

FEASIBILITY STUDY

US 17
From 0.4 mile north of NC 87 to US 74-76
Brunswick County

R-2901

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 the resurfacing, restoration, and rehabilitation of an 8.5-mile segment of US 17 from 0.4 mile north of NC 87 to US 74-76 in Brunswick County. All recommended improvements are to take place within the existing right-of-way, and would not change the existing typical cross-section. The preliminary estimated cost of the recommended improvements is \$5,200,000.

This study is not a detailed planning/environmental investigation. A feasibility study presents recommended typical cross sections, general alignments, and estimated cost of the improvement. The study also attempts to provide an early identification of potential environmental, permitting, or other issues which deserve consideration in the planning and construction stages.

II. NEED FOR PROJECT

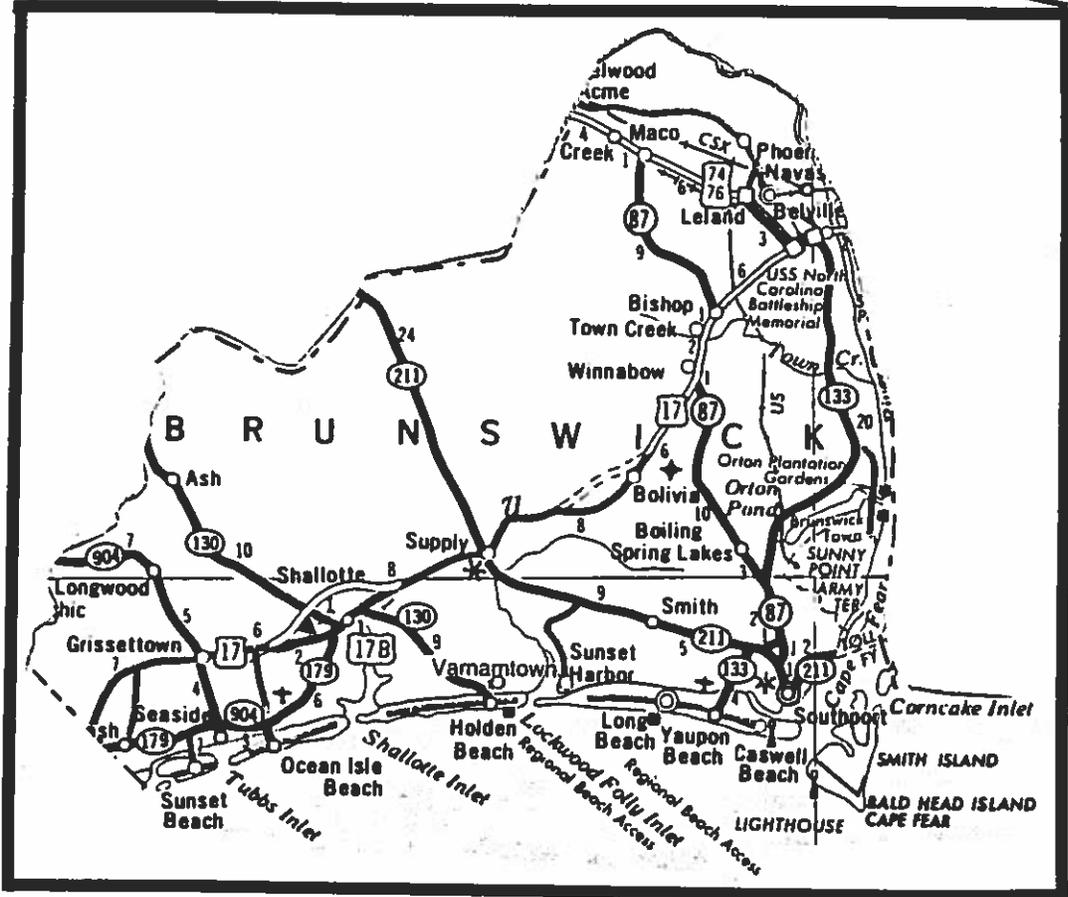
This improvement was requested by Division 3 to resurface, restore, and rehabilitate the studied section of US 17. The recommended improvements are needed to rectify existing deficiencies, and recondition the roadway. The estimated average daily traffic (ADT), along the studied section of US 17 is 16,400 vehicles per day (vpd) during 1993. This traffic demand is estimated to grow to 28,400 vpd by 2013. These traffic estimates include 5% truck tractor-semi-trailers, and 4% dual rear-axle vehicles.

The existing typical cross-section consists of two 24-foot pavements (two lanes per direction of travel) divided by a 60-foot grassed median, and 12-foot usable shoulders (including 4-foot paved shoulders).

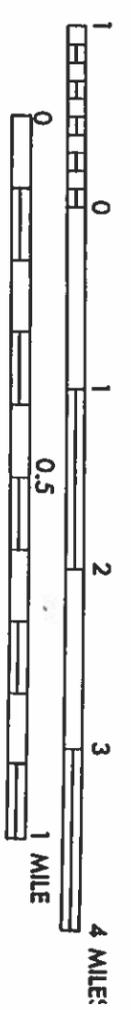
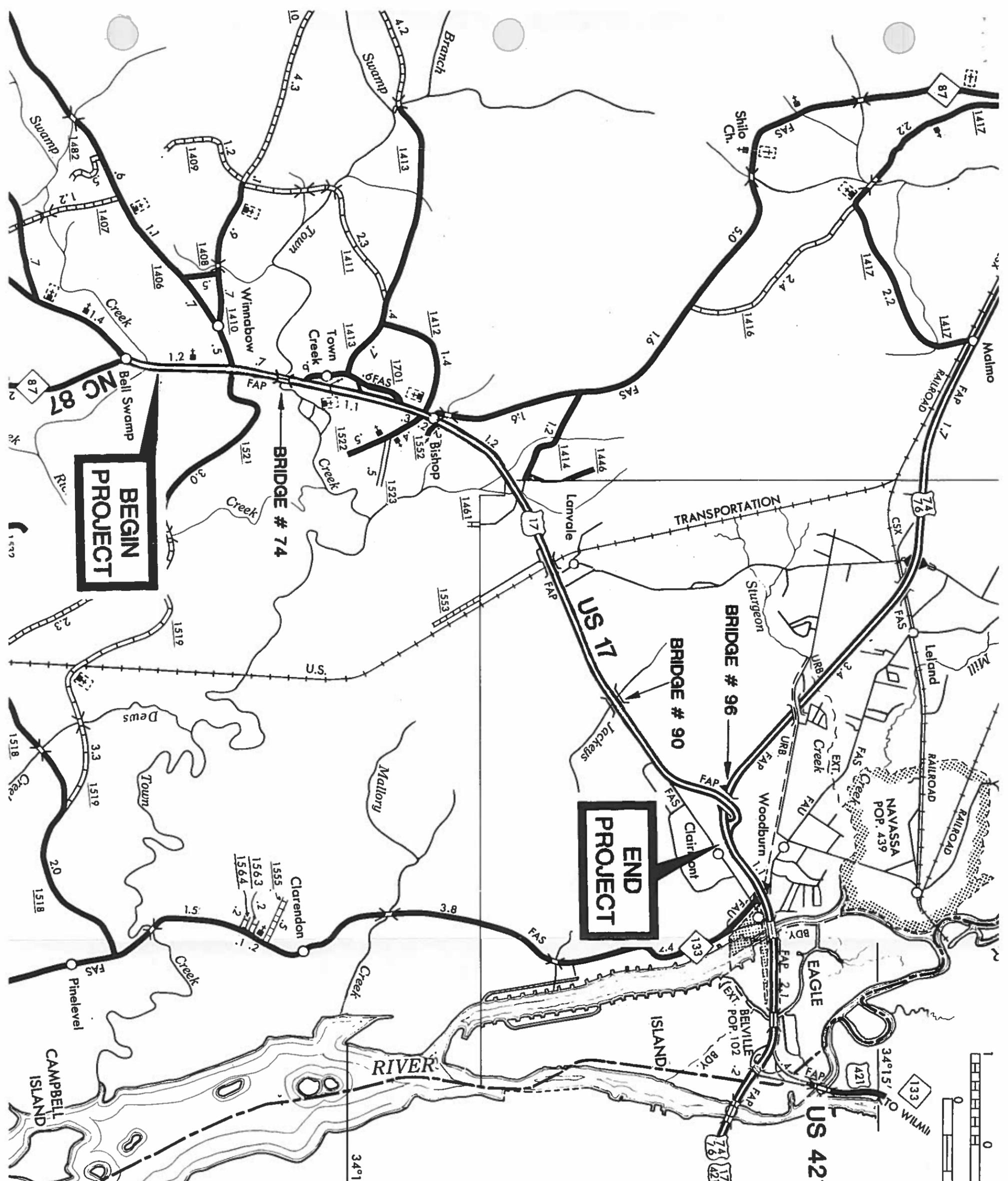
The estimated cost of the recommended improvements is \$5,200,000 (including \$230,000 for traffic control).

IV. ENVIRONMENTAL CONCERNS

Since all proposed construction activities would be confined to the existing roadway, no significant environmental impacts are anticipated. However, this project would require either a CAMA permit, or a CAMA Consistency Determination.



FEASIBILITY STUDIES UNIT	
R-2901	
US 17	
FROM 0.4 MILES NORTH OF NC 87	
TO US 74/76	
BRUNSWICK COUNTY	
DIVISION 3	FIGURE 1



FEASIBILITY STUDIES UNIT
R-2901
 US 17
 FROM 0.4 MILES NORTH OF NC 87
 TO US 74/76
BRUNSWICK COUNTY
 DIVISION 3
 FIGURE 2