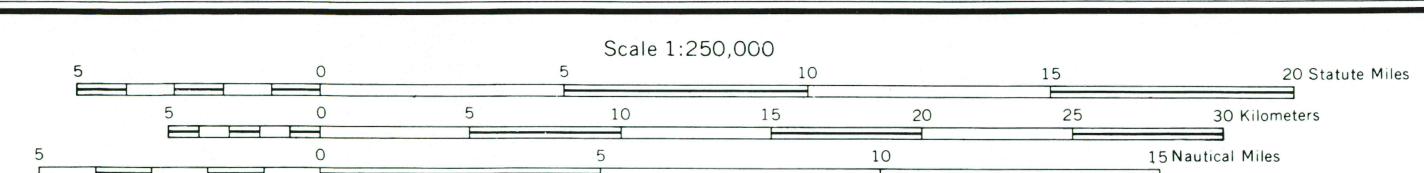


PRODUCED BY THE U. S. GEOLOGICAL SURVEY  
 Base map prepared by Defense Mapping Agency by photogrammetric methods and from 1:50,000 and 1:63,500-scale maps. Revised by the U. S. Geological Survey from aerial photographs taken 1979 and other source data. Revised information not field checked. Map dated 1980  
 Selected hydrographic data from NOS charts. This information is not intended for navigational purposes  
 Transverse Mercator Projection, 10,000-meter Universal Transverse Mercator grid, zone 17, 100,000-foot grid ticks based on Michigan coordinate system, central zone, 1927 North American Datum. To place on the predicted North American Datum 1983, move the projection lines 2 meters north and 7 meters west  
 Location of geodetic control established by government agencies is shown on corresponding 1:250,000-scale Geodetic Control Diagram  
 There may be private inholdings within the boundaries of the National or State reservations shown on this map

**LEGEND**  
 Figures in red denote approximate distances in miles between stars

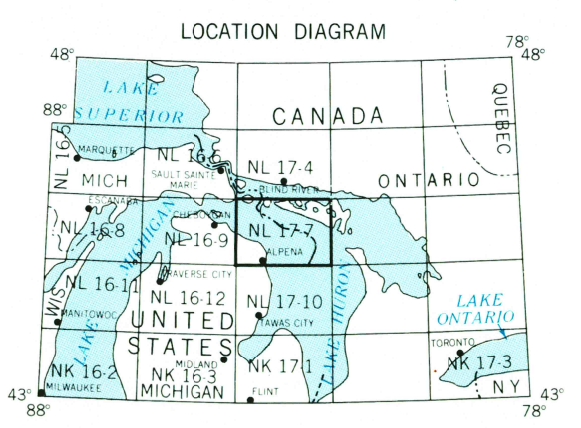
<b>POPULATED PLACES</b>	<b>ROADS</b>	<b>RAILROADS</b>	<b>LANDMARKS</b>
Over 500,000	Primary, all-weather, hard surface	Single track Double or Multiple track	Landmark: School; Church; Other
100,000 to 500,000	Secondary, all-weather, hard surface	Narrow gauge	Limit of danger: Reef
25,000 to 100,000	Light duty, all-weather, hard or improved surface	Normal gauge	Rocks: Awash; Sunken
5,000 to 25,000	Fair or dry weather, unimproved surface	Landplane airport	Seaplane airport
1,000 to 5,000	Trail	Seaplane airport	Seaplane anchorage
Less than 1,000		Seaplane anchorage	Intermittent or dry stream
		Power line	Woods-brushwood
		Spot elevation in feet	



CONTOUR INTERVAL 50 FEET  
 WITH SUPPLEMENTARY CONTOURS AT 25 FOOT INTERVALS

1980 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 6° (110 MILES) WESTERLY FOR THE CENTER OF THE WEST EDGE TO 7½° (130 MILES) WESTERLY FOR THE CENTER OF THE EAST EDGE

FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092



**SECTIONIZED TOWNSHIP**

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

**GRID ZONE DESIGNATION**  
 17T  
 100,000 M SQUARE IDENTIFICATION  
 KA LA MA  
 LV LV LV

**TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1000 METERS**  
 SAMPLE POINT - ELIZABETH BAY

- Read letters identifying 100,000 meter square in which the point lies
- Locate first VERTICAL grid line to LEFT of point and read LARGE figure labeling the line either in the top or bottom margin or on the line itself
- Locate first HORIZONTAL grid line BELOW point and read LARGE figure labeling the line either in the left or right margin or on the line itself
- Estimate tenths from grid line to point

**SAMPLE REFERENCE**  
 17T 18875  
 17T 18875  
 17T 18875

TOWNSHIP OR RANGE LINE  
 LAND GRANT BOUNDARY

ALPENA, MICH., U. S.; ONTARIO, CAN.

1954  
 REVISED 1980

RETURN TO:  
 USGS AND HISTORICAL MAP ARCHIVES

MAR 12 1984  
 MAR 12 1984  
 2000