



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY DERIVED FROM IMAGERY DATED.....1977
PHOTOINSPECTED USING IMAGERY TAKEN.....1997
NO MAJOR CULTURE OR DRAINAGE CHANGES OBSERVED
PLSS AND SURVEY CONTROL CURRENT AS OF.....1979
BOUNDARIES REVISED.....2000
PROJECTION.....UNIVERSAL TRANSVERSE MERCATOR
1000-METER UNIVERSAL TRANSVERSE MERCATOR GRID.....ZONE 16
10,000-FOOT STATE GRID TICKS.....MICHIGAN, CENTRAL ZONE
UTM GRID DECLINATION.....0°45' EAST
2000 MAGNETIC NORTH DECLINATION.....5°00' WEST
VERTICAL DATUM.....NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM.....NORTH AMERICAN DATUM OF 1927 (NAD 27)
North American Datum of 1983 (NAD 83) is shown by dashed corner ticks. The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are obtainable from National Geodetic Survey NADCON software
There may be private inholdings within the boundaries of Federal and State reservations shown on this map

PROVISIONAL MAP
Produced from original manuscript drawings. Information shown as of date of field check.

SCALE 1:25 000
1 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
KILOMETERS
METERS
MILES
FEET

CONTOUR INTERVAL 5 METERS
SUPPLEMENTAL CONTOUR INTERVAL 2.5 METERS
AND 1.5 METERS ALONG SHORELINE
CONTROL ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
OTHER ELEVATIONS SHOWN TO THE NEAREST 0.5 METER

To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by 3.048

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, P.O. BOX 25286, DENVER, COLORADO 80225
AND GEOLOGICAL SURVEY DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES, LANSING, MICHIGAN 48909
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD LEGEND

Improved Road
Unimproved Road
Trail

Interstate Route U. S. Route State Route

QUADRANGLE LOCATION

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

ADJOINING 7.5' QUADRANGLE NAMES

1 Leland
2 Glen Haven
3 Good Harbor Bay
4 Empire
5 Hardschelle
6 Maple City

GLEN ARBOR, MICHIGAN
PROVISIONAL EDITION 1997

RECEIVED
AUG 31 2000
USGS/MSD
HISTORICAL MAP ARCHIVES

