

FEASIBILITY STUDY

Siler City

Siler City Inner Loop
From South Chatham Street (SR 2113)
To US 64 (East Eleventh Street)
Chatham County

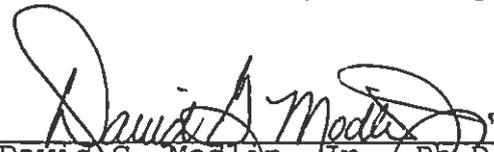
Division 8

R-3617

Prepared by
Program Development Branch
Division of Highways
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I. GENERAL DESCRIPTION

This preliminary study describes the proposed Siler City Inner Loop from South Chatham Street (SR 2113) to US 64 (E. Eleventh Street) in Siler City. Between South Chatham Street and Second Avenue the project alignment follows College Street, a 2-lane, paved, shoulder section. The remainder of the project will be built on new location. North of Alston Bridge Road the project alignment will follow an existing, 60-foot (18.3-m) wide easement, the proposed Pony Farm Road, and Wayne Drive (a private, unimproved road). The location is shown on Figure 1. The total project length is approximately 2.3 miles (3.7 km). The proposed cross-section, for the first 0.4 mile (0.6 km) is a 2-lane, curb-and-gutter section, 28 feet (8.5 m) wide from face-to-face of curbs with 10-foot (3.0-m) berms. The cross-section for the remainder of the project is a 2-lane, rural shoulder section with a 28-foot (8.5-m) wide pavement including two 12-foot (3.6-m) wide travel lanes and 2-foot (0.6-m) wide full-depth paved shoulders.

The project will require the minor relocation of SR 2110 in order for this road to make a suitable intersection with the project roadway. Also, a triple barrel, reinforced concrete box culvert will be required where the project crosses Loves Creek. Each barrel should be approximately 10 feet (3.0 m) wide by 9 feet (2.7 m) high.

The required right-of-way width is 80 feet (24.4 m) for the first 0.4 mile (0.6 km) where the alignment follows College St., and 100 feet (30.5 m) for the remainder of the project, which is on new location.

This project is expected to require 7 residential and no business relocations. The total cost including construction and right-of-way is estimated to be \$7,000,000.

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 enhance current and future traffic flow in the inner southeast quadrant of Siler City. Land along the project corridor is mostly undeveloped residential property. Near the south project terminus, along College Street, there is mainly single family residential development. The undeveloped land along the corridor has the potential for future growth. This project was requested by the City of Siler City. The project corridor is a Major Thoroughfare on the Siler City Thoroughfare Plan.

College Street is a 2-lane shoulder and ditch cross-section with an 18-foot (5.5-m) wide pavement. The existing right-of-way on College Street appears to be approximately 60 feet (18.3 m) wide. College Street is fully developed with single family homes. The remainder of the project corridor is through undeveloped land, although the alignment follows the proposed Pony Farm Road through the proposed Autumn Estates residential subdivision. Pony Farm Road has a dedicated right-of-way width of 60 feet (18.3 m).

Traffic volume estimates for the project corridor, for the years 1996 and 2020 are 2,300 vehicles per day (vpd) and 4,800 vpd respectively. The Level of Service (LOS) based on the years 1996 and 2020 respectively are LOS B and LOS C.

III. RECOMMENDATIONS

It is proposed to construct a new road from SR 2113 (South Chatham Street) to US 64 (E. Eleventh Street) in Siler City. The location is shown on Figure 1. The total project length is approximately 2.3 miles (3.7 km). The proposed cross-section, for the first 0.4 mile (0.6 km) is a 2-lane, curb-and-gutter section, 28 feet (8.5 m) wide from face-to-face of curbs with 10-foot (3.0-m) berms. The cross-section for the remainder of the project is a 2-lane, rural shoulder section with a 28-foot (8.5-m) wide pavement including two 12-foot (3.6-m) wide travel lanes and 2-foot (0.6-m) wide full-depth paved shoulders.

The project will require the minor relocation of SR 2110 in order for this road to make a suitable intersection with the project roadway. Also, a triple barrel, reinforced concrete box culvert will be required where the project crosses Loves Creek. Each barrel should be approximately 10 feet (3.0 m) wide by 9 feet (2.7 m) high.

The required right-of-way width is 80 feet (24.4 m) for the first 0.4 mile (0.6 km) where the alignment follows College St., and 100 feet (30.5 m) for the remainder of the project, which is on new location.

This project is expected to require 7 residential and no business relocations. The total cost including construction and right-of-way is estimated to be \$7,000,000 as follows:

Right-of-Way	\$ 2,500,000
Construction	<u>4,500,000</u>
Total Cost	\$ 7,000,000

IV. OTHER COMMENTS

An environmental screening was not conducted for this study. Some wetlands will be involved at Loves Creek. According to the maps of the Department of Environment, Health and Natural Resources - Natural Heritage Section, an endangered or threatened species, *Villosa delumbis*, has been identified about 1 mile (1.6 km) east of the project corridor. No historic properties are anticipated.

