

FEASIBILITY STUDY

Sanford

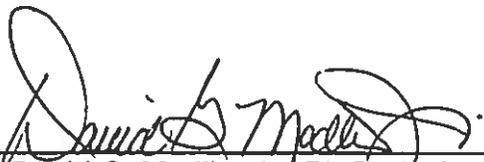
**Proposed Intersection Improvements
Lee Avenue (SR 1113) and Seawell Street**

Lee County

U-3626

Division 8

Prepared by
Program Development Branch
Division of Highways
N. C. Department of Transportation



David G. Modlin, Jr. Ph.D., P.E.
Head of Feasibility Studies

2/28/97

Date

FEASIBILITY STUDY

Sanford

Proposed Intersection Improvements Lee Avenue (SR 1113) and Seawell Street

Lee County

U-3626

I. GENERAL DESCRIPTION

This feasibility study evaluates the potential for widening Lee Avenue (SR 1113) and providing intersection improvements at the Lee Avenue / Seawell Street intersection. During the course of the study, the cost of improving Lee Avenue between Seawell Street and Wilson Road (SR 1136) was also evaluated.

The studied improvements include widening Lee Avenue (SR 1113) to a 3-lane curb and gutter section, 36 feet (11.0 m) face-to-face of curbs, with 10-foot (3.0-m) berms on 60 feet (18.3 m) of right-of-way between Rand Street and Seawell Street and 80 feet (24.4 m) of right-of-way between Seawell Street and Wilson Road. It is recommended that Lee Avenue be improved to a 3-lane curb and gutter section between Rand Street and Wilson Road. The recommended project length is approximately 0.7 mile (1.1 km).

This study also includes upgrading the drainage under Lee Avenue immediately north of Seawell Street by removing the existing piping and providing a 60-inch (1.6 m) reinforced concrete pipe to adequately address drainage needs.

Providing a requested signal at Lee Avenue and Seawell Street was also investigated. With current estimated traffic volumes and turning movements, this intersection is estimated to operate at Level of Service C as a two-way, stop-controlled intersection. At this time, no signal is recommended. With design year traffic volumes a signal may be justified.

This study is not a detailed planning/environmental investigation. A feasibility study presents studied cross-sections for improvements, general corridors of improvements, and estimated costs of construction and right-of-way. This study attempts to identify any potential environmental, permitting, or other observed issues that deserve consideration in the planning and construction stages.

This study also includes upgrading the drainage under Lee Avenue immediately north of Seawell Street by removing the existing piping and providing a 60-inch (1.6 m) reinforced concrete pipe to adequately address drainage needs.

Providing a requested signal at Lee Avenue and Seawell Street was also investigated. With current estimated traffic volumes and turning movements, this intersection is estimated to operate at Level of Service C as a two-way, stop-controlled intersection. At this time, no signal is recommended. With design year traffic volumes a signal may be justified.

Moderate utility conflicts are expected.

It is estimated that this project would require the relocation of no residences or businesses.

Total project cost for the initial requested project limits is estimated as follows:

Right-of-Way	\$ 80,000
Construction	<u>\$ 250,000</u>
Total	\$ 330,000

To extend the project to Wilson Road, which is the recommended southern project terminus, the **total project cost** is estimated as follows:

Right-of-Way	\$ 282,000
Construction	<u>\$ 575,000</u>
Total	\$ 875,000

IV. OTHER COMMENTS AND CONCERNS

During the field investigation, numerous small/moderate industrial sites with parking lots for a 100 or more cars were observed. To extend the recommended three-lane curb and gutter section to Wilson Avenue would probably benefit this portion of Lee Avenue more than improvements to the northern portion of the project area. The three-lane section would provide a continuous left-turn lane and the curb and gutter section would define the driveway access points.

Based on a GIS screening, it is not anticipated that this project will require any environmental permits.

