EXAMPLE COUNTY

COMPREHENSIVE TRANSPORTATION PLAN















MONTH 2021

ACKNOWLEDGEMENTS

Thank you to the hundreds of residents, business owners, community leaders and governmental staff who participated in the development of this plan through meetings, events, comment forms and plan review.

SPECIAL ASSISTANCE BY

NCDOT Division 14 Municipal School Transportation Assistance (MSTA)

IN COOPERATION WITH

Macon County Town of Franklin Town of Highlands Southwestern Rural Planning Organization









PREPARED BY

Roger I. Castillo Santamaria, Project Engineer **James H. Upchurch**, Mountains Group Supervisor NCDOT Transportation Planning Division

LEAD PLANNING AGENCY

Rose Bauguess, Southwestern Rural Planning Organization

LIST OF STEERING COMMITTEE MEMBERS

Ben Laseter, Mainspring Deputy Director Cory McCall, Outdoor 76 Jack Morgan, Macon County Planning Director Jennifer Garrett, Macon County Health Dept. Joe Allen, Macon County Planning Staff Josh Ward, Highlands Town Manager Justin Setser, Franklin Town Planner Kathy Tinsley, Macon County Planning Board Kim Angel, Macon County Transit Michael Mathis, Highlands Town Planner Mitchell Bishop, NCDOT Division 14 Pete Haithcock, Macon County Airport Authority **Todd Gibbs**, Macon County Schools Tommy Gilbert, Macon County Transit Tommy Jenkins, Macon County Economic **Development Commission** Warren Cabe, Macon County Emergency Medical Services

Steve Williams, NCDOT Division 14 **Troy Wilson**, NCDOT Division 14

TABLE OF CONTENTS

Executive Summary	4
Chapter 1 - Introductions and Overview	
Purpose and Overview	
Vision	
Study Goals and Objectives	
CTP Process Summary	
State, Federal Policies and Plans	
Local Policies and Plans	9
Chapter 2 - Existing and Future Conditions	
Public Involvement Summary	
Community Demographics/Land Use Trends	
Transportation Network Summary	
Highway Analysis Summary	
Bicycle and Pedestrian Analysis Summary	
Public Transportation Analysis Summary	
Airports	
Goods Movement/Freight	
Fiscal Realism	19
Chapter 3 - CTP Project Proposals	
NCDOT Project Delivery Process	
CTP Project Proposals List	
CTP Maps	
CTP Approvals	
Unadressed Deficiencies	24

Click here to view Appendix

MONTH 2021 MONTH 2021 3

EXECUTIVE SUMMARY

In 2018, the Transportation Planning Division of the N.C. Department of Transportation (NCDOT), EXAMPLE County, its municipalities, and the Southwestern Rural Planning Organization began a Comprehensive Transportation Plan (CTP) study for EXAMPLE County.



The EXAMPLE County CTP is a "needs-based" plan that represents a community's consensus on their future transportation system to support anticipated growth and development over a 25-30-year timeframe. Modes of transportation evaluated as part of this plan included: highway, public transportation and rail, bicycle and pedestrian. The impact of other modes of travel, such as airports and ferries, play significant roles in moving people and freight in North Carolina and in the Comprehensive Transportation Plan.

The **EXAMPLE** County CTP was adopted locally and by the North Carolina Board of Transportation in 2021.

This plan does not cover routine maintenance or minor operations issues. Refer to the <u>Appendix</u> for these types of issues.

VISION

"Macon County envisions a safe and reliable multi-modal transportation network that accommodates all users and connects our people with the goods and services they need to thrive".

-Vision statement from Macon County CTP Steering Committee



GOALS

- **o** Provide a **safer** transportation system
- **Trovide a more reliable** transportation system
- **Trovide a multi-modal** transportation system
- Provide a transportation system that accommodates all users
- Provide a transportation system that connects people with destinations
- Provide a transportation system that supports economic development
- Provide a transportation system that promotes healthy communities
- Provide a transportation system that adapts to changing technologies
- Provide a transportation system that preserves the natural beauty and rural character of EXAMPLE County



STUDY APPROACH

- 1. Development of goal and objectives
- Public involvement and community understanding
- 3. Data compilation and collection
- 4. Data analysis
- **5.** Identification of multimodal transportation deficiencies and CTP project proposals
- 6. Local and NCDOT adoption

ANALYSIS AND PUBLIC INPUT

Key Types of Meetings and Public Input:

Steering committee members

1,000+
Survey
comments

120 Public

involvement

comments

Presentations to Macon County officials Total number of survey respondents

663

The 663 survey respondents roughly mirrored the census population of the county, with the exception of residents under 18.

84%

About 84 percent of people surveyed responded that intersections should be improved for easier navigation by large trucks and buses.

77%

About 77 percent of respondents showed interest in the improvement of greenways.

See <u>Chapter 2</u> for more on this topic and other aspects of existing conditions.

SELECTED PROJECT PROPOSALS

These are some of the major CTP Projects of the EXAMPLE County Comprehensive Transportation Plan. They are not listed in any priority order and more information can be found in Chapter 3 and the <u>Appendix</u>.



US 23/441 (Georgia Road) Improve the section of U.S. 441 between Prentiss Bridge Road (S.R. 1649) and Georgia to a four-lane divided boulevard. (TIP R-5734C)



US 64 (Murphy Road)

Modernize to standard two-lane facility with a climbing lane from Clay County to West Old Murphy Road (S.R. 1448).



NC 28 (Highlands Road)
Upgrade to a two-lane facility

with median with control of access improvements.

PROJECT SHEETS

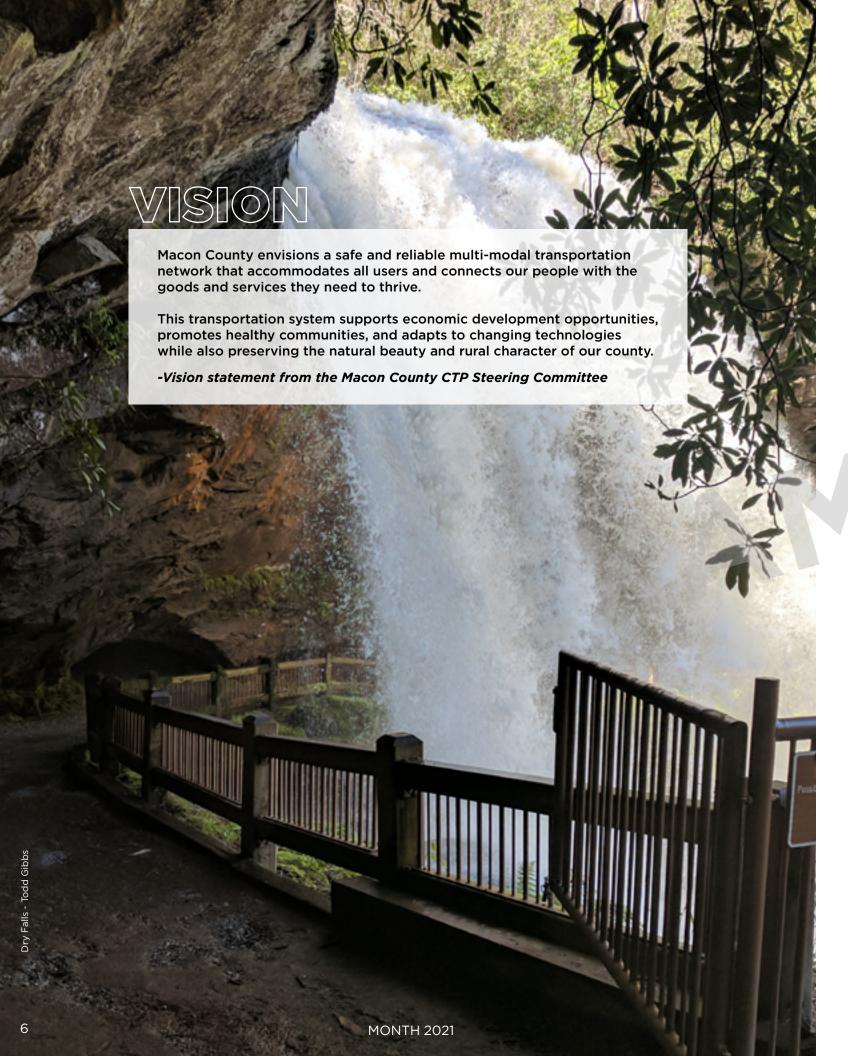
19 CTP Project Sheets

can be found in the <u>Appendix</u>. They feature individual project maps, cost estimates and other details.

APPROVALS

- ✓ Local Adoptions:
- ☑ Rural Planning Organization endorsement:
- ✓ North Carolina Board of Transportation adoption:

MONTH 2021 MONTH 2021



Chapter ONE Introductions and Overview

The Comprehensive Transportation Plan is North Carolina's multi-modal long-range transportation plan. The CTP is "needs-based" and represents a community's consensus on the future transportation system to support anticipated growth and development over a 25-30-year timeframe.

PURPOSE AND OVERVIEW

This plan is developed by a CTP steering committee comprised of NCDOT, the Southwestern Rural Planning Organization (RPO) and local planning partners.

The CTP supports the community's adopted vision and goals by integrating land use and transportation planning. This should be used by local officials to ensure that planned transportation facilities reflect the needs of the public, while minimizing the disruption to local residents, businesses and environmental resources. The CTP process is designed to provide useful information into the project development process.

VISION

The CTP vision, goals and objectives are developed as part of the public involvement process and help identify how residents in an area would like to develop the transportation system.

When starting a CTP study, officials form a steering committee of individuals who represent the various needs, issues and populations of the community. The committee develops the draft vision, goals, objectives and performance measures. These are further refined with input from citizens and then used to guide the development of the CTP.

MONTH 2021

STUDY GOALS AND OBJECTIVES



PROVIDE A SAFER TRANSPORTATION SYSTEM.

Strive to reduce crashes among all modes and promote safe driving behaviors through speed enforcement, medians and other tools that allow for safe and reliable travel.



PROVIDE A MULTI-MODAL TRANSPORTATION SYSTEM.

Support advancements of transportation services that allow people who may not own a personal vehicle to travel. These advancements include expanding greenways, constructing sidewalks to primary destinations and expanding transit operating hours.



PROVIDE A TRANSPORTATION SYSTEM THAT ACCOMMODATES ALL USERS.

Provide mobility for young and old travelers without vehicles, as well as visitors and freight providers.



PROVIDE TRANSPORTATION SYSTEM THAT CONNECTS PEOPLE WITH DESTINATIONS.

Preserve travel time reliability on primary routes while improving connections between major destinations, such as employment centers and schools.



PROVIDE A TRANSPORTATION SYSTEM THAT PROMOTES HEALTHY COMMUNITIES.

Provide transportation options that allow people to safely walk or bike to destinations and connect communities.



PROVIDE A TRANSPORTATION SYSTEM THAT ADAPTS TO CHANGING TECHNOLOGIES.

Prepare for technological advances that will impact the future of the transportation system, such as providing infrastructure compatible with electric and automated vehicles, and drones.



PROVIDE A TRANSPORTATION SYSTEM THAT PRESERVES THE NATURAL BEAUTY AND RURAL CHARACTER OF EXAMPLE COUNTY.

Acknowledge that some roads in rugged terrain may not be feasible to improve, due to impacts to the human and natural environment.

STATE AND FEDERAL POLICIES AND PLANS

This section outlines some of the important state and federal policies and plans that were considered while developing the EXAMPLE County CTP. See the <u>Appendix</u> for an outline of the CTP requirements. Please click on any item in the following list for more information:

Complete Streets

Multimodal Statewide Freight Plan

N.C. Planning Facility Types

N.C. General Statute 136-66.2

N.C. Moves 2050 Plan

Statewide Logistics Plan

Strategic Transportation Corridors
Strategic Transportation Investments

Title VI in Public Involvement

LOCAL POLICIES AND PLANS

This section outlines some of the important local policies and plans that were considered while developing the EXAMPLE County CTP. Please click on any item in the following list for more information:

CHAPTER ONE INTRODUCTIONS AND OVERVIEWS

2019 **EXAMPLE** County Comprehensive

Plan

2017 Bike Walk Franklin

2017 Southern Blue Ridge Bike Plan

THIS PLAN FEATURES:



A thorough analysis of current conditions and public feedback regarding vehicular, walking, and bicycling



A comprehensive, recommended transportation network



A list of recommendations



Supporting documentation of the recommendations

CTP PROCESS SUMMARY

The development of this plan was open and participatory, with area residents providing input through surveys, committee meetings and an online input map. The overall process and timeline are summarized in the list below:



SPRING 2019

Began analyzing existing conditions and initiating committee meetings and public outreach through the public input survey;

SUMMER 2019

Continued public outreach, reviewed existing conditions, and reviewed survey results;

FALL 2019

Looked at future conditions and recommendations of other modes from local plans;

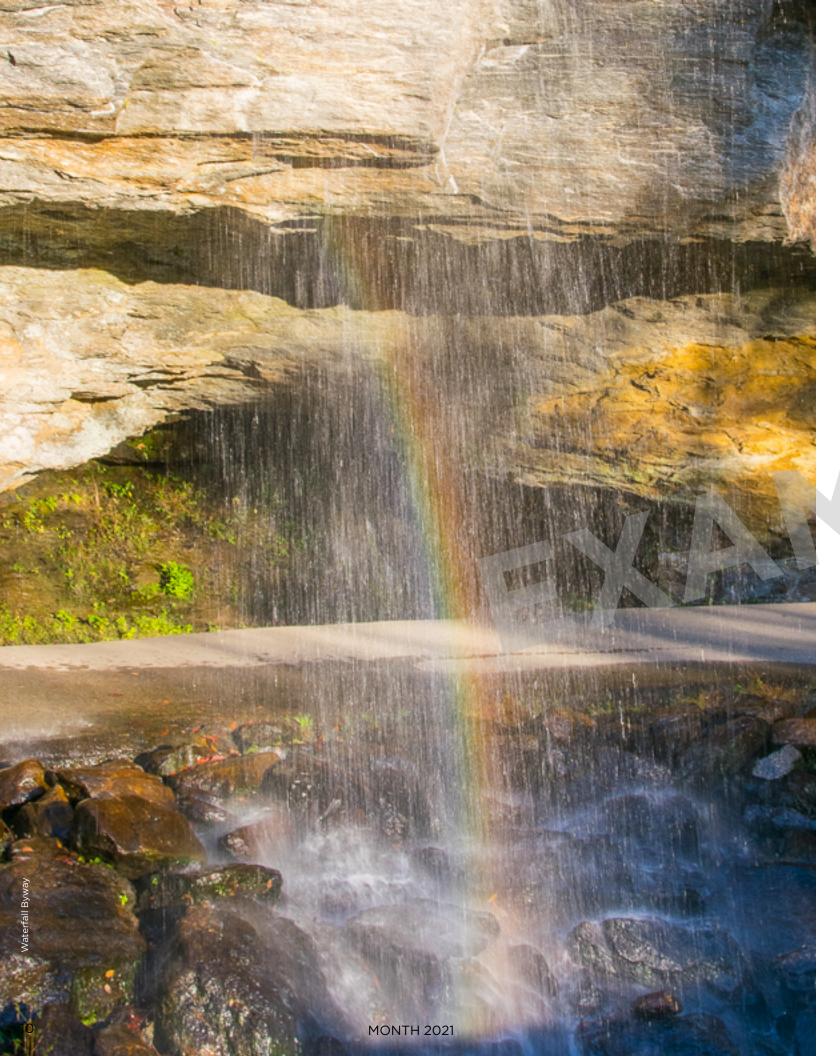
WINTER/SPRING 2020

Developed recommendations for all modes and prepared for public involvement;

SUMMER/FALL 2020

Began public Involvement for draft recommendations; Reviewed public comments

₹ TABLE OF CONTENTS



Chapter TWO

Existing and Future Conditions

This chapter summarizes the current and future conditions of the transportation system in **EXAMPLE** County.

To meet future travel demand, reliable forecasts of future travel patterns are needed to estimate congestion.

For highways, this is usually accomplished through mainly a capacity deficiency analysis (which is a measure of how the facility is operating) and a traffic crash analysis. This information, along with population growth, economic development potential, and land use trends is used to determine the potential impacts on the future transportation system.

MONTH 2021

PUBLIC INVOLVEMENT SUMMARY

Public involvement is a key element in the transportation planning process.

Public input was an overarching component of this plan, collected through multiple avenues and outlets. This plan will affect those who live, work, own a business, play and enjoy leisure activities in **EXAMPLE** County. Feedback from the public guided the creation of this plan's CTP project proposals. A full summary of public outreach can be found in the Appendix.

Throughout the course of the study, the NCDOT Transportation Planning Division cooperatively worked with the EXAMPLE County CTP Steering Committee. The committee provided information on current local plans, developed a transportation vision and goals, discussed population and employment projections, and put forth CTP project proposals.

Community Understanding

In order to gain a better understanding of the community, a Community Understanding Report (CUR) was completed by the EXAMPLE RPO and NCDOT with input from the steering committee. This report summarized information about EXAMPLE County such as population, employment, expected growth areas, schools, and varying transportation methods. For more details, see the CUR in the Community Understanding section of the <u>Appendix</u>.

TYPES OF STAKEHOLDER INVOLVEMENT USED

The project team set a goal to reach as many residents as possible and hear from diverse communities and stakeholders. Equal opportunities regardless of race, color, national origin, limited English proficiency, income, sex, age or disability were provided during the development of the CTP. For more information on the Title VI Nondiscrimination program, visit: https://www.ncdot.gov/initiatives-policies/access-for-all/nondiscrimination-program/Pages/default.aspx

The EXAMPLE County outreach included Spanish options of surveys and fliers. Surveys were available Online, through mobile and by paper. Outreach and advertisements for public involvement occurred around the county, in local shops, libraries, newspaper, and other commonly used facilities.

More information is in the Appendix.

These are the ways that were used to reach out to stakeholders and the general public:

Steering Committee

- ☑ Committee meetings
- ☑ E-mail and phone
- ✓ Surveys

General Public

- ✓ Study website
- ☑ Facebook notices
- ☑ Surveys and PowerPoints
- ☑ Coverage in local newspapers
- ✓ Plan presentations



WHAT WE HEARD



Public Transit

"Expand public transportation options: **times, routes, etc.**"



"Making **Franklin** more bike-friendly would be nice"



The intersection of **U.S. 441 and Hunnicut Lane** is a "very dangerous merge area."

"Large trucks and a high volume of traffic make (travel on) **Hwy. 64** through the gorge **between Franklin and Highlands** difficult."

U.S. 441 (Georgia Road) has "turn lane issues with traffic congestion"

U.S. 441 (Georgia Road) "Holds water, especially in outside lanes; extremely dangerous when raining"



"Need sidewalks to the Library, SCC, and on to local shopping." - Comment discussing Siler Road

"We need more sidewalks that connect our schools to the greenway"

COMMUNITY DEMOGRAPHIC / LAND USE TRENDS

In developing this plan, the timeframe used to project travel demand was from 2017 to 2045. Growth in EXAMPLE County is expected to occur along the U.S. 441 corridor and other major thoroughfares.

Year	Population
2017 2045 <i>Projected</i>	35,596 47,556

Year	Employment
2017	14,535
2045	19,974
Projected	

More information can be found in the <u>Appendix</u> about the methodology that was used to project the population and employment to 2045.

The Angel Medical Center is expected to be built near the intersection of U.S. 441 (Sylva Road) and Hunnicut Lane. The development is proposed to consist of approximately 85,000 square feet of hospital with approximately 30 beds. Approximately 139 parking spaces and two vehicular access points are planned to be provided.

Angel Medical Center to be built near the intersection of

(Sylva Road) and

Hunnicut Lane

Approximate proposed square footage of hospital

85,000
sq ft

TRANSPORTATION NETWORK SUMMARY

An important stage in the development of a CTP is the analysis of the existing transportation system and its ability to serve the area's travel demand. Roadway deficiencies may result from inadequacies in pavement widths, intersection geometry or intersection controls.

This table shows a summary of the transportation network. More detail, if applicable, can be found elsewhere in the chapter.

Primary North-South Roadways	♀ U.S. 23/441 │ ♀ N.C. 28	
Primary East-West Roadways	♀ U.S. 64	
Strategic Transportation Corridors	♥ U.S. 74 ♥ U.S. 23/441	
Public Transportation Services (Demand Response)	♥ Macon County Transit	
Fixed Route Bus	Openiated-fixed route of the Mountain Gem route around Franklin	
General Aviation Airports	♥ Macon County Airport	
Park and Ride Lots	♥ Near the intersection of Sloan Road and U.S. 64	
Park and Ride Lots	Near the intersection of U.S. 23 and Sanderstown Road	
Freight Railroads	♥ None	
Passenger Railroads	♥ None	
Primary Freight Movement	♥ Truck is primary mode by U.S. 441 and U.S. 64	
Sidewalks	♥ Most located in and near downtown area	
Bicycle Lanes	♀ None	
Statewide Bicycle Routes	♥ N.C. 2 going from Jackson County to Clay County	
Greenways	♥ Little Tennessee Greenway http://www.littletennessee.org/	
Ferries	♥ None	

HIGHWAY ANALYSIS SUMMARY

Each mode of travel covered by a comprehensive transportation plan - highway, transit and bicycle/pedestrian - has been independently analyzed for both current and forecast conditions.

Roadway System Capacity Deficiencies

CHAPTER TWO EXISTING AND FUTURE CONDITIONS

Comparing roadway demand (vehicle volumes) to roadway supply (carrying capacity) is one of the primary measures of roadway performance.

Capacity deficiencies occur when the traffic volume of the roadway approaches or exceeds the road's capacity. The analysis assumes funded 2020-2029 Transportation Improvement Program projects.

For maps on volume and capacity of roadways, see the Highway Analysis section of the <u>Appendix</u>.



Major Highway
Capacity Deficiencies
In EXAMPLE County

N.C. 28 (Highlands Road) (from E Main to Sugarfork Road) 2017 (base year)-Near capacity 2045-Over capacity

U.S. 441 BUS

(from Womack Street to Porter Street) 2017 (base year)–Over capacity 2045–Over capacity

Traffic Crash Assessment

A total of fifty-eight intersections and 168 roadway sections were identified as having a high frequency of crashes.

High Frequency Crashes



8

Intersections Roadways

The locations with the highest number of crashes were along US 441 (Georgia Road) near the interchanges with US 441 and US 64 at Georgia Road and along Main Street in downtown Franklin.

See the <u>Appendix</u> for more traffic crash assessment information.

To request a more detailed analysis for any of these locations or other intersections of concern, contact the division traffic engineer with the NCDOT. Information is available in the Appendix.

Bridge Deficiency Assessment

Forty-eight structurally deficient and functionally obsolete bridges were identified on roads evaluated as part of the CTP. Of these, two are scheduled for improvements in the 2020 STIP.

Refer to the <u>Appendix</u> for more detailed bridge deficiency information.



Intersection Assessment

Roadway intersections in EXAMPLE County were assessed using a high level of analysis, including the type of facility and current delay. The proposals are any recommended improvements that establish an "identified need" and project purpose. improvement types can include interchanges, overpasses, limited movement and all movement intersections. Refer to the <u>Appendix</u> for definitions of any of these terms.



The major intersections identified for improvement in the CTP are:

9 Clarks Chapel and Wells Grove Intersection

(See study conducted by the Municipal School Transportation Assistance (MSTA))

♥ Cowee Creek Road and N.C. 28 Intersection

Q U.S. 441 (Georgia Road) and E Main Street

BICYCLE AND PEDESTRIAN ANALYSIS SUMMARY

Bicyclists and pedestrians are a growing part of the transportation system in North Carolina. Many communities are working to improve mobility for cyclists and pedestrians.

The N.C. 2 Bike Route runs through EXAMPLE County, Cherokee County and Jackson County. Increased signage would help guide bikers. The Little Tennessee Greenway is an important facility that provides transportation options to the community such as walking and biking.

In EXAMPLE County, existing sidewalks are concentrated in the downtown areas. There are a few gaps between sidewalk segments, and other segments do not extend all the way to desired destinations. The 2017 Bike/Walk Franklin plan and 2017 Southern Blue Ridge Bike Plan were considered while developing this element of the CTP and should be reviewed for further information.

For more information on bicycle and pedestrian analysis, see the Bicycle and Pedestrian Analysis section of the Appendix.



16 MONTH 2021 MONTH 2021

PUBLIC TRANSPORTATION ANALYSIS SUMMARY



EXAMPLE County Transit has a deviated-fixed transit route in Franklin called the Mountain Gem Route. Buses arrive at designated stop every 30 minutes. Various stops along this route include: Wal-Mart, Senior Centers, the EXAMPLE County Library, Ingles and can deviate up to around a 1/4 mile. The route is a one-hour loop performed by 2 vans on weekdays from 8 am to 4 pm. Macon County transit also provides medical transportation for Medicaid and for 20-30 people to work every day. Demand response services are also available throughout the county and out of county requests need to be made in advance.

The vision for the future of **EXAMPLE** County Transit is to provide services to all transit riders and improving the efficiency of the transit system through emerging technology, seamless transportation, and expansion of services. Long range expansions to the transit system explores a possible seasonal route for the town of Highlands.

For more information on Public Transportation in Macon County, see the Multimodal Analysis section of the appendix.

Urban Transportation

(provide both urban and local transportation)

Rural Transportation

(provide both urban and local transportation)

Regional Transportation

(Operate in three areas of the state and connect multiple municipalities and counties)

Intercity Transportation (Greyhound and Amtrak)

None

Deviated-fixed route around Franklin and Demand-response services

Demand-response service available with advanced coordination

None

AIRPORTS

The EXAMPLE County Airport is a public airport that is located approximately 3 miles from downtown Franklin. It is in the lotla Valley and covers an area of 110 acres with one runway (runway 7/25) and no control tower. It operates from 8am to dusk with after-hours service available upon request. The table below shows airports near EXAMPLE County's towns.



Type of Airport | Public General Airport
Name | Macon County Airport
Location | Franklin, N.C.
Distance from Franklin | 4 miles

Type of Airport | Public General Airport
Name | Jackson County Airport
Location | Sylva, N.C.
Distance from Franklin | 20 miles

Type of Airport | Privately Owned Airport
Name | Sossamon Field-57NC
Location | Bryson City, N.C.
Distance from Franklin | 35 miles

Type of Airport | Privately Owned Airport
Name | Tusquittee Landing Airport
Location | Hayesville, N.C.
Distance from Franklin | 35 miles

Type of Airport | Public General Airport
Name | Asheville Regional Airport
Location | Asheville, N.C.
Distance from Franklin | 72 miles

GOODS MOVEMENT / FREIGHT

Major generators of goods in EXAMPLE County were identified, along with their proximity to nearby major roadways. There are no rail services in EXAMPLE County.



Based on the data, most truck freight movement used the following roadways:

QUIS. 23

♥ U.S. 74

♥ U.S. 64 **♥** N.C. 28

Most freight generators and shippers were clustered in the U.S. 441 Business area and downtown Franklin.

U.S. 23 is part of the Primary Highway Freight System (PHFS). These facilities on this system are based on freight tonnage and value, truck traffic, access factors and network connectivity.

For more information, see the Transportation Planning Analysis Data section in the appendix.

FISCAL REALISM

A financial plan can be an essential element in long-term transportation planning. The cost of projects should be considered when identifying transportation options both during the planning and prioritizing processes.

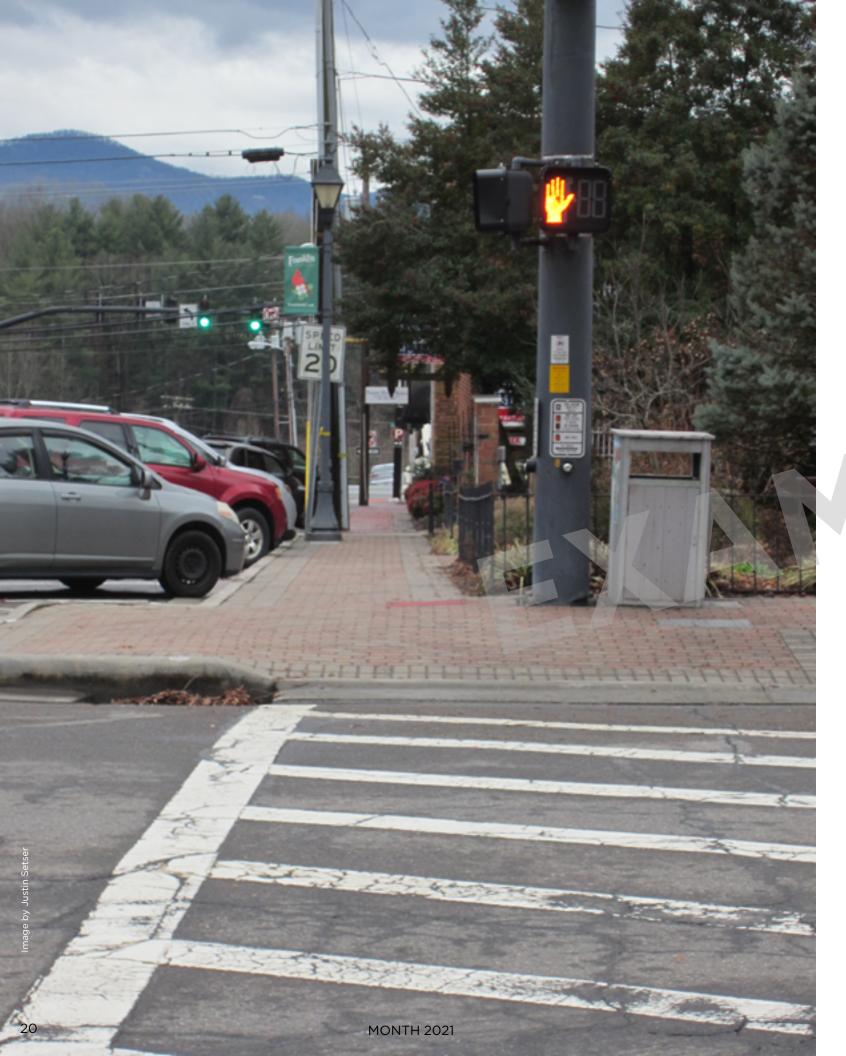
Fiscal realism in the CTP is a tool developed and can be used by rural planning organizations. This tool was not utilized for the development of this CTP.

For more information, see the Fiscal Realism section of the appendix.



CHAPTER TWO EXISTING AND FUTURE CONDITIONS

MONTH 2021 MONTH 2021



RAIL

Since 1977, the N.C. Department of Transportation's Rail Division has focused on the safe and efficient movement of people and goods on North Carolina's railroads through passenger and freight service as well as safety programs while supporting job creation and economic growth.

North Carolina is served by six intercity passenger routes (including service on the state-supported NC By Train) with stops in 16 cities and towns. Nine of those stops are along the busy, 174-mile Piedmont Corridor between Charlotte and Raleigh.



More than 70 percent of the state's population is within a 30-mile radius of a passenger station, with an additional 11 percent of North Carolina residents residing within a 30-mile radius of stops served by Amtrak's bus service.

All this means nearly 900,000 passengers boarding trains in North Carolina in 2016.

EXAMPLE County does not have Rail Services.

FERRY

With origins dating to the mid-1920s, the N.C. Department of Transportation's Ferry Division runs the second largest state-run ferry system in the United States. About 800,000 vehicles and 1.8 million passengers, each year, cross the rivers and sounds of Eastern North Carolina, making the ferry system a vital lifeline for those who live and work in the region and an economic necessity for businesses.



Ferry operations involve more than 20 ferries on seven regular routes across the Currituck and Pamlico sounds as well as the Cape Fear, Neuse and Pamlico rivers. Two routes – Hatteras-Ocracoke and Ocracoke-Cedar Island – are officially part of The Outer Banks National Scenic Byway.

The ferry system also plays a crucial role during coastal emergencies, moving thousands of people out of harm's way in advance of hurricanes. An emergency route also runs between Stumpy Point and Rodanthe, when N.C. 12 is damaged due to storms and other issues.

EXAMPLE County does not have Ferry Services.

MONTH 2021



Chapter THREE CTP Project Proposals

Each mode of travel included in the EXAMPLE County Comprehensive Transportation Plan (Highway, Bicycle, Pedestrian, and Public Transportation and Rail) have been independently analyzed for current and future conditions.











Projected 2045 needs for each mode of transportation were analyzed and project proposals developed through consideration of benefits and potential impacts through an extensive public engagement process. The results of this analysis are found in Figure 1.

NCDOT PROJECT DELIVERY PROCESS

CTP PROJECT PROPOSALS

CHAPTER THREE

Years of extensive planning, study and work occur before NCDOT begins building a roadway. The process, known as the Project Development Process, begins with the department assisting municipalities and regions develop Comprehensive Transportation Plans, which are long-range plans that identify area transportation needs and priorities.

Once a project is programmed for funding, NCDOT initiates studies and the project enters into the environmental analysis and development phase. The process includes getting feedback from the public and analyzing how a proposed road might affect people living and working in the area, as along with its environmental impact.

Once development is complete and engineers have determined the final design location, NCDOT acquires necessary property to accommodate the project and awards a construction contract ("Let"). Then, construction begins.

The typical NCDOT Project Delivery Process is shown in the figure below.

CTP PROJECT PROPOSAL LIST

The following list contains information about **EXAMPLE** County proposals. These proposals represent an agreement of an identified transportation deficiency and a potential solution.

While the CTP does recommend solutions, it may not represent the final location or cross-section associated with the improvement and may change over time. It is the responsibility of local communities to help protect transportation corridors for new location facilities.

CTP MAPS

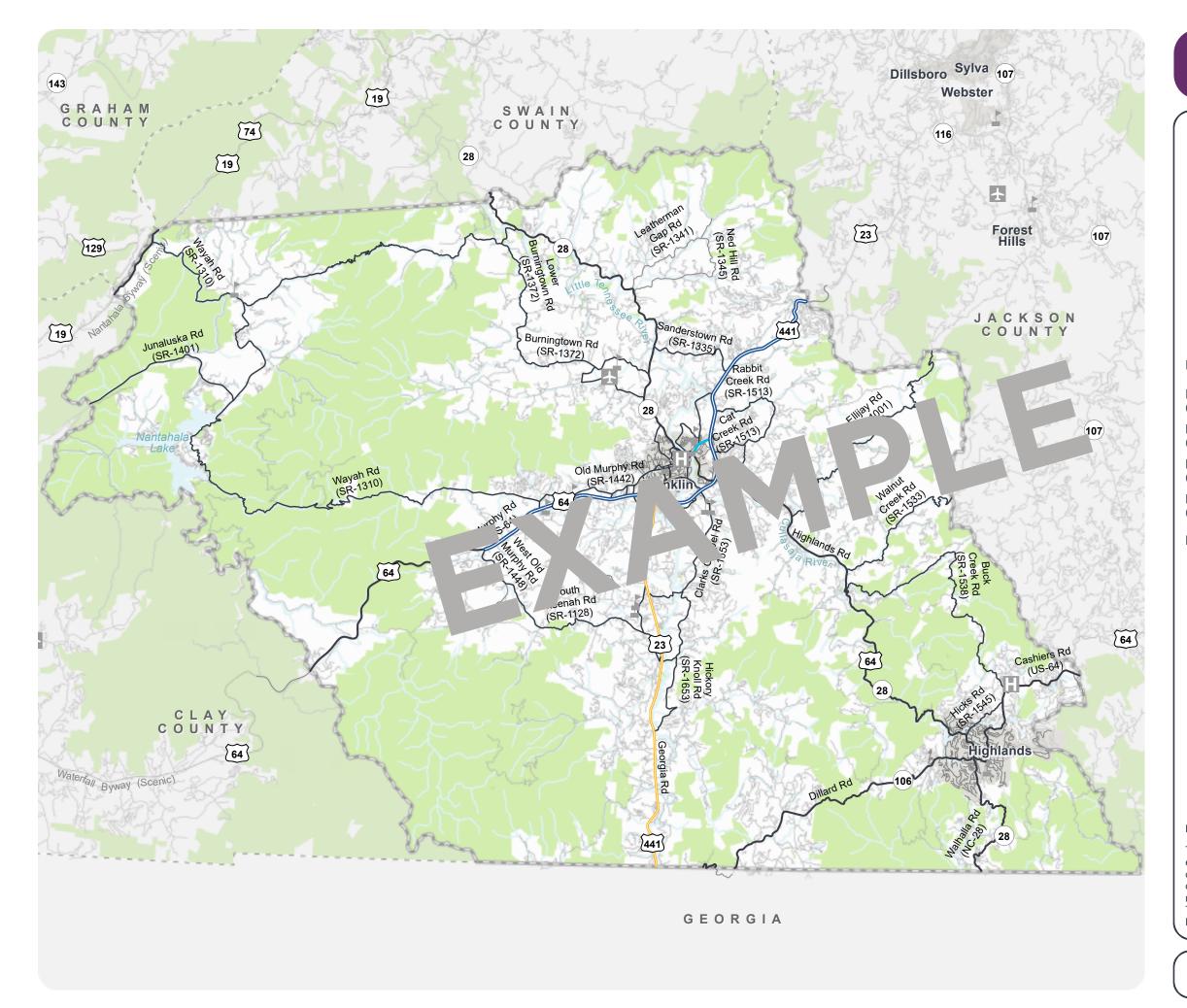


The mutually adopted EXAMPLE County <u>CTP Maps</u> are found in Figure 1. Definitions of terms on these maps can be found in the <u>Appendix</u>. The maps included are:

- 1 Facility Types Maps
- 2 Highway Maps
- **3 Public Transportation (and Rail) Maps**
- **4 Bicycle and Pedestrian Maps**

NCDOT PROJECT DELIVERY PROCESS





FACILITY TYPES

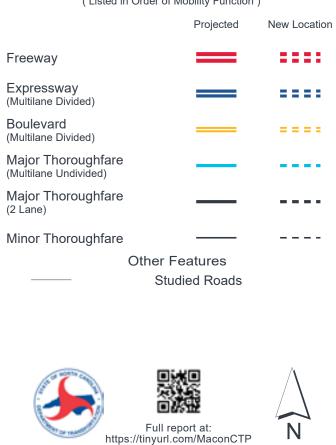
Facility classifications for mobility and control of access planning through 2045



MACON COUNTY

Comprehensive Transportation Plan

Facility Types and Control of Access (Listed in Order of Mobility Function)

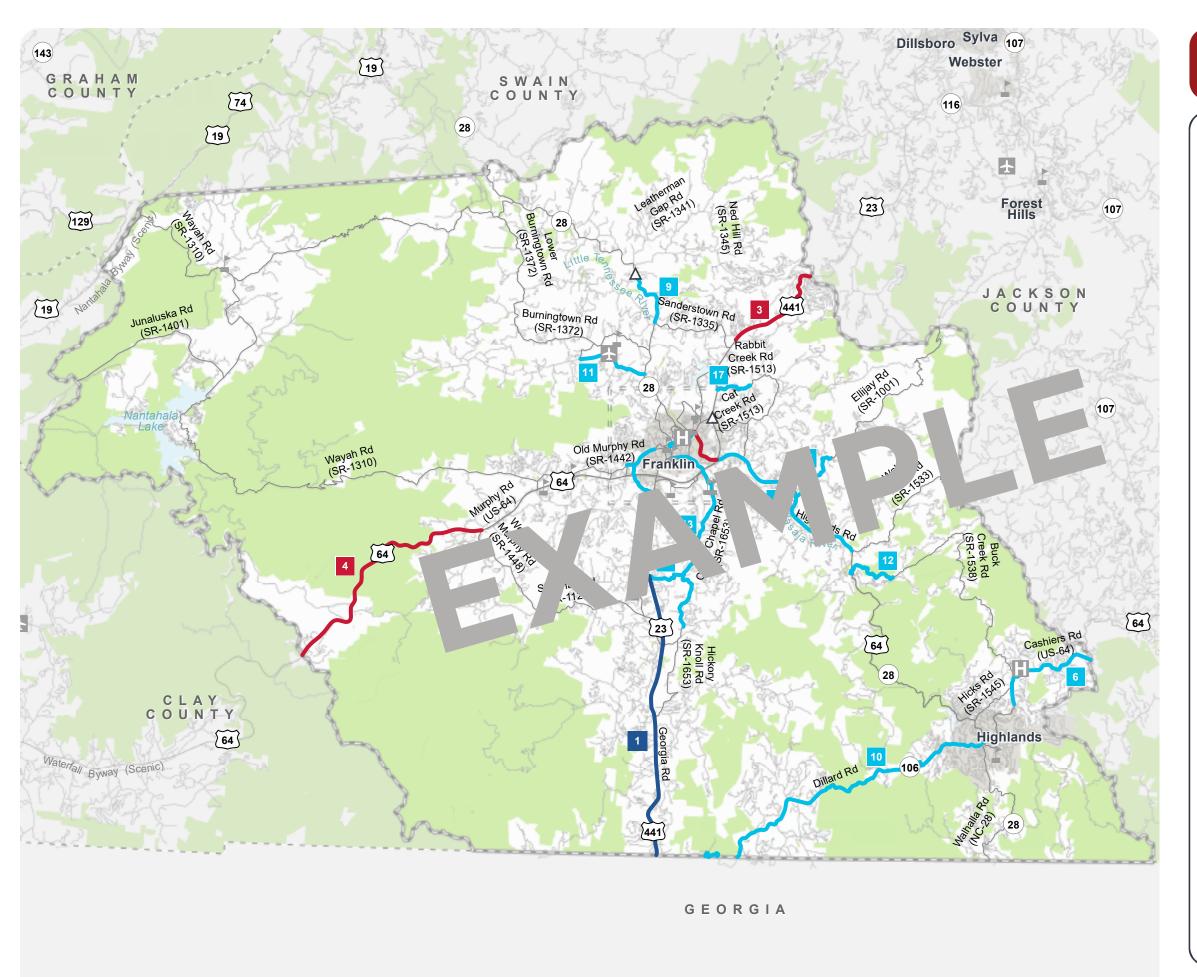


Sheet 1 of 4

Base map date: March 18, 2019

Legal Disclaimer

These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.



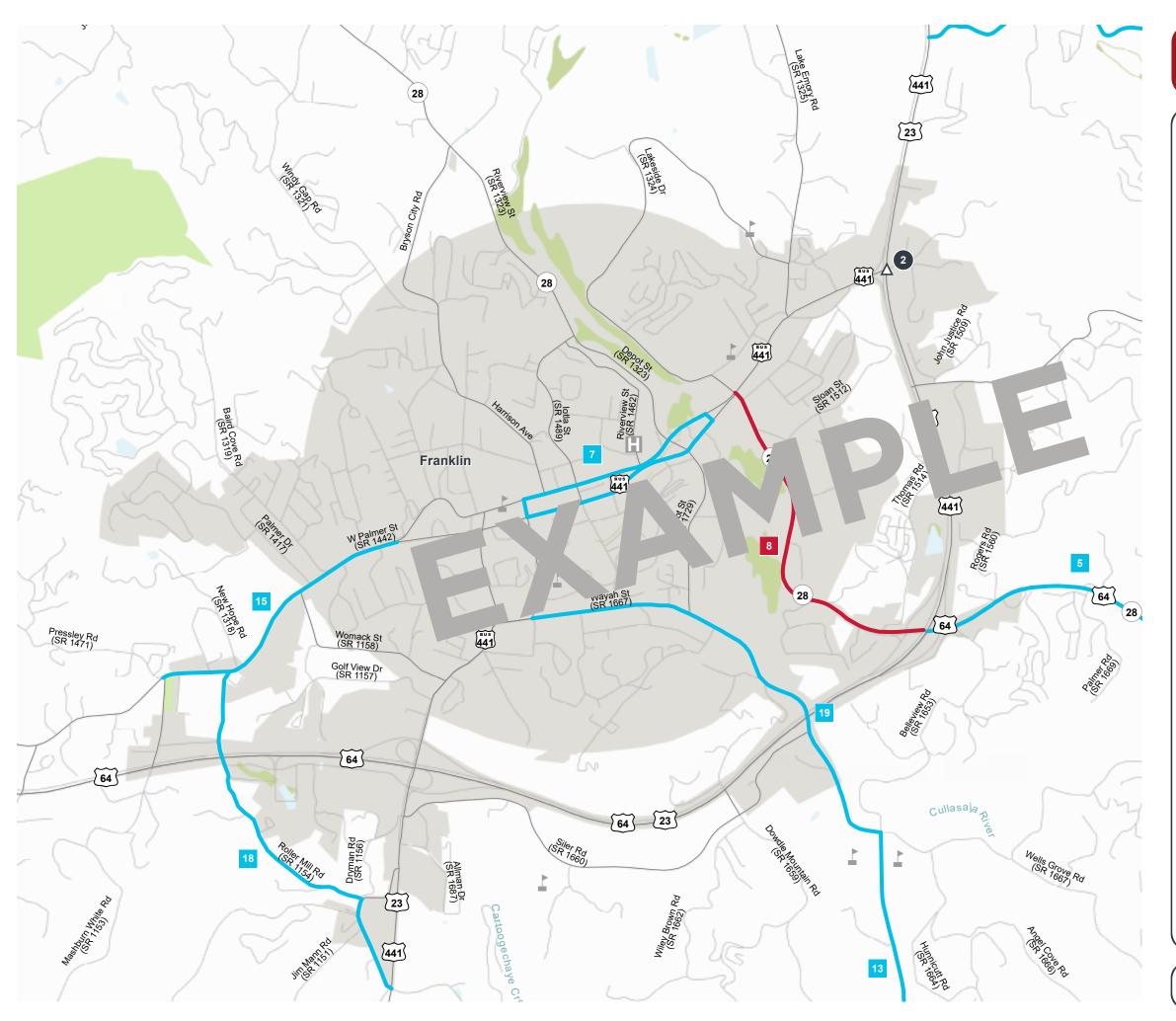
HIGHWAY RECOMMENDATIONS Proposals that address identified needs through 2045



Legal Disclaimer

These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.

WORKING COPY Plan Date: October 07, 2020



HIGHWAY RECOMMENDATIONS Proposals that address identified needs through 2045



These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.

WORKING COPY Plan Date: October 07, 2020



Macon County

Highway Project Recommendations



US 23/441, R-5734C: 🔥 🚍

From the Georgia State Line to Prentiss Bridge Road (SR 1649)

Redesign to a four-lane boulevard by replacing the center turn lane with a median, providing reduced-conflict intersections and bicycle lanes. Add a park-and-ride lot near the intersection at Coweeta Church Road (SR 1115).



US 23/441 (Sylva Road) and US 441 BUS (E Main Street) Intersection:

Improve intersection for safety, travel-time reliability, and regional mobility on this corridor.

US 23/441 (Sylva Road):

From the end of the four-lane section near Sanderstown Rd to the Jackson County Line

Convert the five-lane section to a four-lane divided expressway to improve safety and mobility on this corridor.

US 64 (Murphy Road):

From the Clay County Boundary to W Old Murphy Road (SR 1449)

Construct climbing lanes on steep grades to improve n salety and ti bicycle lanes (see the Southern Blue Ridge Bike Plan).

US 64/NC 28 (Highlands Road):

From Rogers Road to Walnut Creek Road (SR 1533)

Modernize the facility to improve mobility and safety. Construct 4-foot paved shoulders throughout, and a park-and-ride lot near the intersection at Ellijay Road (SR 1001).

US 64 (N 4th Street):

From Highlands Town Limits to the Jackson County Line

Modernize facility to improve mobility and safety, including 4-foot paved shoulders.

US 441 BUS (Main Street/E Palmer Street): *

From Porter Street to Big Bear Lane

Modernize Main Street/East Palmer Street to improve traffic flow, access to businesses, and pedestrian safety. Add curb and gutter, sidewalks and driveways improvements.









Highway Class: Congestion Access Management Modernization Other (Safety, etc.)









March 2019



NC 28 (Highlands Road):

From US 441 BUS (E Main Street) to Thomas Road

Redesign to a two-lane divided facility by replacing the center turn lane with a median, providing reduced conflict intersections and improvements to access management. Add bicycle lanes and complete existing sidewalk (see Page 52 of the 2017 BikeWalk Franklin Plan).

NC 28 (Bryson City Road) : 🖧 🚍

From Sanderstown Road (SR 1335) to Cowee Creek Road (SR 1340)

Modernize the facility to improve mobility and safety. Construct 11-foot lanes, 5-foot paved shoulders, and add a park-and-ride lot near the intersection at Sanderstown Road (SR 1335). Improve the Y intersection at Cowee Creek Road (SR 1340).

NC 106 (Dillard P

From the Georgia ate Line to US 64

Mc nize to 12-fc h 4-foot paved shoulders. Add sidewalk from Hummingbird Ln to Hig. ds Plaza.



Airpc ... ad (SR 1434):

From Olive Hill Road (SR 1387) to NC 28 (Bryson City Road) Modernize to 11-foot lanes with 4-foot paved shoulders.

Buck Creek Road (SR 1535):

From US 64 (Highlands Road) to Teague Estates Road

Modernize to 11-foot lanes with 4-foot paved shoulders.

Clarks Chapel Road (SR 1653):

From Wells Grove Road (SR 1667) to Hickory Knoll Road (SR 1643)

Modernize to 11-foot lanes with 5-foot paved shoulders.

HIGHWAY PROJECT PROPOSALS

Ellijay Road (SR 1001):

From US 64 (Highlands Road) to Grayson Higdon Road

Modernize to 11-foot lanes with 4-foot paved shoulders.







Old Murphy (SR 1442): 🔥 🏌

From Sloan Road (SR 1153) to W Main Street

Modernize to 11-foot lanes with 4-foot paved shoulders. Add a multi-use path that runs alongside this facility (see page 48 of the BikeWalk Franklin Plan).

Prentiss Bridge Road (SR 1649): 🔥

From US 441-23 (Georgia Road) to Clarks Chapel Road (SR 1653)

Modernize to 11-foot lanes with 5-foot paved shoulders.

Rabbit Creek Road (SR 1504):

From US 441 (Sylva Road) to the bridge near Ferguson Road (SR 1507)

Modernize to 11-foot lanes with 4-foot paved shoulders.

Roller Mill Road (SR 1154) /Belden Circle (SR 1152): 6 1

From Belden Circle (SR 1152) to Old Murphy Road (SR 1442)

Modernize to 11-foot lanes with 5-foot paved shoulders. Add sidewalk along this facility.

Wells Grove (SR 1667): 🌴

From Depot Street (SR 1659) to Clarks Chapel Road (SR 1653)

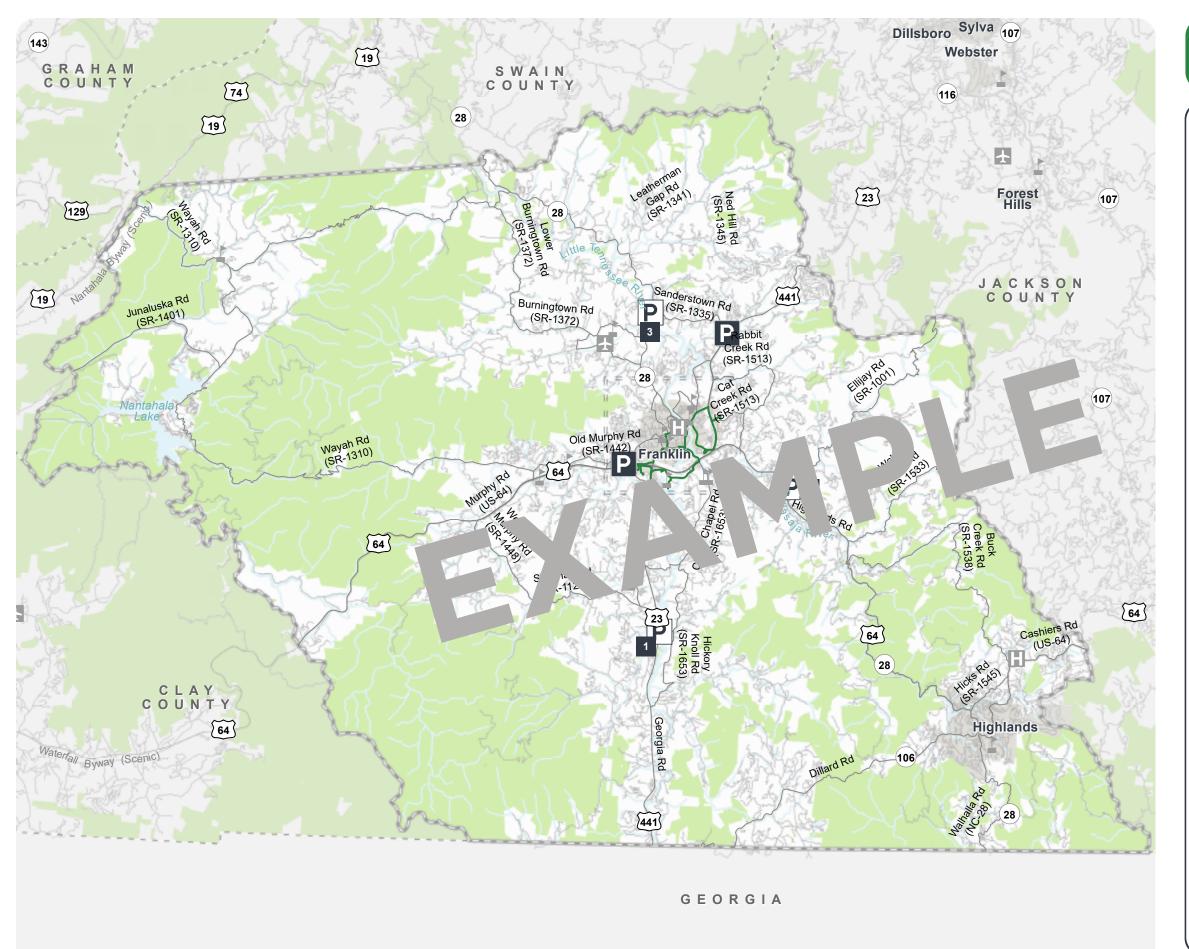
Modernize to 12-foot lanes and 5-foot paved shoulders where n improv .ಎುತ). Extend the hing side Dowdle Mountain Rd (SR 1659) and Clarks Chapel Rd Old Phillips Bridge Rd to Clarks Chapel Rd (SR 1653).











PUBLIC TRANSPORTATION RECOMMENDATIONS

Proposals that address identified needs through 2045



MACON COUNTY

Comprehensive Transportation Plan

Public Transportation and Rail Features

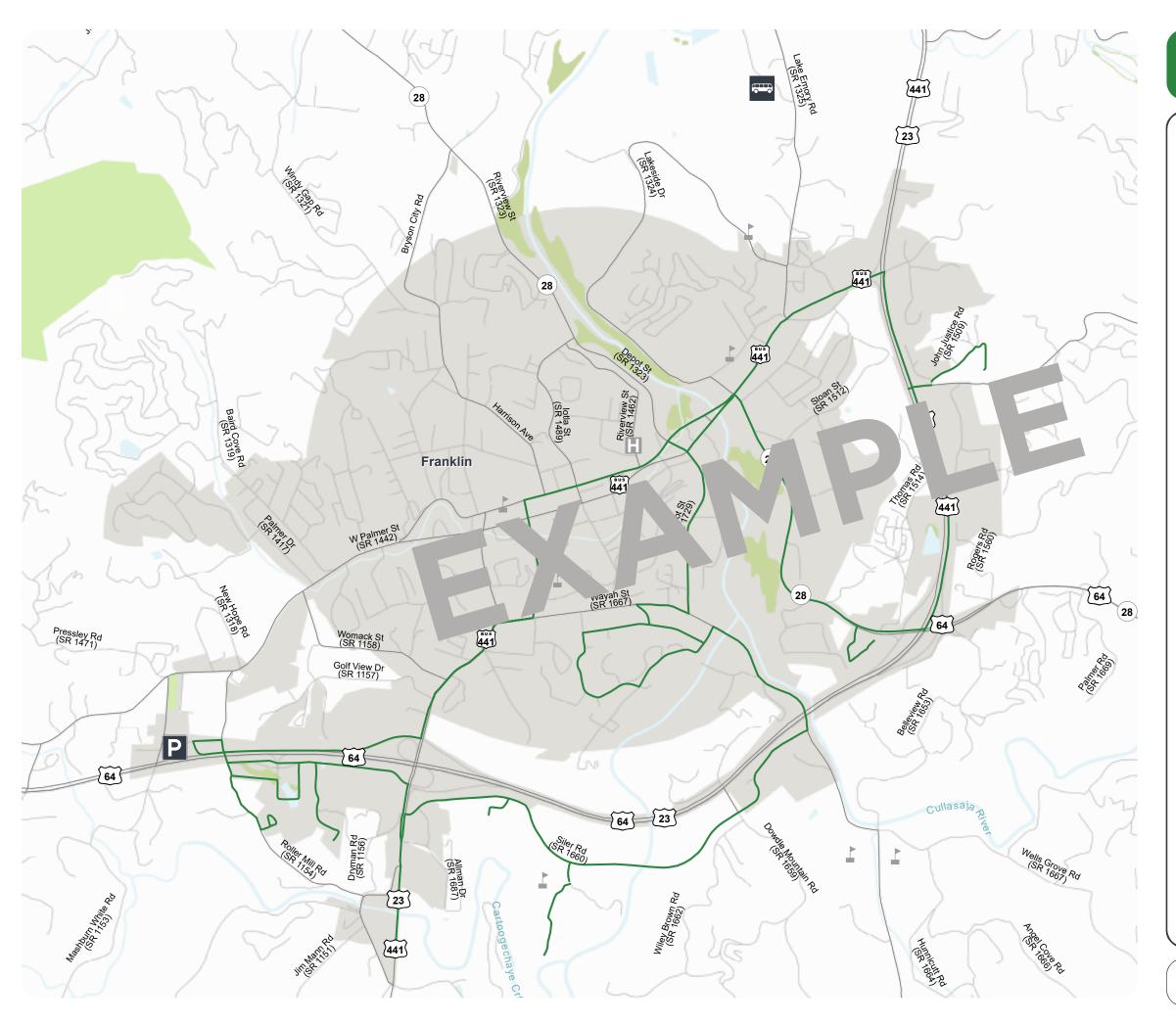


Base map date: March 18, 2019

Legal Disclaimer

These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.

WORKING COPY Plan Date: October 28, 2020



PUBLIC TRANSPORTATION RECOMMENDATIONS

Proposals that address identified needs through 2045



MACON COUNTY TOWN OF FRANKLIN INSET

Comprehensive Transportation Plan Public Transportation and Rail Features

Proposal ID# Existing Proposed **Urban Fixed Bus Corridors** Regional Bus Corridors Rural Fixed Bus Corridors Fixed Guideway Amtrak / Freight Route **Current Railroad** Transit Facility • P Park and Ride Lot 萬 **Amtrak Station --**-... Intermodal Terminal

5



Studied Roads

Full report at: https://tinyurl.com/MaconCTP

N 0.85

0.425 Sheet 3A of 4

Mile:

INSET A
Base map date: March 18, 2019

Legal Disclaimer

These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.



Macon County

Public Transportation Project Recommendations



US 23/441, R-5734C:

From the Georgia State Line to Prentiss Bridge Road (SR 1649)

Redesign to a four-lane boulevard by replacing the center turn lane with a median, providing reduced-conflict intersections and bicycle lanes. Add a park-and-ride lot near the intersection at Coweeta Church Road (SR 1115).



US 64/NC 28 (Highlands Road):

From Rogers Road to Walnut Creek Road (SR 1533)

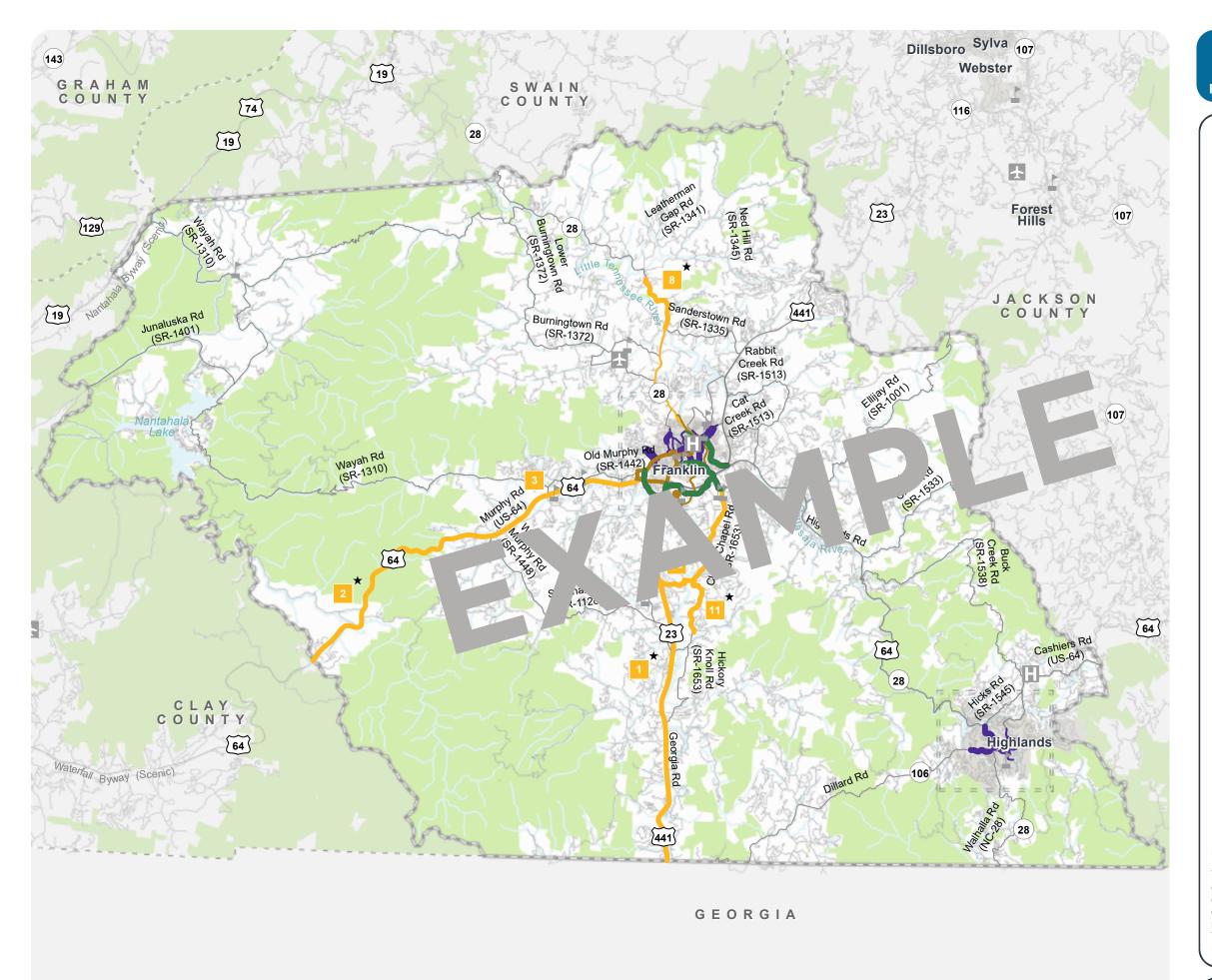
Modernize the facility to improve mobility and safety. Construct 4-foot paved shoulders throughout, and a park-and-ride lot near the intersection at Ellijay Road (SR 1001).

NC 28 (Bryson City Road):

From Sanderstown Road (SR 1335) to Cowee Creek Road (SR 1340)

Modernize the facility to improve mobility and safety. Construct 11-foot lanes, 5-foot paved shoulders, and add a park-and-ride lot near the intersection at Sanderstown Road (SR 1335). Improve the Y intersection at Cowee Creek Road (SR 1340).





BICYCLE / PEDESTRIAN RECOMMENDATIONS Proposals that address identified needs through 2045



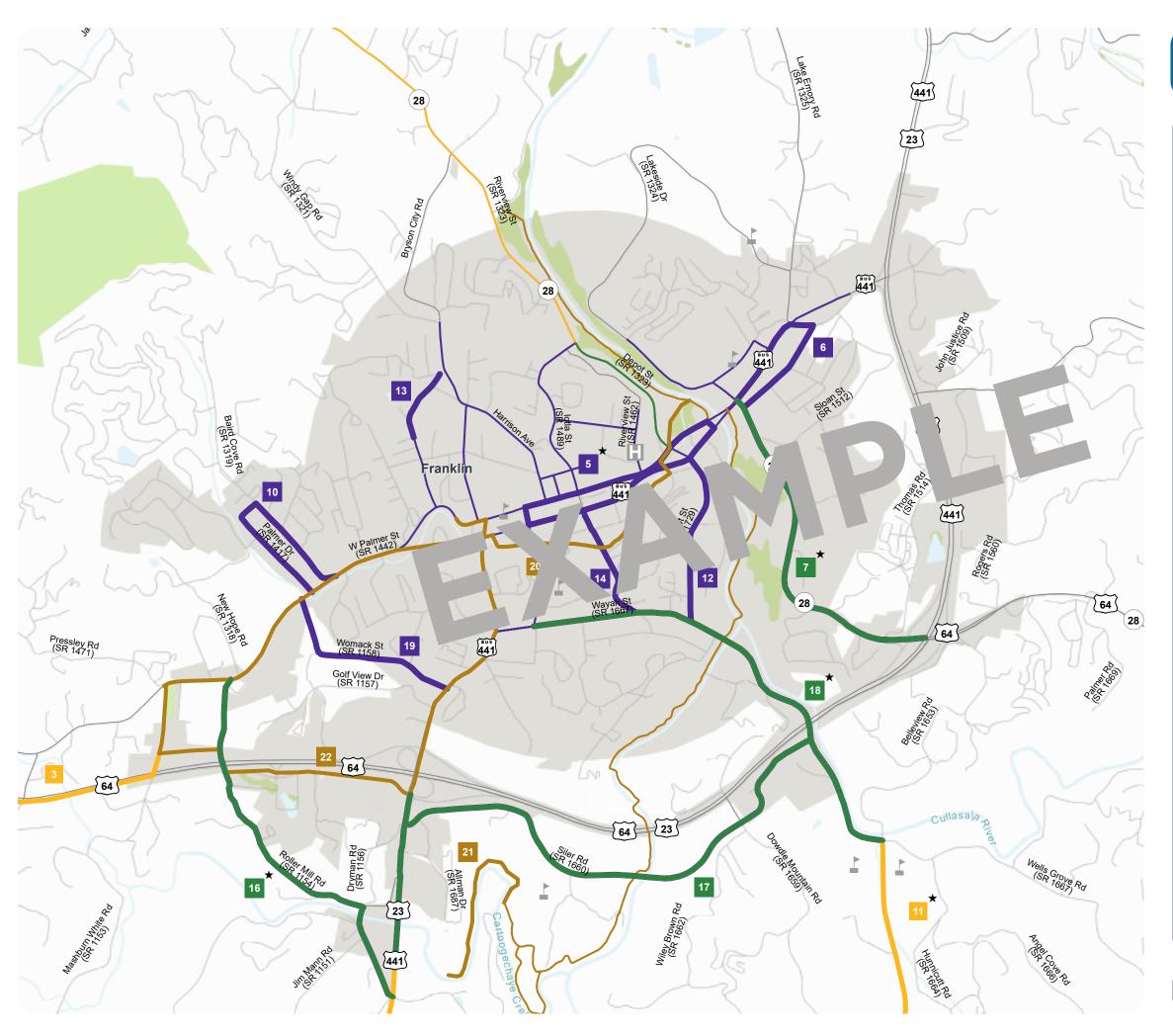


Base map date: March 18, 2019

Studied Roads

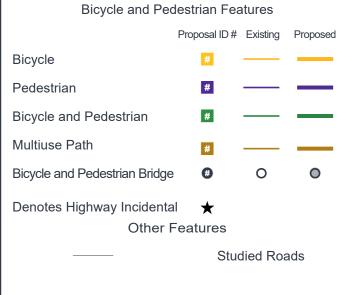
Legal Disclaimer

These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.



BICYCLE / PEDESTRIAN RECOMMENDATIONS Proposals that address identified needs through 2045



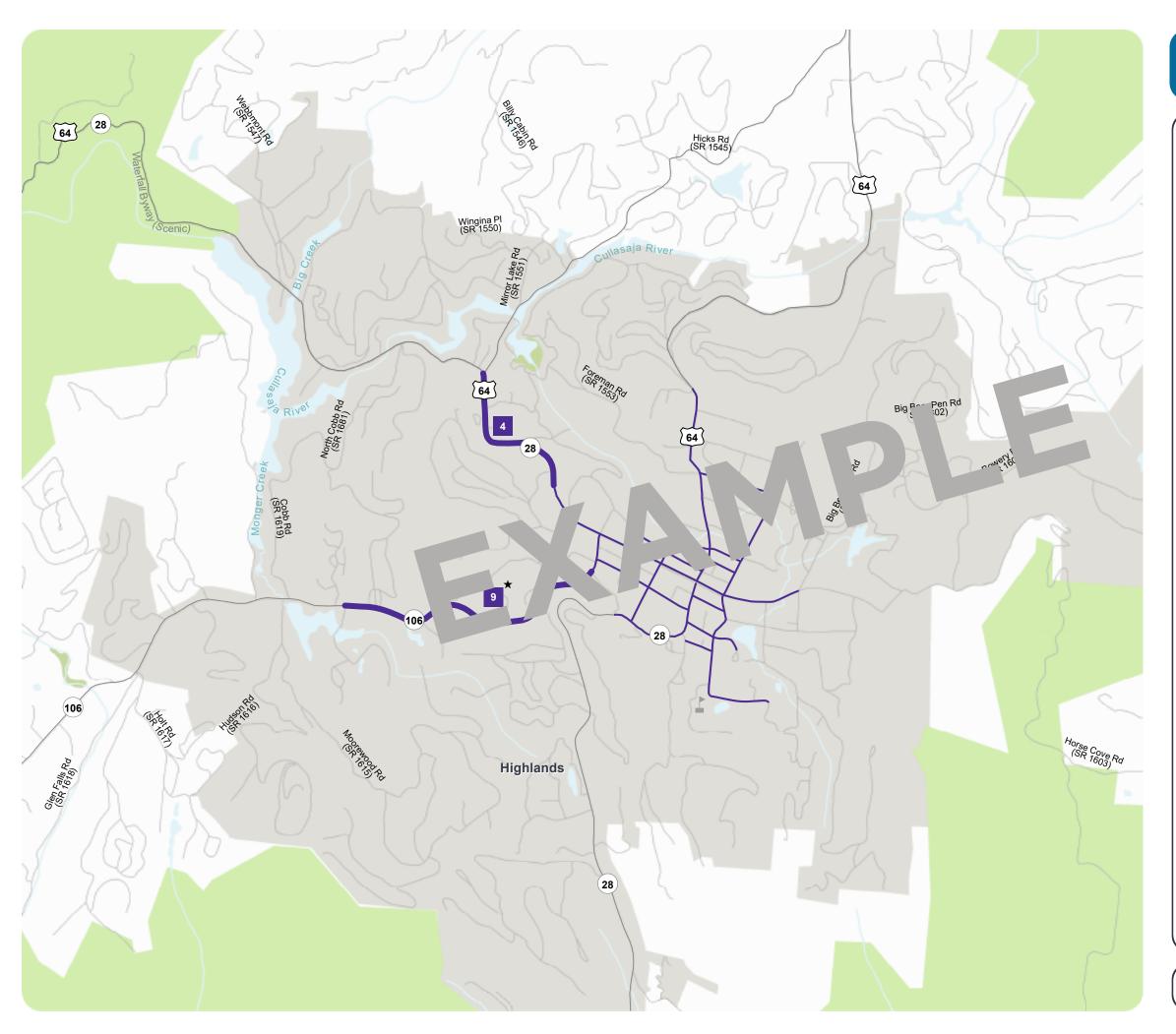




Base map date: March 18, 2019

Legal Disclaimer

These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.



BICYCLE / PEDESTRIAN RECOMMENDATIONS Proposals that address identified needs through 2045



Proposal ID# Existing Proposed Bicycle Pedestrian Bicycle and Pedestrian Multiuse Path Bicycle and Pedestrian Bridge

Denotes Highway Incidental Other Features

Studied Roads



Sheet 4 of 4

Base map date: March 18, 2019

Legal Disclaimer

These concepts will need additional analysis to meet state and federal environmental regulations, to determine final locations and designs, and to be funded for implementation. Local zoning or subdivision ordinances may require the dedication of right of way based on the concepts shown on the Comprehensive Transportation Plan and local collector street plans, based on N.C.G.S. § 136-66.2 and § 136-66.10.

Macon County Bicycle and Pedestrian Project Recommendations



★ US 23/441, R-5734C:

From the Georgia State Line to Prentiss Bridge Road (SR 1649)

Redesign to a four-lane boulevard by replacing the center turn lane with a median, providing reduced-conflict intersections and bicycle lanes. Add a park-and-ride lot near the intersection at Coweeta Church Road (SR 1115).

US 64 (Murphy Road):

From the Clay County Boundary to W Old Murphy Road (SR 1448)

Construct climbing lanes on steep grades to improve mobility, safety and travel time reliability. Add bicycle lanes (see the Southern Blue Ridge Bike Plan).

US 64/Sloan Road:

From W Old Murphy Road (SR 1448) to Carolina Drive

Add 5-foot paved shoulder improvements from W Old Murphy Road (SR 1448) to Sloan Rd (SR 1175). Add 5-foot paved shoulder improvements on Sloan Road (SR 1448) to Carolina Drive. See the Southern Blue Ridge Bike Plan.

US 64/NC 28:

From Mirror Lake Road (SR 1551) to Will Henry Stever. 3ridae

side of Hir Inds Add sidewalk to continue existing sidewalk to connect t. area.

US 441 BUS (Main Street/E Palmer Street):

From Porter Street to Big Bear Lane

Modernize Main Street/East Palmer Street to improve traffic flow, access to businesses, and pedestrian safety. Add curb and gutter, sidewalks and driveways improvements.

US 441 BUS (E Main St)/ 1st Street/Old Cat Creek Road:

From Lakeside Drive (SR 1324) to Lake Emory Road (SR 1325)

Add an East Franklin sidewalk loop connecting nearby neighborhoods with the downtown area. See page 60 of the 2017 BikeWalk Franklin Plan.

★ Denotes Highway Incidental















★ NC 28 (Highlands Road):

From US 441 BUS (E Main Street) to Thomas Road

Redesign to a two-lane divided facility by replacing the center turn lane with a median, providing reduced conflict intersections and improvements to access management. Add bicycle lanes and complete existing sidewalk (see Page 52 of the 2017 BikeWalk Franklin Plan).

★ NC 28 (Bryson City Road):

From Sanderstown Road (SR 1335) to Cowee Creek Road (SR 1340)

Modernize the facility to improve mobility and safety. Construct 11-foot lanes, 5-foot paved shoulders, and add a park-and-ride lot near the intersection at Sanderstown Road (SR 1335). Improve the Y intersection at Cowee Creek Road (SR 1340).

NC 106 (Dillard Road):

to US 64 From the Georgia Stori

Hands Plaza.



Road (SR 1319)/Palmer Drive (SR 1417):

From .. Palmer Street (SR 1442) to W Palmer Street (SR 1442)

Add sidewalk connecting a town neighborhood with the downtown area. See the 2017 Bike/Walk Franklin Plan

Clarks Chapel Road (SR 1653):

From Wells Grove Road (SR 1667) to Hickory Knoll Road (SR 1643)

Modernize to 11-foot lanes with 5-foot paved shoulders.

Depot Street (SR 1729):

From Wells Grove Road (SR 1667) to US 441 BUS (E Main Street)

Improve existing sidewalk to accomodate pedestrians. See the 2017 BikeWalk Franklin Plan.

Green Street:

From Wild Mint Road to Harrison Avenue

Add sidewalk to connect existing sidewalk from Green Street to Harrison Avenue. This is a Non-NCDOT road. See the 2017 BikeWalk Franklin Plan.

★ Denotes Highway Incidental













Phillips Street (SR 1718):

From US 441 BUS (E Palmer Street) to Wayah Street (SR 1667)

Add sidewalk to improve connections to the Franklin High School. See page 78 of the 2017 BikeWalk Franklin Plan.

★ Prentiss Bridge Road (SR 1649):

From US 441-23 (Georgia Road) to Clarks Chapel Road (SR 1653)

Modernize to 11-foot lanes with 5-foot paved shoulders.

Roller Mill Road (SR 1154) /Belden Circle (SR 1152):

From Belden Circle (SR 1152) to Old Murphy Road (SR 1442)

Modernize to 11-foot lanes with 5-foot paved shoulders. Add sidewalk along this facility.

Siler Road (SR 1660)/Dowdle Mountain Road (SR 1659):

From US 23/441 Georgia Road to Wells Grove Road (SR 1667)

Add sidewalk and bike accomodations for pedestrians and cyclists traveling between the public library, apartments, and business centers. (See the BikeWalk Franklin Plan)

Wells Grove (SR 1667):

From Depot Street (SR 1659) to Clarks Chapel Road (

Modernize to 12-foot lanes and 5-foot paved shoulders ere for ible. Inte impro at Dowdle Mountain Rd (SR 1659) and Clarks Chapel R 55). Exter hele, guaewalk from Old Phillips Bridge Rd to Clarks Chapel Rd (SR 165)

Womack Street (SR 1158):

From Old Murphy Road (SR 1442) to US 441 BUS (Georgia Road)

Add sidewalk to improve connections throughout Franklin. See the 2017 BikeWalk Franklin Plan.



CTP APPROVALS

Based on state statute, comprehensive transportation plans must be adopted locally and by the North Carolina Board of Transportation.

Area	Dates	Type
Town of Franklin		Adoption
Town of Highlands		Adoption
Macon County		Adoption
Southwestern RPO		Endorsement
N.C. Board of Transportation		Adoption

Digital copies of the adoption and endorsement resolutions are available in the Appendix.

UNADDRESSED DEFICIENCIES

Occasionally, a transportation plan cannot satisfy the many varied needs of a community. Some proposals may be outside the scope of the plan, an identified transportation deficiency without a recommendation, or some other reason.

While developing the plan, some initiatives were identified that are not included in the plan. They are:

- **⇒ U.S. 64 from Franklin to Highlands**
- ⇒ Wayah Road, Walnut Creek Road, Tellico Road, and Otter Creek Road
- **⇒ Hickory Knoll Road and Tessentee Road**
- **⇒** Downtown Franklin

None of these proposals were included in the EXAMPLE County CTP. More detail can be found in the <u>Appendix</u>.

DISCLAIMER

This report documents the work of the EXAMPLE County Comprehensive Transportation Plan study.

The N.C. Department of Transportation and any of the adopting/endorsing organizations of EXAMPLE County Comprehensive Transportation Plan:

- Shall not be held liable for any errors in the data in this report or any accompanying documentation. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data.
- 2 Do not represent, warrant or guarantee that the guidance in this report will lead to any particular outcome or result.
- Will not be held liable in respect to any losses, including without limitation: loss of profits or income, revenue, use, production, anticipated savings, business, contracts, commercial opportunities, or goodwill based on the information in this report or other supporting documentation.

Primary sources from which this data was compiled must be consulted for verification of information contained in this report.

26 MONTH 2021 2

EXAMPLE

