

FEASIBILITY STUDY

Hope Mills
Camden Road (SR 1103)
From Proposed Fayetteville Outer Loop
To Hope Mills Road (NC 59)
Cumberland County
U-3422

Prepared by
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From Proposed Fayetteville Outer Loop
To Hope Mills Road (NC 59)
In Hope Mills, Cumberland County
U-3422

I. GENERAL DESCRIPTION

This preliminary study describes the proposed widening of Camden Road (SR 1103) from the proposed Fayetteville Outer Loop (U-2519) to Hope Mills Road (NC 59) in Cumberland County. The project location is shown on Figure 1. The proposed cross-section is a five-lane curb and gutter section for the entire project length of 2.2 miles (3.5 km). The required right-of-way width is 100 feet (30.5 m).

No residential or business relocations are anticipated due to this project.

The total cost including construction and right-of-way is estimated to be \$7,200,000.

This study is the initial step in the planning and design process for this project and is not the product of exhaustive environmental or design investigations. The purpose of this study is to describe the needs, recommend a treatment including costs, and identify potential problem areas that require consideration in the planning and design phases.

II. NEED FOR PROJECT

The purpose of this project is to increase the traffic carrying capacity and safety of Camden Road (SR 1003) in Cumberland County. The project was requested by the Transportation Advisory Committee of the Fayetteville Urban Area and is supported by both the City of Fayetteville and the Town of Hope Mills. This project is in an area of rapid growth. This growth will be accelerated by the proposed Fayetteville Outer Loop (Project U-2519) and the proposed widening of Camden Road east of NC 59 (Project U-2810).

Camden Road is classified as a Urban Minor Arterial in the North Carolina Statewide Functional Classification System, and is a Major Thoroughfare on the Fayetteville Urban Area Thoroughfare Plan. Land use along the project corridor is mostly single family residential. At the Rockfish Road intersection there are two convenience stores. At the NC 59 intersection there is a large neighborhood shopping center, a fast-food restaurant, and a convenience store.

Existing Camden Road is a two-way, two-lane road with grass shoulders. The NC 59 intersection and the Rockfish Road intersection are controlled with traffic signals.

Traffic volume estimates for Camden Road for the years 1995 and 2020 are 12,200 vehicles per day (vpd) and 23,100 vpd respectively. The Level of Service (LOS) without the proposed improvements is estimated to be Level D in 1995 and Level F in 2020. With the proposed improvements the LOS is estimated to be LOS B in 1995 and LOS C in 2020.

During the three year period beginning April 1, 1992 and ending March 31, 1995, there were 143 accidents reported on Camden Road within the project limits. This resulted in a total accident rate of 378 accidents per 100 million vehicle miles (ACC/100MVM). This compares with the statewide average of 348 ACC/100MVM for all urban Secondary routes, in North Carolina, for 1994.

There were 2 fatal accidents reported, and 64 accidents resulted in 106 injured persons. The most prevalent type accidents were Rear-End (41%), Left-Turn (25%), and Ran Off Road (13%). The proposed wider cross-section with a center turn lane will reduce the potential for these type accidents.

III. RECOMMENDATIONS

It is recommended to widen Camden Road from the proposed Fayetteville Outer Loop to Hope Mills Road, a distance of approximately 2.2 miles (3.5 km). The proposed cross-section is a five-lane curb and gutter section, 64 feet (19.5 m) wide from face-to-face of curbs, consisting of 2 travel lanes in each direction of travel, and a two-way center turn lane. Also, berms, 8 feet (2.4 m) wide, will be constructed outside the curbs on each side.

The required right-of-way width is 100 feet (30.5 m) and should be acquired from both sides of existing Camden Road.

The traffic signals at the NC 59 intersection and the Rock Fish Road intersection will require revisions.

At the west project terminal, the proposed cross-section will tie into the cross-section to be constructed on Camden Road under project U-2519 (Fayetteville Outer Loop).

At the east project terminal the 5-lane cross-section proposed will match the cross-section proposed for Camden Road east of NC 59 under project U-2810.

No residential or business relocations are anticipated due to this project.

The total cost including construction and right-of-way

is estimated to be \$7,200,000 as follows:

Construction.....	\$6,000,000
Right-of-Way.....	<u>1,200,000</u>
Total Cost.....	\$7,200,000

IV. OTHER COMMENTS

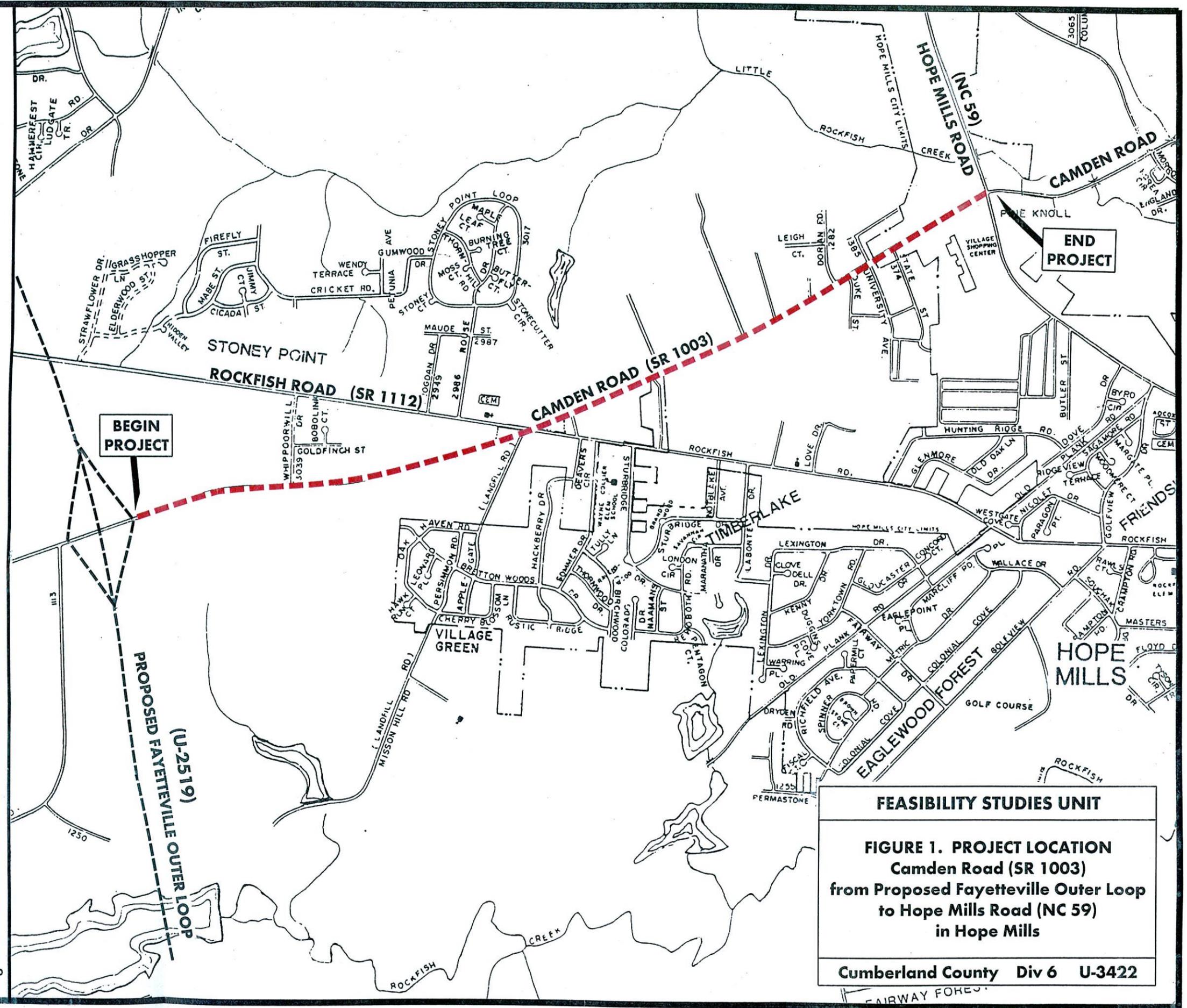
An environmental screening was not conducted for this study. No wetlands, historic properties, or endangered species are anticipated.

No need for special bicycle accommodation was identified for this project.

Landfill Road, shown on Figure 1 near the Camden Road - Rockfish Road intersection, is signed Applegate Road. This soil road is essentially a driveway to one residence and ends approximately 300 feet (91.5 m) south of Camden Road.



Scale in Tenths of a Mile



FEASIBILITY STUDIES UNIT

FIGURE 1. PROJECT LOCATION
 Camden Road (SR 1003)
 from Proposed Fayetteville Outer Loop
 to Hope Mills Road (NC 59)
 in Hope Mills

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