Edition with 2012 Revisions

Figure 2D-20. Example of a Color-Coded Community Wayfinding Guide Sign System



Project planners should refer to the Manual of Uniform Traffic Control Devices (MUTCD) and consult with KYTC for all signage associated with roadways, bicycle, and pedestrian facilities before recommending or installing. The MUTCD Manual can be found here: https://mutcd.fhwa.dot.gov/kno_2009r1r2.htm.

It is recommended that a city and county wide bicycle and pedestrian travel and facility map be developed and produced for current and future facilities.

Appropriate bicycling and pedestrian facility wayfinding signage should be considered in conjunction with a citywide navigational map to aid non-motorized travelers with navigation around the city. Appropriate warning signs should be considered and placed in advance of all bicycling and pedestrian facilities when deemed necessary. These signs should be part of the consideration with all new transportation projects.

BICYCLE PARKING

The City of Beattyville should seek to encourage and incentivize businesses and organizations that provide secure and accessible bike parking that is convenient for users.

In general, bicycle racks should be located in a highly visible area to prevent theft, be unobstructed, nor cause any obstruction to other traffic, and be mounted solidly to the ground or building in such a way that it cannot be easily removed. There should be a minimum clearance of 48" around the bike parking area and 72" should be allowed for a single bike lengthwise unless the rack allows vertical mounting. When feasible and possible bike parking should be covered to protect cyclists and their bikes from the weather.

Please refer to the *Association of Pedestrian and Bicycle Professionals Bicycle Parking Guidelines* for more details at http://www.apbp.org/?page=Bike_Parking

DEFINITIONS

Bicycle Boulevard

Motorists and bicyclists share the roadway but it is modified to be desirable for bicycle travel via traffic calming and speed reduction techniques, signage and pavement markings, and intersection crossing treatments. Bicycle boulevards typically provide for the through movements of cyclists while discouraging through trips by motorists (except those directly accessing properties along the route). Bicycle boulevards are typically planned and installed on low-volume, low speed shared streets that run parallel to a major vehicular corridor that is less desirable for bicycling.

Bicycle Gap

A recurring short gap in continuous shoulder rumble strips designed to allow for ease of movement of bicyclists from one side of the rumble to the other. A typical pattern is gaps of 10 to 12 feet between groups of the milled-in elements at 40 to 60 feet.

Bike Lane

A portion of the roadway is designated by striping, signage, and pavement markings for the preferential or exclusive use of bicyclists. Bike lanes can increase bicyclist comfort and safety, promote proper riding, discourage sidewalk riding, and increase awareness and visibility of cyclists to motorists. Bike lanes may also be paired with a painted buffer space to create a **"buffered bike lane"** which further separates the bicycle lane from adjacent motor vehicles lanes or parking lanes. Bike lanes may also be physically separated from motor vehicle traffic by grade or a barrier, such as a median, curb, or parking lane. These **"cycle tracks"** can increase the comfort of less skilled cyclists; however, they are currently classified as 'experimental' in the U.S. and require a detailed design/approval process.

Bicycle Rack

Bike racks are basic infrastructure for a bicycle-friendly community. Bicyclists need a secure location to park their bike just as motorists need a place to park their car.

Bicycle Route

"Bike Route" signage is installed along shared roadways to provide wayfinding and to connect facilities and destinations. For instance, a bike route might be signed along a residential street that connects two trails. It may also identify a preferred route to a destination or through an area of town. The signage also provides a visual clue to motorists that they are driving along a bicycle corridor and should use caution.

Bikeway

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

Crosswalk

That part of a roadway at an intersection included within the connections of the lateral lines of the sidewalks on opposite sides of the highway measured from the curbs or in the absence of curbs, from the edges of the travelable roadway, and in the absence of a sidewalk on one side of the roadway, the part of a roadway included within the extension of the lateral lines of the sidewalk at right angles to the center line, or any portion of a roadway at an intersection or elsewhere distinctly indicated as a pedestrian crossing by pavement marking lines on the surface, which might be supplemented by contrasting texture, style, or color.

Crosswalk Lines

White pavement marking lines that identify a crosswalk.

Curb Cut

A solid (usually concrete) ramp graded down from the top surface of a sidewalk to the surface of an adjoining street. It is designed for pedestrian uses and commonly found in urban areas where pedestrian activity is expected.

Multi-Use Path

Shared use paths are designed for multiple users, including pedestrians, wheelchairs, bicyclists, and inline skaters. They are physically separated from motorized vehicular traffic by an open space or barrier. They are either within the roadway right-of-way, or within an independent right-of-way, often along stream corridors or abandoned rail lines.

Paved Shoulder

At least 4 feet of smooth riding surface, exclusive of rumble strips, is provided for use by cyclists and pedestrians and for disabled motor vehicles.

Rumble Strip

A *shoulder rumble strip* is a longitudinal safety feature installed on a paved roadway shoulder near the outside edge of the travel lane. It is made of a series of milled or raised elements intended to alert inattentive drivers (through vibration and sound) that their vehicles have left the travel lane. An *edge line rumble strip* is a special type of shoulder rumble strip placed directly at the edge of the travel lane with the edge line pavement marking placed through the line of rumble strips.

Sharrow

Bicyclists and motorists share the travel lane, but it is marked with Shared Lane Markings (SLM) or Sharrows to help position bicyclists within the shared lane and to encourage safe passing.

Share the Road

Share the Road warning signage may be installed along shared roadways to alert motorists of the presence of bicyclists along high-use bicycle corridors. For instance, signage might be installed along a popular bicycle commuter route through a neighborhood or along a recreational route regularly used by cyclists in a rural area.

Sidewalk

A walkway separated from the roadway with a curb, constructed of a durable, hard and smooth surface, designed for preferential or exclusive use by pedestrians.

EXISTING CONDITIONS AND ANALYSIS

Lee County and the City of Beattyville has a strong outdoor recreational community. There are many outdoor activities for enthusiasts to take part in such as rock climbing, paddling, mountain biking, and hiking.

From field observations, investigations, and surveys filled out by local residents, very few people commute to work without some sort of motor vehicle. Some non-motorized travel was observed, but it seemed to be concentrated in lower income households throughout the county.

EXISTING BICYCLE RESOURCES AND EVENTS

The group called Cave Run-Red River Gorge Mountain Bike Alliance encourages people to use the existing trails in the area.

EXISTING PEDESTRIAN RESOURCES AND EVENTS

The majority of pedestrian activity in Beattyville is mostly recreational. One of the running tracks in the county are associated with the local high school and city park. Most of the running/walking activity in the area occurs in local neighborhood parks and at the track located at the high school.

Beattyville does not have any specialty sporting goods store. Walking and running shoes are available at several stores.

No designated walking tours exist of the downtown area. Interviews with residents and responses to the public survey also indicate a desire for enhanced marked pedestrian friendly crosswalks downtown.

Within Lee County, outdoor enthusiasts can enjoy the many trails in the county.

FACILITIES CURRENTLY AVAILABLE FOR BICYCLING AND PEDESTRIAN ACTIVITIES

Collection Methods

Data was obtained from the Kentucky River Area Development District database of bicycle and pedestrian facilities. This data was reviewed and updated as appropriate.

Results

The City of Beattyville has a network of sidewalks in the downtown area. There are gaps in the connectivity due to deteriorated or missing sidewalk sections. The total length of sidewalks in the city is approximately 4.75 miles. Marked crosswalks are placed inconsistently around the city. There are no sidewalks outside of the downtown area. A map of the facilities is included in Appendix D.

The counts of bicyclists, pedestrians, and recreational runners that use the transportation system in Beattyville and Lee County are not reliable. Evidence shows that the number of regular walkers and runners are few and a smaller number of active cyclists. The number of cyclists that are visiting is equal to or greater than those who live within the city. Strava heat maps help indicate routes heavily used by bicyclists and/or pedestrians.

Highlights

The City of Beattyville holds many events throughout the year. From the months of July until December a Local Made Market is held on KY-52. In the months of May through September the event Cruise-In is held on Main Street on the first Friday night. In June the Beattyville Bourbon and Moonshine Festival is held in town. The Fourth of July celebration is held at Happy Top Park. The Thunder On The River Offroad Show is held on Main Street in October. The Annual Three Forks Old Engine, Tractor Show and Fish Fry is held in September. The Beattyville Kiwanis Homecoming Fair and Carnival is held at Happy Top Park in August. In October the Wholly Worm Festival is held downtown. The events Small Business Saturday and Christmas Spirit are held in November and December.

A HOMETOWN CHRISTMAS CELEBRATION!

Christmas Spirit 2021

2pm-7pm December 4th
Town Square on Main Street
Beattyville, KY

The Polar Express Trolley
DRESS IN YOUR PJAMAS AND COATS. CLIMB ABOARD THE TROLLEY FOR HOT CHOCOLATE & STORYTIME.

Santa's Workshop
STOP AT CRAFT STATIONS AROUND THE SQUARE AND BE SURE TO WRITE YOUR LETTER TO SANTA.

Kiwanis Treat Bags
A TRADITION THAT IS OVER 100 YEARS OLD! THE KIWANIS WILL BE HANDING OUT TREAT BAGS.

Christmas Spirit Parade - 6pm
SANTA WILL BE ESCORTED TO THE TOWN SQUARE IN THE ANNUAL CHRISTMAS SPIRIT PARADE.

Tree Lighting & Photos with Santa
HELP SANTA COUNT DOWN TO THE LIGHTING OF THE SPIRIT CHRISTMAS TREE.

Facebook #ChristmasSpirit2021
EVENT MADE POSSIBLE BY THE DOWNTOWN BEATTYVILLE ALLIANCE AND ITS MEMBERS, THE BEATTYVILLE/LEE COUNTY TOURISM COMMISSION AND BY COMMUNITY AND BUSINESS DONATIONS.

JUNE 17-18, 2022

BEATTYVILLE BOURBON & MOONSHINE FESTIVAL

YA CAN'T HAVE BOURBON WITHOUT MOONSHINE

Kentucky's largest export...bourbon. Tours and tastings of KY bourbon attracts visitors from all over the world. Add the rich history of moonshine production in the hills and hollers of Appalachia and you have one exciting new festival!

Beattyville, KY is home to a few of these local moonshiners. Located near the Red River Gorge and Natural Bridge State Resort Park. Also close by in Slade, Ky is the new location of the Neeley Family Distillery.

Join in on panel discussions and meet several Discovery Channel Moonshiners and Master Distillers while enjoying live music, crafts, food, and tastings of both bourbon & moonshine.

The Well
BEATTYVILLE'S LIQUOR STORE
26 KY HWY 52
Beattyville, KY 41311

ABV NETWORK
BEATTYVILLE
LEE COUNTY

www.beattyvillebourbonandmoonshinefest.com

ABV NETWORK

BEATTYVILLE, KY
Bourbon & Moonshine FESTIVAL
2022

The Well
NEELEY FAMILY DISTILLERY

HILTBILLYBIKEFEST
Saturday June 18, 2022
at 12:00 PM

DISTILLERS
6/17 @ 7PM
HANK WILLIAMS IV

6PM-9PM
JUNE 17TH, 2022
10AM-7PM
JUNE 18TH, 2022

Distillers Panel
Meet the Moonshiners
Bike Show, Live Music,
Crafts, Food, & Raffles

Enjoy Responsibly.

www.beattyvillebourbonandmoonshinefest.com

SMALL BUSINESS SATURDAY



BEATTYVILLE/LEE COUNTY
Nov 27 - Dec 4, 2021

Contact us to Participate!

If your business would like to participate, call (606) 464-5007 or (606) 464-5038. Complete list of participating locations posted on the website and social media. Facebook/SmallBusinessSaturday

6 Drawings for \$50 CASH

Drawing will on Dec 4th at 5:30pm during the Christmas Spirit activities on Main Street.

How to participate:

- 1) Fill out SBS register tickets at each participating business.
- 2) Visit local participating businesses between Nov 27th and Dec 4th.
- 3) Drop Register Tickets at each location for chances to win cash!

Visit the Website & Facebook/BeattyvilleLeeCountyTourism & Facebook/BeattyvilleMainStreetevent for list of businesses!

Visit LeeCountyKY.com/SmallBusinessSaturday
Facebook #ChristmasSpirit2021



Locally Made Market

FARMER & ARTISAN VENDORS

JULY - DECEMBER 2021
THURSDAYS & FRIDAYS 9AM-4PM
FIRST & SECOND SATURDAYS 9AM-12PM

PRODUCE
BAKED GOODS
CANDY
JEWELRY
JAMS & JELLY

SOAPS
MASKS
EMBROIDERY
DECOR
AND MORE...

26 KY HWY 52, BEATTYVILLE, KY
THE BONEYARD BUILDING ACROSS FROM SHELL



Visit Facebook/LocallyMadeMarketBeattyville/Lee County for a list of vendors and more information.

RESOURCES AND PUBLIC INPUT

COMMUNITY AND CIVIC RESOURCES

The Lee County School System has one middle/ high school which are in the city limits. There is one elementary school located outside the city limits.

The Lee County Public Library and extension office is on KY-11. The court house and city hall are located on Main Street.

Lee County has an abundance of recreational facilities. There are baseball/softball fields, basketball courts, tennis courts, a playground, several shelters, a walking track, and skateboard park. There is also a walking track located at the high school.

The area of downtown Beattyville is a mixture of commercial and residential development. There are retail business areas, restaurants, as well as banking and city government offices. There are also several churches in the downtown area. The shopping center in town contains a grocery store, and bank.

PUBLIC INPUT AND PREFERENCES

Electronic Survey

The early stages of the plan development process included an electronic survey. The survey link was shared on the social media pages of the city, county, the ADD, and other local organizations. The survey included questions for the citizens of Beattyville and Lee County to provide input on their walking and biking habits and preferences. This information was used in the development of the proposed bicycle and pedestrian facility networks and also informed the development of goals and objectives. The following is a summary of some of the survey results. During the time the survey being posted there were 70 responses and 61 comments. Results are in Appendix A.

- ◆ Parents are discouraged from allowing their children to walk to/from school in Beattyville because of traffic conditions and too far from home..
- ◆ Parks, Medical Facilities/Pharmacy, Friend's/Relatives House, and Church are within 2 miles of home that residents could walk or bike to. However, 82.9% of the survey respondents said they used a motorized vehicle as their main source of transportation.
- ◆ The main factors noted as reasons residents don't walk or bicycle around town were insufficient sidewalks/no sidewalks, no bike lanes, and too far from home. 51.5% of people surveyed would consider walking and biking more if they had an accommodating and safer path.
- ◆ The two biggest concerns that discourage people from walking or biking to areas that are close to their place of residence are no sidewalk/ bike lane and sidewalk conditions.

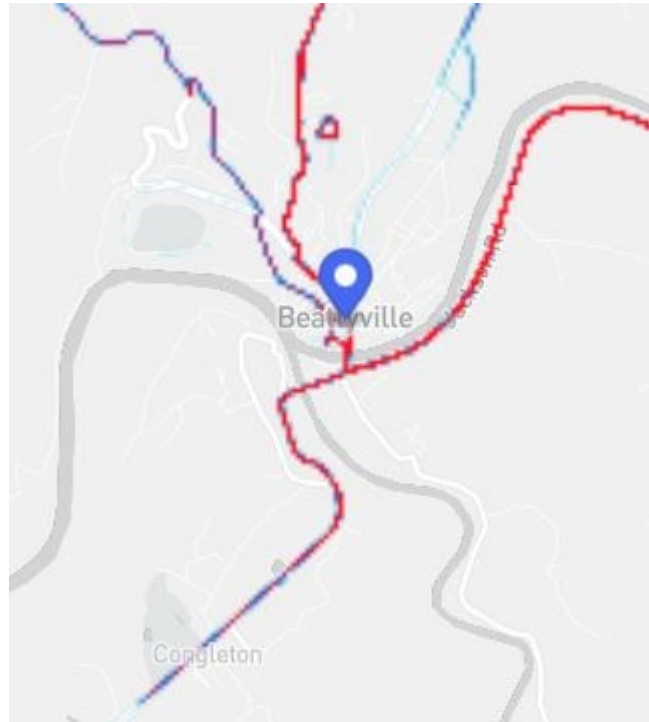
Bike/Walk Events

There are several walking events in the City of Beattyville with many of the organizations in the city and surrounding area.

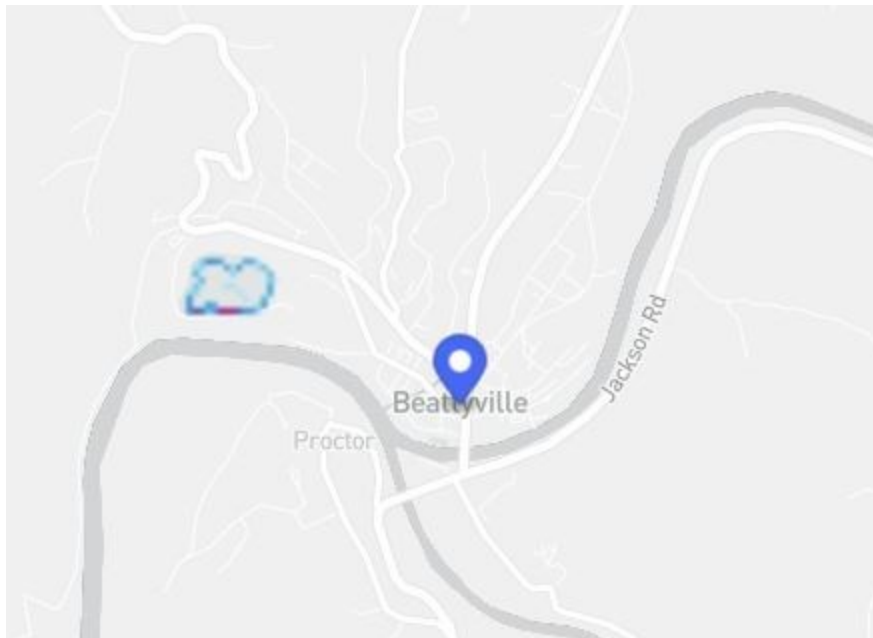
STRAVA MAPS OF CURRENT USERS

The use of Strava Heat Maps can be used in determining the popular areas for bicycling and walking. The maps below show areas for bicycling and walking in Beattyville. For bicycling, the hot areas include Highway 52 and KY-1144. The areas with no dedicated bicycle facilities should have proper signage so drivers of motorized vehicles can be aware. Walking pedestrians greatly employ the walking track at Happy Top Park.

Strava Heat Map of Bicycle Activity in Beattyville, Kentucky



Strava Heat Map of Pedestrian Activity in Beattyville, Kentucky



BIKEABILITY AND WALKABILITY AUDITS

BIKEABILITY AUDIT ANALYSIS

Due to no bike lanes or bike facilities in the county bikability audits were not conducted. In the future when bike lanes and bike facilities are added the City of Beattyville and Lee County, the following questions will be used when performing a bikability audit. Bike lanes will be marked according to the U.S. Department of Transportation's Manual on Uniform Traffic Control Devices (MUTCD).

- Did you have a place to bicycle safely?
 - A) On the road, sharing the road with motor vehicles?
 - B) On an off-road path or trail, where motor vehicles were not allowed?
- How was the surface that you rode on?
- How were the intersections you rode through?
- Did drivers behave well?
- Was it easy to use your bike?
- What did you do to make your ride safer?

WALKABILITY AUDIT ANALYSIS

Representatives from the Kentucky River District Health Department and from the Kentucky River Area Development District conducted a Walkability Audit of downtown Beattyville and surrounding areas. Inventory was taken as to where crosswalk signals were not working/not available, sidewalks that were broken or unlevel, and other issues for pedestrians.

Some of the questions brought up during the Walkability Audit of Beattyville included:

- Location?
- Is there a presence of a suitable walking surface?
- Is there potential for conflict with motor vehicle traffic due to driveway crossing, speed and volume of traffic, large intersections, and low pedestrian viewing?
- Presence and visibility of crosswalks on roads intersecting the segment? Traffic signals meet pedestrian needs with separate walk lights that provide sufficient crossing time?
- Is there cracking, buckling, overgrown vegetation, standing water, etc. on or near the walking path?
- What is the useful path width, accounting for barriers to passage along pathway?
- Is there space separating path from adjacent roadway?
- How is the access for the mobility impaired?
- What is the proximity of construction zones, fences, buildings, noise pollution, quality of landscaping, and pedestrian oriented features?
- What is the amount of shade accounting for different times of day?

PROPOSED FACILITIES AND NETWORK

LIST OF PROPOSED PROJECTS

Every project identified and described in this section is intended to fill an existing need. These projects have been planned to take advantage of existing state or city owned property whenever possible. They have been planned to provide safe, accommodating, and the cost efficient non-motorized transportation solutions.. Map of proposed projects can be seen in Appendix E Figure 1 and Figure 2. The City of Beattyville has a Walk Score of 40 out of 100. Walk Score measures pedestrian friendliness by analyzing population density and road metrics. This score is based on the categories of dining and drinking, groceries, shopping, errands, schools, and culture and entertainment. The city is considered Car-Dependent meaning that most errands require a car.

Project 1: Sidewalk Repairs

Repair existing walks by edging, eliminating trip hazards, adding proper crossing signs and properly draining low places. Sidewalks should meet Americans with Disabilities Act (ADA) standards. The City of Beattyville should work on identifying and repairing trip hazards on existing sidewalks. They can work on repairing other sidewalks that need to be destroyed and rebuilt.

Below is a list of the sidewalks needing immediate repairs:

- Rehabilitate sidewalk on East Main Street from Broadway to Nursing Home
- Rehabilitate sidewalk in city limits to ADA standards.
- Rehabilitate sidewalks where deemed necessary in city limits.

Project 2: Identify Places for New Path Ways

Several locations in Beattyville are in need of new pedestrian path ways, with proper street lighting. By providing better path ways, it will assist those walking to do so in a safe manner. There is a need to connect existing sidewalks in areas that have mixed use development with shopping, restaurants, and medical facilities. Proper lighting would also create a safer area so that pedestrians are more visible.

Below is a list of locations for new or extending sidewalks:

- Add a sidewalk on Center Street from housing project to the Bypass
- Add a sidewalk on West Main Street from Bypass to existing
- Add a sidewalk on River Drive from Broadway to West Main Street
- Add a sidewalk on Short Street from Boone Ave. to KY-52
- Add a sidewalk on Janie Street to KY-52
- Add a sidewalk on Carlisle from walking path to KY-52
- Add a sidewalk on Lumber Street from KY-52 to Main Street
- Connect existing sidewalks on KY-11/Broadway
- Connect existing sidewalks on Grand Ave.

Project 3: Connectivity and Signage of Future Bike Routes

For safety awareness of both cyclists and motor vehicles, “Share the Road” or bicycle warning signs MUTCD W11-1 (<https://mutcd.fhwa.dot.gov/htm/2009/part9/pert9b.htm>) signs may be need to be installed in appropriate locations to remind drivers that other forms of transportation are in the are. In the future shared lane markings, also called “sharrows,” may be used to indicate shared space for bicyclists and motorists on streets that have low posted speed and low traffic volume. These roads typically don’t have space for traditional bike lanes. Bike lanes may be used in some on wider roadway areas, if and when possible. These treatments may be added or changed when roadways are resurfaced. If space allows, some bike lanes can be buffered with a wider (minimum 2 feet) pavement marking. We will work with the KYTC on opportunities to re-mark and reallocated space on roads ways during resurfacing jobs.

Project 4: Pedestrian Crossings

Crosswalk markings provide guidance for pedestrians who are crossing roadways by defining and delineating paths on approaches to and within signalized intersections, and on approaches to other intersections where traffic stops. Crosswalk markings also serve to alert road users of a pedestrian crossing point across roadways not controlled by highway traffic signals or STOP signs. At non-intersection locations, crosswalk markings legally establish the crosswalk.

Some location where pedestrians cross the roadway at a non-crosswalk location may warrant signage to alert motorists of this situation the proper signage for this use is the MUTCD W11-2 (<https://mutcd.fhwa.dot.gov/html/2009/part2/part2c.htm>).

Appropriate signage should also be added on KY-52 approaching town. The warning signs should be placed per AASHTO and FHWA guidance.

New Pedestrian Crosswalk and Signage Location:

- Add Pedestrians Crossing signs when approaching town from east and west on Main Street
- Add pedestrian crossing signs on West Main Street when approaching Main Street

Existing Crosswalk and Signage Projects:

- Repaint existing crosswalk at crossing boxes on Main Street and Broadway
- Repaint/stripe existing crosswalks in city limits where deemed necessary
- Replace pedestrian crossing signs with high visibility signs and flashing lights

Project 5: Create Rest Areas for Bicyclists and Pedestrians

It is recommended that bike racks should be located near businesses and other points of interest in the city. Benches should be added throughout the city where space allows, as well as at all city schools and parks. Benches will provide an option for bicyclists to park their bike and pedestrians to rest in between visits to a store, restaurants, or on their way to and from work. Benches should also be placed throughout the city to provide a place to rest while walking.

Project 6: Create a Walking Tour of Beattyville

Lee County and the City of Beattyville may have historical features with its architecture and natural assets that is appealing to people from out of town. Stakeholders should put together a Walking Tour to show all of the uniqueness of the city. This tour should include all the historical events that's happened in the community, the old and new modern architectural buildings and churches, and the museum in the city.

Project 7: Wayfinding Signage

The City of Beattyville should indicate public parking areas in the community with wayfinding signs as needed. Walking paths with smaller mileage signs could be created to show how far a pedestrian has walked along a corridor. Signs to show out of town visitors where to park would be extremely helpful.

A map that shows where all the businesses are in the city could also be created and placed at all of the area hotels for out of town visitors.

Project 8: Provide Better ADA Accessibility

While doing the walkability audit, it was noted that the sidewalks in the downtown area are not handicap accessible. The City of Beattyville should strive to promote accessibility for all with additional dedicated handicapped parking spots on Main Street, side streets, and city owned parking lots. Parking spots that have ample room for someone with a wheelchair ramp to load and unload from the vehicle should be placed throughout the city. The city shall ensure that the sidewalk ramps are not too steep for wheelchair users. Brick pavers should be avoided due to becoming trip hazards for those who walk with the assistance of a cane or walker. When handicapped ramps are not feasible

hand rails should be added along the steps of the sidewalks to assist those climbing stairs. All walking hazards such as poles, flower pots, and benches should be relocated to enhance mobility.

Project 9: Multi-use Path

Survey results suggests the need of a multi-use path along the Bypass (10' minimum width). The design and construction of a new by-pass around the city should include a multi-use path; providing connections to existing facilities (within 150'). The city will assume maintenance responsibilities.

Here are some examples of a multi-use path that can be built for the use of pedestrians in the community. The path can be a natural surface or a paved trail.



Appendix A

Pedestrian and Bicycle Survey Results

From June 24, 2022 to July 8, 2022 KRADD conducted a Pedestrian/Bicycle Survey. The survey was available online and advertised on social media. Below are the questions that were asked:

1. How much do you currently travel to work, shopping, parks, or other destinations just by walking or bicycling?

- a) All of the time
- b) A few times a month
- c) Once a month or less
- d) Never - I drive a car everywhere I go

2. Select all the following that are within 2 miles or less from your house:

- a) Work
 - b) Restaurant
 - c) Medical Facilities/ Pharmacy
 - d) Friend's/Relative's House
 - e) School
 - f) Shopping
 - g) Library
 - h) Recreation/ Gym
 - i) Church
 - j) Park
- Other:

3. What are your most frequent (3+ visits per week) destinations?

- a) Work
 - b) Restaurant
 - c) Medical Facilities/ Pharmacy
 - d) Friend's/Relative's House
 - e) School
 - f) Shopping
 - g) Library
 - h) Recreation/ Gym
 - i) Church
 - j) Park
- Other:

4. Would you consider traveling more on foot or biking to your destinations (compared to driving a car) if you had a better path?

- a) School Bus
- b) Car
- c) Bicycle/Walking
- d) N/A

5. Select all the factors that discourage you from making more trips on foot or bike?

- Traffic
- Lack of Signage
- Not Enough Sidewalks
- No Bike Lane
- Too Far From Home

___ Not Physically Able

6. Do you like to walk or bike for recreation or exercise?

- a) Walk
- b) Bike
- c) Both
- d) No

7. If Hyden had more user friendly pedestrian and bicycling would you use them more regularly (three or more times per week)?

- a) Yes (___Walk ___Bike)
- b) No

8. How do your children/grandchildren get to school most often?

- a) School Bus
- b) Car
- c) Bicycle/Walking
- d) N/A

9. Select all factors that discourage you from allowing your children/grandchildren from walking or biking to school?

- a) Traffic
- b) Lack of Signage
- c) Not Enough Sidewalks
- d) No Bike Lane/Rack
- e) Too Far From Home

10. What sidewalks are in need of repair/replacement in Hyden/Leslie County? Where should the city place more sidewalks?

11. Where do you think bike lanes are needed?

12. Additional comments:

Appendix B

Where are pedestrian facilities (sidewalks/crosswalks/signage) needed or in need of improvement? (Please include locations needed or locations in need of improvement)?

Area	Comment
Main Highways	Bypass
Main Highways	East Main Street, 52 W, Hwy-11 North and South
Main Highways	Need some out of town
Main Highways	On Bypass
Town	River Drive, a sidewalk along the river
Town	All throughout town
Town	Slabtown, Beattyville Manor to town, River Drive
1144	From Beattyville Manor apartments to town
1144	Schoolhouse hill
1144	Towards the high school
1144	Between the manor and town

Additional Comments:

Consider a mountain bike and walking trail along the Northfork

Road up to the high school has people walking all the time. It's dangerous.

The walking situation near town is horrid and dangerous for both pedestrians and autos.

The roads in Lee County are in desperate need of repair County wide. The most walked road in the County would be school house hill. It is very dangerous for people who walk on that road.

Appendix C

Walkability Audit Results

In June of 2022, the Kentucky River Health Department and Kentucky River Area Development District completed a survey to identify each street's walkability throughout the city limits of Beattyville.

The walkability audit was completed using the following questions:

Location: _____ Date: _____

A. Pedestrian Facilities (High): presence of a suitable walking surface, such as a sidewalk or path.

1 No permanent facilities; pedestrians walk in roadway or on dirt path

2

3 Continuous sidewalk on both sides of road, or completely away from roads

4

5 Sidewalk on one side of road; minor discontinuities that present no real obstacle to passage

B. Pedestrian Conflicts (High): potential for conflict with motor vehicle traffic due to driveway and loading dock crossings, speed and volume of traffic, large intersections, low pedestrian visibility.

1 High conflict potential

2

3

4

5 Low conflict potential

C. Crosswalks (High): presence and visibility of crosswalks on roads intersecting the segment.

Traffic

signals meet pedestrian needs with separate 'walk' lights that provide sufficient crossing time.

1 Crosswalks not present despite major intersections

2

3

4

5 No intersections, or crosswalks clearly marked

walking path. Does not include temporary deficiencies likely to soon be resolved (e.g. tall grass).

1 Major or frequent problems

2

3

4

D. Maintenance (Medium): cracking, buckling, overgrown vegetation, standing water, etc. on or near

walking path. Does not include temporary deficiencies likely to soon be resolved (e.g. tall grass).

1 Major or frequent problems

2

3

4

5 No problems

E. Path Size (Medium): measure of useful path width, accounting for barriers to passage along pathway.

1 No permanent facilities

2 < 3 feet wide, significant barriers

3

4

5 > 5 feet wide, barrier free

F. Buffer (Medium): space separating path from adjacent roadway.

1 No buffer from roadway

2

3

4 > 4 feet from roadway

5 Not adjacent to roadway

G. Universal Accessibility (Medium): ease of access for the mobility impaired. Look for ramps and handrails accompanying steps, curb cuts, etc.

1 Completely impassible for wheelchairs, or no permanent facilities

2 Difficult or dangerous for wheelchairs (e.g. no curb cuts)

3

4 Wheelchair accessible route available but inconvenient

5 Designed to facilitate wheelchair access

4

5 Pleasant

H. Aesthetics (Medium): includes proximity of construction zones, fences, buildings, noise pollution, quality of landscaping, and pedestrian-oriented features, such as benches and water fountains.

1 Uninviting

2

3

4

5 Pleasant

I. Shade (Low): amount of shade, accounting for different times of day.

1 No shade

2

3

4

5 Full shade

Sum of High importance (A-C): _____ x **3** = _____

Sum of Medium importance (D-H): _____ x **2** = _____

Sum of Low importance (I): _____ x **1** = _____

Total Score: _____ / 100

Observations

1. What is the most dangerous location along this segment?
2. What is the most unpleasant element of this segment?
3. What improvements would make this segment more appropriate for pedestrian use?
4. Would it be possible to design a more direct route to connect the ends of this segment?
5. Are the conditions of this segment appropriate and attractive for exercise or recreational use?

Appendix D

Sidewalk/Crosswalk Inventory Map



Red lines represent existing sidewalks. Green lines represent crosswalks. Black dashed line represents Beattyville city boundary.

Appendix E

New Sidewalk/Sidewalk Repair Maps

Below are maps showing the locations of sidewalks in the Beattyville City limits that have been identified as having trip hazards or in need of replacement. Red lines represent existing sidewalk inventory. Yellow lines represent proposed rehabilitation projects. Black lines represent proposed new

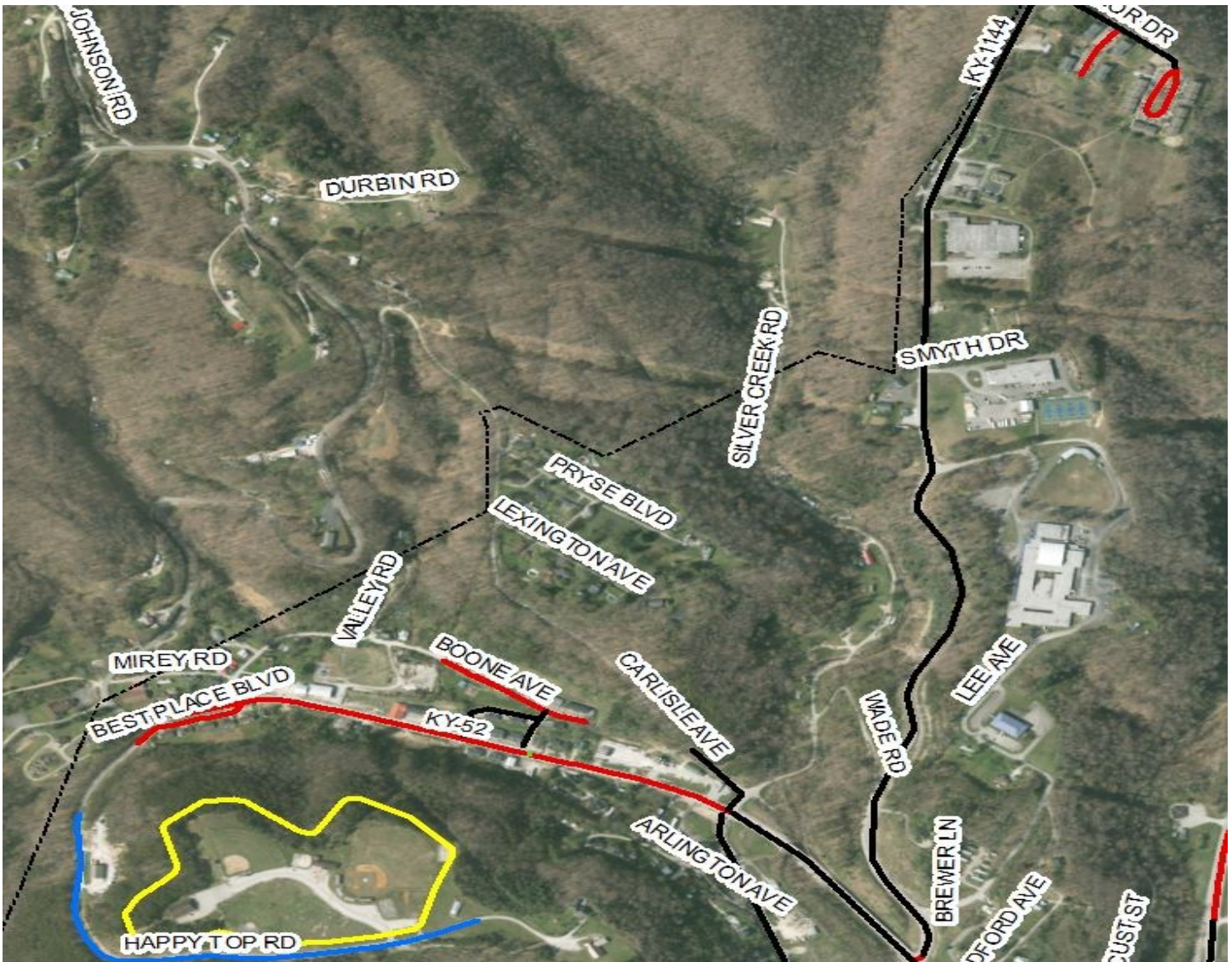


Figure1:

- New sidewalk KY-1144 from Manor Drive to KY-52
- Connect existing sidewalks on KY-52
- Add sidewalk on Carlisle Ave from walking path to KY-52
- Add sidewalk on Short Street from Boone Ave. to KY-52
- Add sidewalk on West Main Street from KY-52 to Main Street
- Rehabilitate walking track at Happy Top Park where deemed necessary

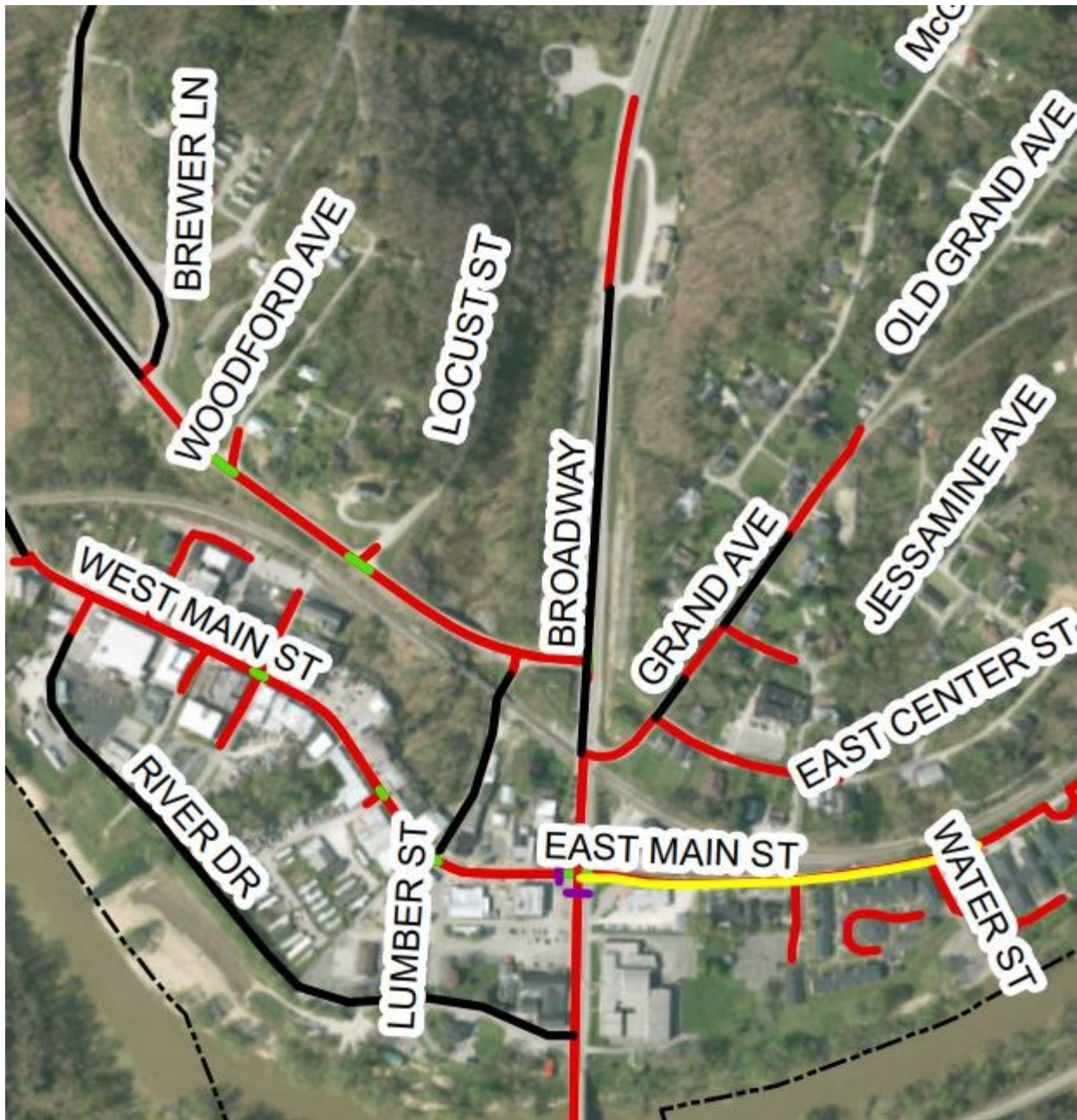


Figure 2:

- Add new sidewalk on River Drive from existing to Broadway/KY-11
- Rehabilitate sidewalk on East Main Street from Broadway to Nursing Home
- Connect existing sidewalks on Grand Ave
- Connect existing sidewalks on Broadway/KY-11
- Add new sidewalk on Lumber Street from KY-52 to Main Street

Appendix F

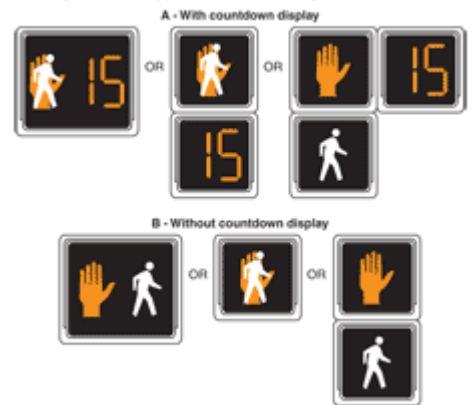
High Visible Pedestrian Crossing Needed

The pedestrian cross boxes on Broadway and Main Street should be checked for functionality. The existing markings need to be repainted, and boxed should be check for blown bulbs and lights. Streets and roads with high pedestrian traffic should have high visibility signs with flashing lights and posted warnings for operators of motor vehicles.

Here are some examples of the equipment, signage, and crosswalk paintings that can be installed.



Figure 4E-1. Typical Pedestrian Signal Indications



Appendix G

Promoting Bicycle and Walking Events in Beattyville

Throughout the year, the City of Beattyville and Lee County, along with the Lee County Cooperative Extension Office by offering a program called “Drop It Like It’s Hot”. This program offers many challenges that the participants compete in each week. Some challenges include them walking a certain number of miles or steps. These challenges are done on the participants own time. in downtown Beattyville people are encouraged to walk the Beattyville Main Street Mile. This encourages citizens to experience the completed Street Scape project and the small businesses in town. This is a group effort of the City of Beattyville, Beattyville Main Street/DBA, and the Lee County Diabetes Coalition.



Beattyville Main Street



DROP IT LIKE IT'S HOT

10 week program

At the first session we will go over what to expect throughout the program and make **goals** for ourselves. For the next 10 weeks you will have different **health** challenges for each week and you can come in at your convenience to weigh in. **Call to register 606-464-2759.**

First session: June 7th

Time: 5 PM

Location: Lee County Extension Office

For: Anyone looking to make a healthy change

Cooperative Extension Service
Agriculture and Natural Resources
Family and Consumer Sciences
4-H Youth Development
Community and Economic Development

Educational programs of Kentucky Cooperative Extension serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expression, pregnancy, marital status, genetic information, age, veteran status, or physical or mental disability. University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating.
LEXINGTON, KY 40546



Disabilities accommodated with prior notification.



Kentucky Public Health
Prevent. Promote. Protect.



The Beattyville-Lee County Bicycle/Pedestrian Plan was completed in partnership of the following entities:

Kentucky River Area Development District
941 N. Main Street
Hazard, KY 40701
Phone: 606-436-3158
www.kradd.org

City of Beattyville
28 Railroad Street
Beattyville, KY 41311
Phone: 606-464-5007
www.beattyville.org

Lee County Fiscal Court
256 Main Street #15
Beattyville, KY 41311
Phone: 606-464-4100
www.leecounty.ky.gov

Lee County Board of Education
242 Lee Avenue
Beattyville, KY 41311
Phone: 606-464-5000
<https://lee.k12.ky.us>

Lee County Health Department
45 Center Street
Beattyville, KY 41311
Phone: 606-672-2393
www.krdhd.org

Lee County Extension Services
257 Industrial Park Rd
Beattyville, KY 41311
Phone: 606-464-2759
www.lee.ca.uky.edu



Lee County Public Library
255 Industrial Park Rd
Beattyville, KY 41311
Phone; 606-672-2460
<https://leecply.booksys.net>

Cabinet for Health and Family Services
275 E. Main Street HS1EE
Frankfort, KY 40621
Phone: 502-564-9358

