

Mapped, edited, and published by the Geological Survey in cooperation with State of Michigan agencies

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Topography by photogrammetric methods from aerial photographs taken 1969. Field checked 1972

Selected hydrographic data compiled from U. S. Lake Survey Charts 76 (1973) and 765 (1972). This information is not intended for navigational purposes

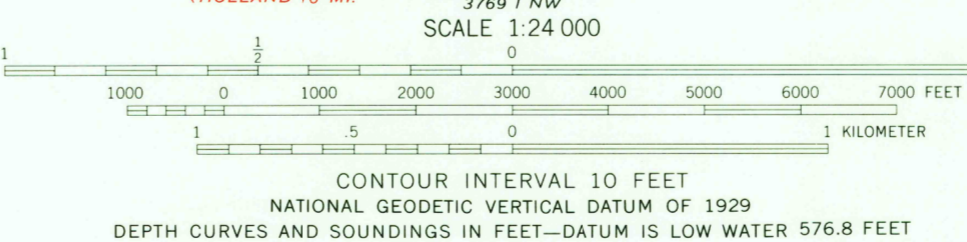
Projection and 10,000-foot grid ticks: Michigan coordinate system, south zone (Lambert conformal conic)

1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue. 1927 North American datum

Red tint indicates areas in which only landmark buildings are shown

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Map photos inspected 1980
No major culture or drainage changes observed



UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS LOW WATER 576.8 FEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND GEOLOGICAL SURVEY DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES, LANSING, MICHIGAN 48909
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

To place on the predicted North American Datum 1983
move the projection lines 2 meters north and
2 meters east as shown by dashed corner ticks

ROAD CLASSIFICATION

Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road
Interstate Route	U. S. Route
	State Route

GRAND HAVEN, MICH
SW 1/4 MUSKOGON 15' QUADRANGLE
43086-A2-TF-024

1972
PHOTOINSPECTED 1980
DMA 3770 II SW—SERIES V862

REC'D FILE COPY
JAN 29 1980
USGS MAP HISTORICAL MAP