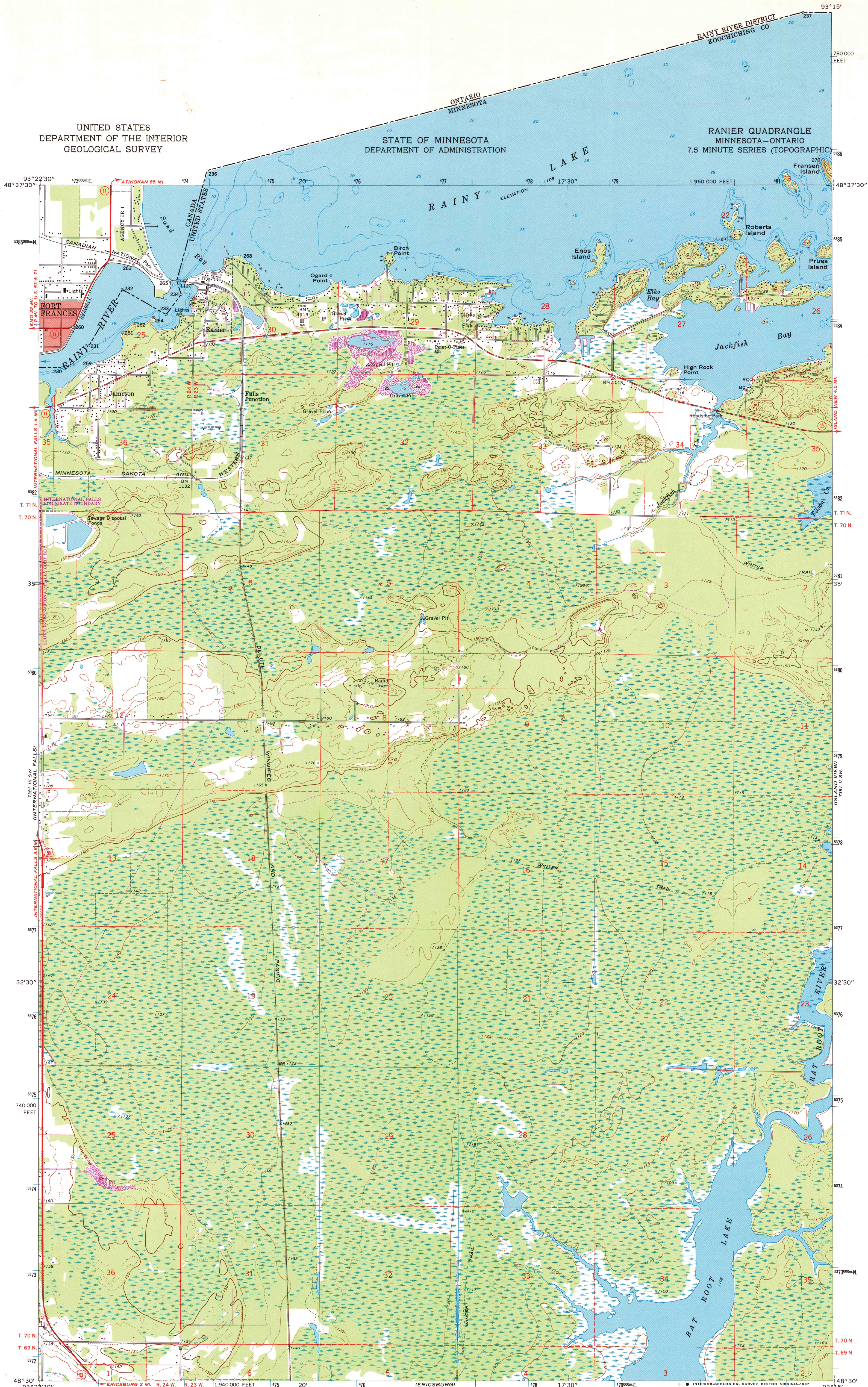




UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MINNESOTA
DEPARTMENT OF ADMINISTRATION

RANIER QUADRANGLE
MINNESOTA-ONTARIO
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey
Control by USGS, NOS/NOAA, and International Boundary Commission

Topography by photogrammetric methods from aerial
photographs taken 1968. Field checked 1969
Canadian portion copied in part from advance print Fort Frances
quadrangle (1:40 000) 1964, Department of Energy, Mines and
Resources

Selected hydrographic data compiled from U. S. Lake Survey
Chart 823 (1965). This information is not intended
for navigational purposes

Polycyclic projection. 1927 North American Datum
10,000-foot grid based on Minnesota coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks,
zone 15, shown in blue

Red tint indicates area in which only landmark buildings are shown

To place on the predicted North American Datum 1983
move the projection lines 5 meters north and
14 meters east as shown by dashed corner ticks

UTM GRID AND 1986 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SCALE 1:24 000
7380 IV NE
CONTOUR INTERVAL 10 FEET IN THE UNITED STATES AND 50 FEET IN CANADA
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET-DATUM IS 1102 FEET

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

ROAD CLASSIFICATION
Primary highway, all weather, Light-duty road, all weather,
hard surface, improved surface
Secondary highway, all weather, Unimproved road, fair or dry
hard surface, weather

U. S. Route State Route



Revisions shown in purple compiled from
aerial photographs taken 1981 and other
source data. Partial field check by
U. S. Forest Service. Map edited 1986

RANIER, MINN.-ONT.
48093-E3-TF-024

1969
PHOTOREVISED 1986
DMA 7381 III SE-SERIES V872

JUL 29 1987

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