

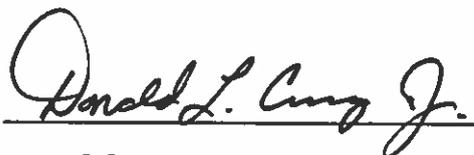
FEASIBILITY STUDY

Fayetteville  
SR 1344 (Natal St./Mid Pine Rd./Black & Decker Rd.)  
From SR 1141 (Cumberland Road) to  
I-95 Business/US 301  
Cumberland County  
U-3312

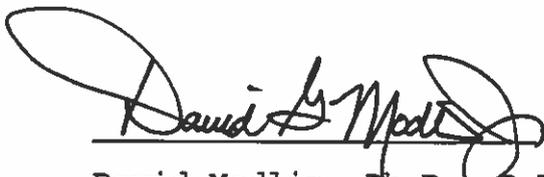
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## I. GENERAL DESCRIPTION

This preliminary study describes proposed improvements to SR 1344 in Fayetteville. It is proposed to widen SR 1344 from SR 1141 to I-95 Business/US 301, a distance of approximately 2.0 miles (3.2 km). Please see Figure 1 for the Project Location. A five-lane curb and gutter cross section, 64 feet (19.5 m) wide from face-to-face of curbs, is recommended on 90 feet (27.4 m) of right of way for the entire length.

The total estimated cost for the project including construction and right of way is \$3,900,000. It is estimated that there will be 1 residential and no business relocations due to this project.

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 problem, 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 improve the traffic carrying capacity and accident experience of SR 1344. The project was requested by the City of Fayetteville.

SR 1344 is designated a major thoroughfare on the Fayetteville Urban Thoroughfare Plan. Within the study limits it is classified as an urban collector in the North Carolina Statewide Functional Classification System.

Development on SR 1344 is a combination of residential and commercial. There is also significant undeveloped land, especially in the central portion of the project.

Existing SR 1344 is a two-way, three-lane road. The pavement width is generally 35 feet (10.7 m) wide and there are 8-foot (2.4-m) wide soil shoulders. The existing right-of-way appears to vary from 60 to 80 feet (18.3 to 24.4 m). The intersections with Legion Road, Camden Road and

Cumberland Road are controlled with traffic signals. Please see Figure 1 for the Project Location.

The Average Daily Traffic (ADT) on SR 1344 from Cumberland Road to I-95 Business is estimated at 11,000 vehicles per day (vpd) for 1993. The ADT for 2015 is projected to be 19,600 vpd.

SR 1344 currently operates at a Level of Service (LOS) E based on the 1993 peak traffic hour. With the proposed improvements, a LOS B will be attained based on 1993 traffic volumes and LOS C will prevail through the 2015 design year.

During the period from April 1, 1991, through March 31, 1994, there were 148 accidents reported on SR 1344. This resulted in an accident rate of 590 accidents per 100 million vehicle miles (Acc/100 MVM), compared to a statewide average of 311 Acc/100 MVM for all secondary routes during 1993. There was 1 fatal accident and 88 accidents resulted in non-fatal injuries. The most prevalent accident types were rear end (33%), angle (29%), and left turn (17%). The wider cross section with center turn lane proposed for SR 1344 will reduce the potential for these type accidents.

### III. RECOMMENDATIONS

It is proposed to widen SR 1344 from Cumberland Road to I-95 Business, a distance of approximately 2.0 miles (3.2 km). Please see Figure 1 for the Project Location. A five-lane curb and gutter cross section, 64 feet (19.5 m) wide from face-to-face of curbs, is recommended on a 90 foot (27.4 m) wide right of way for the entire length.

The widening of SR 1344 will generally be done symmetrically to the existing centerline of SR 1344.

It is estimated there will be 1 residential and no business relocations due to this project. The total estimated cost including construction and right of way is \$ 3,900,000 and is broken down as follows:

Construction .....	\$ 3,100,000
Right of Way .....	\$ 800,000
Total Cost .....	\$ 3,900,000

### IV. OTHER COMMENTS

Legion Road (SR 1132) and Camden Road (SR 1003) are currently programmed to be widened to five-lane curb and gutter sections in the NCDOT's Transportation Improvement

Program (TIP). The project numbers are U-2809 and U-2810 respectively.

An environmental screening was not conducted for this study, however no historic properties or wetlands are anticipated.

During the course of this study, the City of Fayetteville, through the Fayetteville Urban Area Transportation Advisory Committee, requested that the scope of this project be increased to include, "as a separate project", the relocation of the service road at the east project terminal. Specifically, the proposal is to relocate the service road on the west side of I-95 Business approximately 360 feet (109.8 m) to the west. This will enhance traffic operations at the SR 1344/I-95 Business intersection. This improvement and related cost are not included in the above recommended improvements. The estimated total cost to relocate the service road is \$1,000,000 as follows:

Construction.....	\$ 500,000
Right-of-Way.....	\$ 500,000
Total Cost .....	\$1,000,000

