

**APPROVED**  
By Planning Board  
Date 7-11-83

PROJECT PLANNING REPORT

US 158, Forsyth County  
From East City Limits of Winston-Salem  
To North of SR 1969  
State Project 8.1620601, R-929  
Federal-Aid Project FR-74-1(5)

Submitted to  
Planning Board  
by  
Planning and Research Branch  
Division of Highways  
N. C. Department of Transportation

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July, 1983

US 158, Forsyth County  
From East City Limits of Winston-Salem  
to North of SR 1969  
R-929

Project Description

The proposed project consists of adding paved shoulders, providing turn lanes at three locations, and resurfacing along a 9.4-mile section of US 158 from the city limits to SR 1971, and also constructing paved shoulders but no resurfacing on the remaining 0.9 mile portion from SR 1971 to a point approximately 0.3 mile north of SR 1969. Because of limited environmental impacts, this project is considered a federal "categorical exclusion."

Existing Conditions

The subject 10.3 -mile section of US 158 has a 24-foot pavement with 6 to 10-foot shoulders constructed on good alignment. No bridges exist along this facility; however, a sizable culvert, approximately 60 feet long, with concrete rails is located at Belews Creek. Posted speed limit along this section of road is 55 MPH.

At the northern terminal of the project, the adjoining section has 2-foot paved shoulders and was resurfaced in 1982.

Current daily traffic volumes range from approximately 5000 vehicles per day at SR 1969 to 10,500 vpd at the city limits. This traffic is expected to increase 7000 to 14,000 vpd in ten years. Truck traffic constitutes approximately 9 percent of the daily traffic volume.

A total of 105 accidents were reported along the studied section of US 158 during a recent 3-year period. Approximately 40 percent of the accidents occurred at the intersections of SR 2396, NC 66, and SR 2385. Rear end collisions were the major contributor of these accidents.

Proposed Improvements

Proposed improvements are as follows:

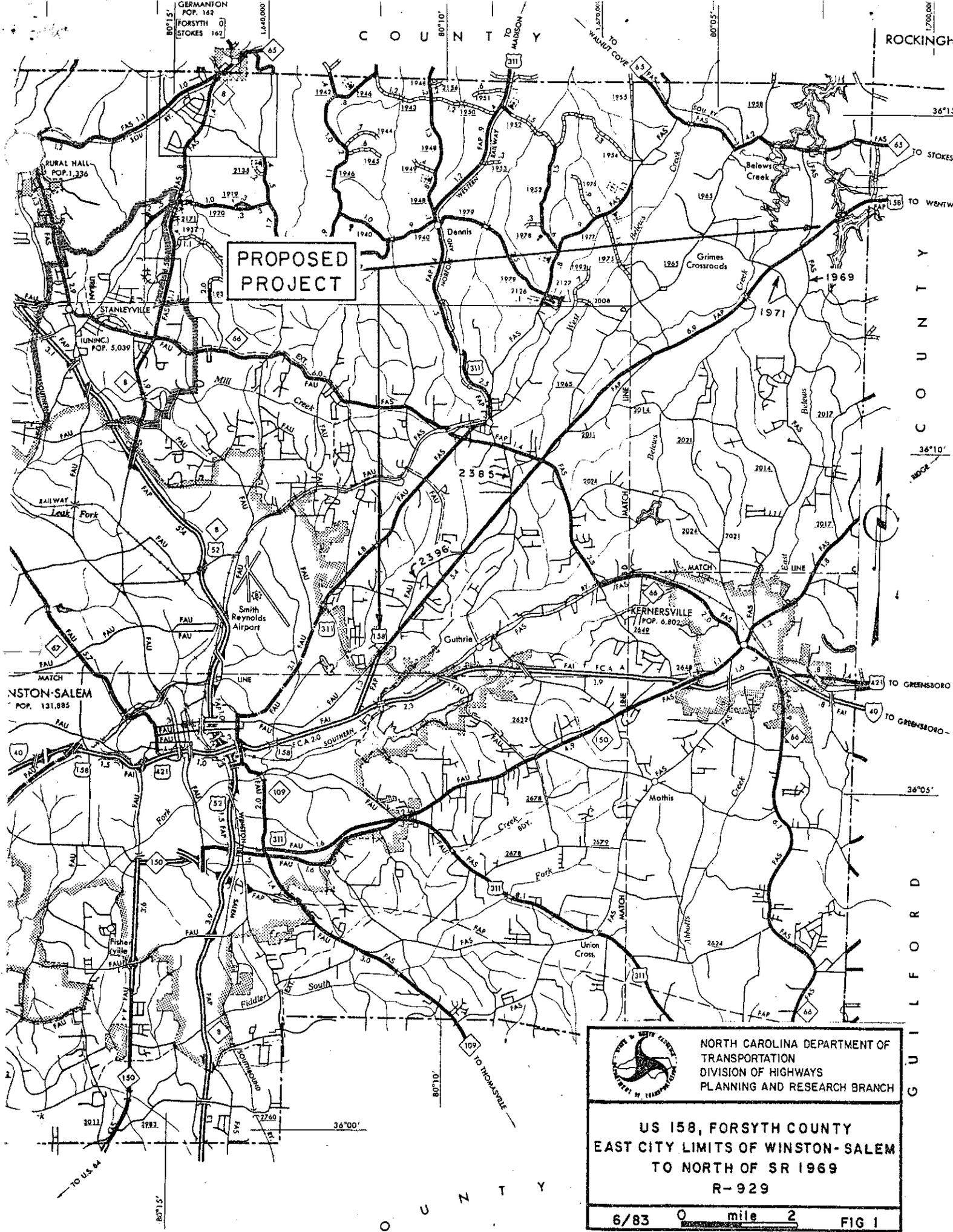
- (1) Construction of 2-foot paved shoulders along the entire length of project
- (2) Resurfacing of 9.4 miles of road from city limits to SR 1971 (Resurfacing not required on remaining 0.9 mile portion to north of SR 1969)
- (3) Addition of left turn lanes at SR 2396 (south end), NC 66, and SR 2385

- (4) Installation of approximately 2150 feet of guardrail at 6 locations along the project, including replacement of concrete rails at the Belews Creek culvert
- (5) Placement at monolithic islands on 9 intersecting roads

After construction of the paved shoulders, the remaining 4 to 8-foot earth shoulders would be reconstructed to the existing limits, resulting in finished shoulder widths of 6 to 10 feet. A short length of shoulders at the south end of the project would have a width of less than the minimum AASHO standard of 8-foot usable shoulder. However, widening of the narrower shoulders is not proposed because of additional cost and low accident rate. The Federal Highway Administration has approved an exception to the shoulder width policy for the project.

Total estimated cost of the project is \$850,000.

RGD/sdt



**PROPOSED  
PROJECT**



NORTH CAROLINA DEPARTMENT OF  
 TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 PLANNING AND RESEARCH BRANCH

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**US 158, FORSYTH COUNTY  
 EAST CITY LIMITS OF WINSTON-SALEM  
 TO NORTH OF SR 1969  
 R-929**

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6/83    0    mile    2    FIG 1

D S O N

C O U N T Y

G U I L F O R D

ROCKINGH.

C O U N T Y

36°05'

36°10'

36°15'

TO STOKES.

TO WENTW.

TO GREENSBORO

TO GREENSBORO

TO U.S. 64

TO DICKINSON

GERMANTON  
POP. 162  
FORSYTH  
STOKES 142

STANLEYVILLE  
(UNINC.)  
POP. 5,039

WINSTON-SALEM  
POP. 131,885

KERNERSVILLE  
POP. 6,802  
2642

RURAL HALL  
POP. 1,336

**PROPOSED  
PROJECT**

Smith Reynolds Airport

Guthrie

Moithis

Union Cross

Grimes Crossroads

Belows Creek

Fisher

Fiddler

South

South