

FEASIBILITY STUDY

Shalotte

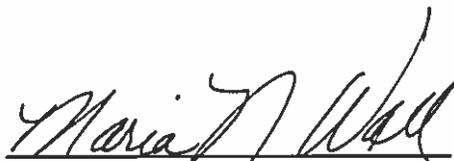
New Route

from US 17 to NC 130

Brunswick County

U-3473

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



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Date

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I. GENERAL DESCRIPTION

This is a feasibility study for a new route, from US 17 to NC 130, in Brunswick County (See Figures 1 and 2). The project is approximately 1.9 miles (3.1 km) in length. The recommended typical cross-section is a two-lane, 24-foot (7.3-m) roadway with 8-foot (2.4-m) shoulders, including 4-foot (1.2-m) paved shoulders on a 100-foot (30.5-meter) wide right-of-way with no access control. The estimated cost is \$3,200,000 (\$600,000 for right-of-way and \$2,600,000 for construction).

II. NEED FOR PROJECT

The studied project is shown on the 1994 Shallotte Thoroughfare Map as part of a local loop and bypass around Shallotte. The purpose of this project is to allow beach traffic from NC 130 north and US 17 more direct access and to relieve traffic congestion in Shallotte caused by through traffic.

The south terminal is located at the intersection of US 17 and SR 1153 (Ocean Isle Beach Road). South of this terminal, SR 1153 is a two-lane, 26-foot (7.9-m) wide roadway. The north terminal is located at the intersection of NC 130 and SR 1320 (McMilly Road). SR 1320 is a two-lane, 20-foot (6.1-m) wide roadway. Land use along the study corridor is mixed, rural residential, agricultural, and wooded.

Estimated 1995 average daily traffic (ADT) on the new route is 1,100 vehicles per day (vpd). In the design year 2015, the traffic volume is expected to be 4,000 vpd. Based on the recommended typical section, the new route would operate at a level of service (LOS) A, and is anticipated to operate at a LOS B in the design year 2015.

The Office of Bicycle and Pedestrian Transportation has recommended bicycle accommodations be provided along the new route. This route is

expected to be used in the future re-routing of a portion of the "Ports of Call" bicycle route in this area.

West Brunswick High School is located on the north side of NC 130, between SR 1320 and US 17. It is not anticipated that the recommended corridor will impact the school property.

McMilly Swamp, which is located in the Lumber River Basin, is indexed as Class C Sw. The National Wetland Inventory mapping indicates that there are wetlands in the study corridor. Based on GIS mapping, an endangered plant has been identified in the northern section of this project.

III. RECOMMENDATIONS

The recommended new route, from US 17 to NC 130, is approximately 1.9 miles (3.1 km) in length (See Figure 2). The recommended typical cross-section is a two-lane, 24-foot (7.3-m) roadway with 8-foot (2.4-m) shoulders, including 4-foot (1.2-m) paved shoulders on a 100-foot (30.5-meter) wide right-of-way with no access control. Four-foot (1.2-m) paved shoulders are recommended to provide bicycle accommodations. Section One is approximately 1.3 miles (2.1 km) of roadway on new location. Section Two, approximately 0.6 miles (1.0 km) in length, would utilize the existing road bed on SR 1320. It is recommended that the existing pavement in this section be removed and replaced.

The estimated project cost is:

Right-of-Way Cost	\$ 600,000
Construction Cost	\$ 2,600,000
<u>Total Cost</u>	<u>\$ 3,200,000</u>

The recommended route should allow beach traffic from NC 130 north and US 17 more direct access to Ocean Isle Beach and should relieve traffic congestion in Shallotte caused by through traffic.

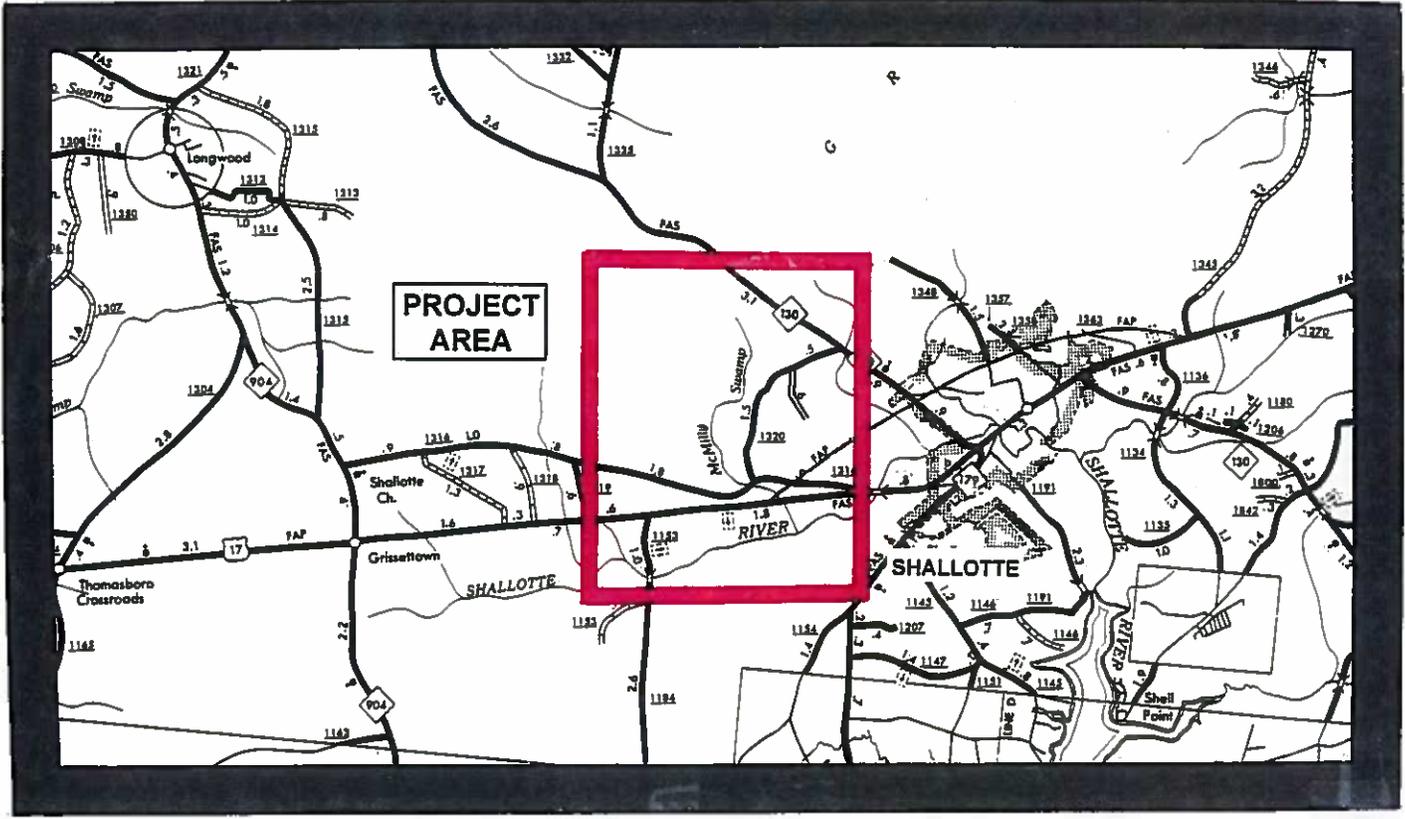
Minimal utility conflicts are expected.

IV. OTHER COMMENTS AND CONCERNS

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

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.

No historical or architecturally significant sites are known to be impacted. The following permits may be required for this project: a US Army Corps of Engineers Section 404 Permit, a 401 Water Quality Certification, a State Dredge and Fill Permit, and a CAMA Permit.



Program Development Branch Feasibility Studies Unit	
U-3473 Shallotte New Route from US 17 to NC 130 (Whiteville Road) BRUNSWICK COUNTY	
DIVISION 3	FIGURE 1

