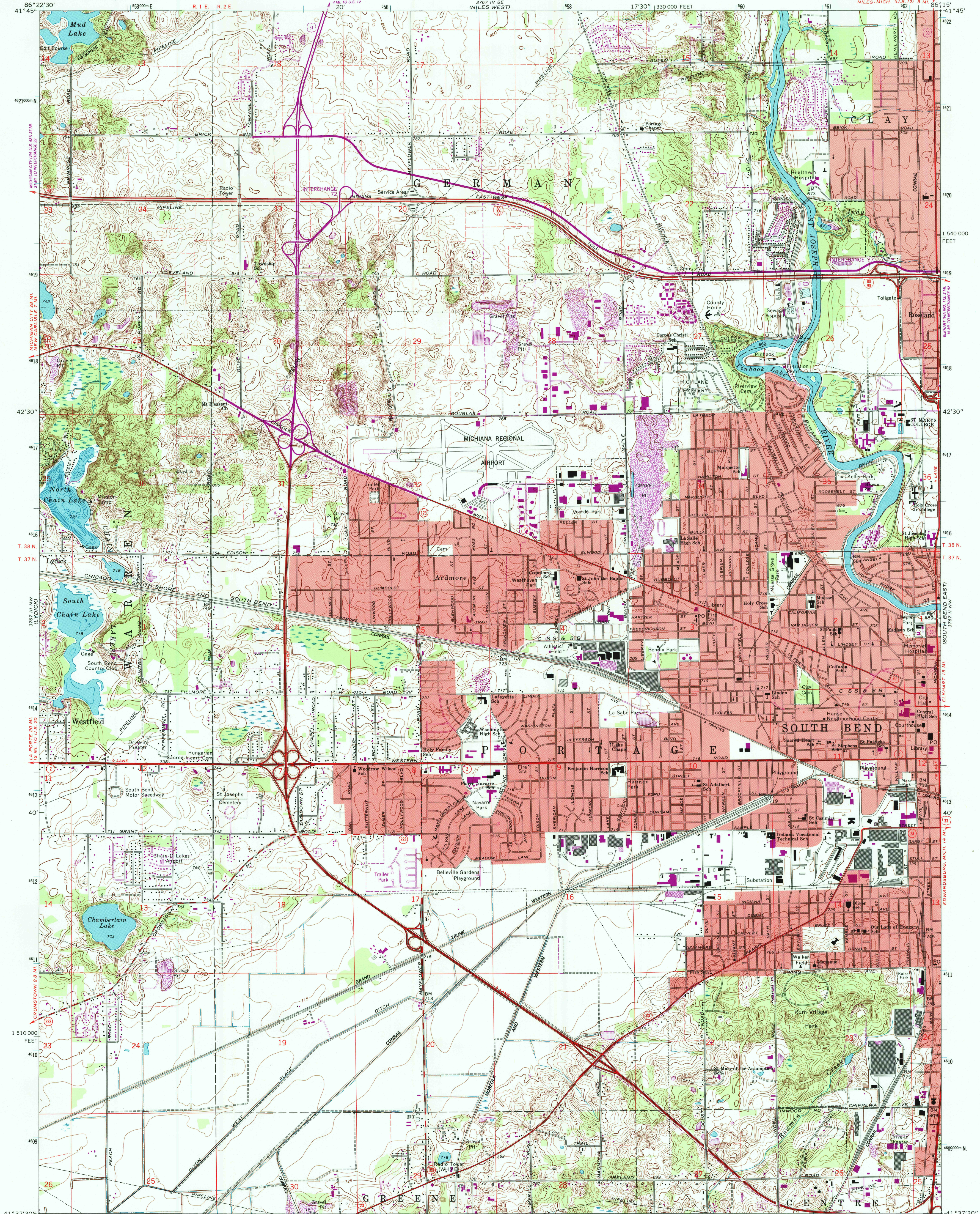
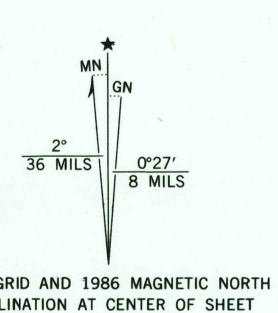


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SOUTH BEND WEST QUADRANGLE
INDIANA-ST. JOSEPH CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey
Revised in cooperation with Indiana Department of Natural Resources
Control by USGS, NOS/NOAA, and Indiana Flood Control
and Water Resources Commission
Planimetry by photogrammetric methods from aerial photographs
taken 1952. Topography by planetable surveys 1957-1958
Revised from aerial photographs taken 1967. Field checked 1969
Depth curves and soundings compiled from USGS-Indiana
Department of Natural Resources lake charts
Polyconic projection. 10,000-foot grid ticks based on
Indiana coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks,
zone 16, shown in blue
1927 North American Datum
To place on the predicted North American Datum 1983
move the projection lines 2 meters east
as shown by dashed corner ticks
Fine red dashed lines indicate selected fence and field lines where
generally visible on aerial photographs. This information is unchecked



SCALE 1:24,000
CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND INDIANA DEPARTMENT OF NATURAL RESOURCES, INDIANAPOLIS, INDIANA 46204
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Revisions shown in purple and woodland compiled in
cooperation with State of Indiana agencies from
aerial photographs taken 1981 and other sources
This information not field checked. Map edited 1986

ROAD CLASSIFICATION
Primary highway, all weather, hard surface
Secondary highway, all weather, hard surface
Light-duty road, all weather, improved surface
Unimproved road, fair or dry weather
Interstate Route
U. S. Route
State Route

SOUTH BEND WEST, IND. 10
41086-F3-TF-024
1989
PHOTOREVISED 1986
DMA 3767 III NE-SERIES V851

USGS AND HISTORICAL
MAP ARCHIVES
MAY 3 1998
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