



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT, JR.
GOVERNOR

DIVISION OF HIGHWAYS
P.O. BOX 25201, RALEIGH, N.C. 27611-5201

R. SAMUEL HUNT III
SECRETARY

January 24, 1995

MEMORANDUM TO: Whitmel H. Webb, P. E.
Manager of Program Development Branch

FROM: David G. Modlin, Jr., P. E.
Head of Feasibility Studies

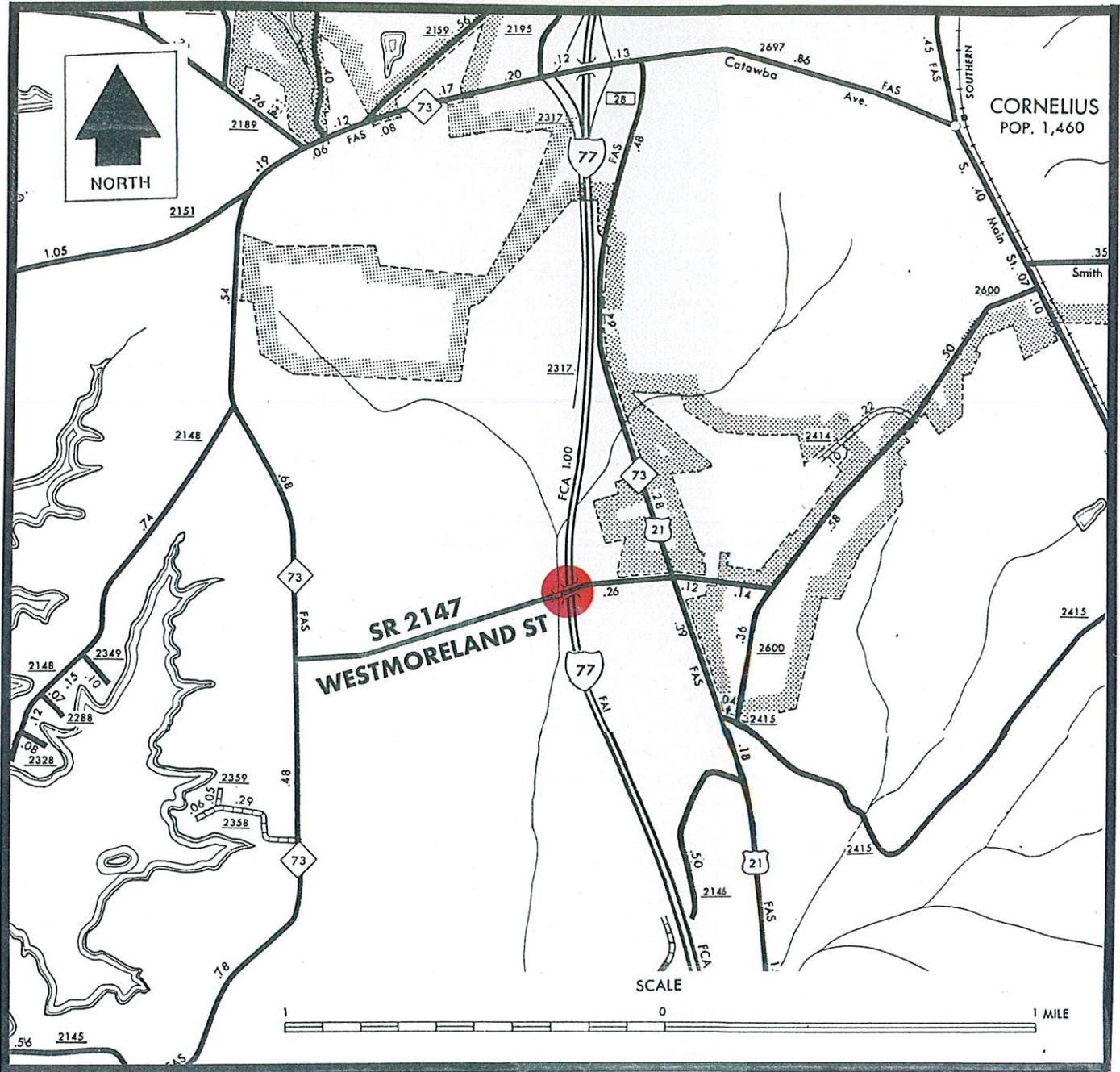
SUBJECT: Proposed New Interchange, I-77 at SR 2147
(Westmoreland Street), Cornelius, Mecklenburg
County, FS 59-95-012

At the request of Board Member Peter Pappas, the cost of converting the existing grade separation at I-77 and SR 2147 (Westmoreland Street) in Cornelius, north of Charlotte, has been investigated.

The existing structure carries SR 2147 over I-77. The clear roadway width is 36 feet (11.0 m). The sufficiency rating of the structure is 84.6. An existing interchange of I-77 with NC 73 is approximately 1.0 miles (1.6 km) north of SR 2147. Additionally, an existing interchange of I-77 with SR 2136 (College Street) in Huntersville is approximately 3.4 miles (5.5 km) south of SR 2147. In rural settings, the minimum recommended interchange spacing is 2.0 miles (3.2 km).

Should an interchange project be programmed for this location, the recommended type is the diamond interchange. The project would involve adding ramps to the existing grade separation. The estimated cost to convert the existing grade separation to the studied diamond interchange is \$ 3,300,000, (\$ 3,100,000 for construction and \$ 200,000 for right of way).





FEASIBILITY STUDIES UNIT

FS# 59-95-012

PROPOSED NEW INTERCHANGE
I-77
AT SR 2147 (WESTMORELAND STREET)

MECKLENBURG COUNTY

DIVISION 10 **FIGURE 1**