

MARQUETTE MICHIGAN (NL 16-5)

Base prepared by the Army Map Service (KCSG), Corps of Engineers, U. S. Army, Washington, D. C. Compiled in 1957 by photogrammetric methods and from U. S. Quadrangles, 1:50,000, and 1:62,500, AMS and U. S. Geological Survey, 1955-56, U. S. Lake Survey Charts 9 and 93, 1955; Horizontal and vertical control by USCG&S and USGS. Map field checked, 1958.
100,000-FOOT PLANE COORDINATE GRID TICK SYMBOLS

HORIZONTAL CONTROL

- Coast & Geodetic Survey
- Geological Survey
- Monumented Point - First Order
- Monumented Point - Second Order
- Monumented Point - Third Order
- Located Object - Third Order
- See separate index for names of numbered stations
- Station reported not recovered
- Measured Base - Electronic or Taped
- Line of triangulation observed
- Line of triangulation observed from one end only
- Measured Length - Electronic or Taped
- Theodolite Traverse - Electronic Distance
- Transit Traverse - Taped Distance Third Order
- Transit Traverse and Leveling Third Order

VERTICAL CONTROL

- Coast & Geodetic Survey
- Geological Survey
- First Order
- Second Order
- Third Order

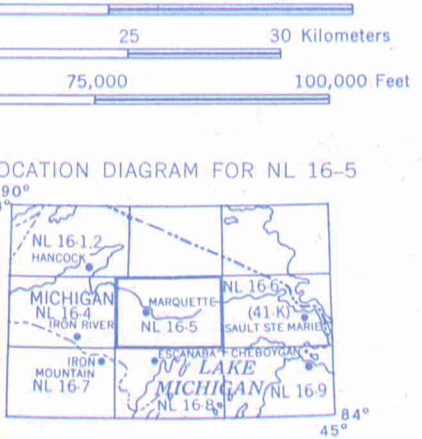
SECTIONIZED TOWNSHIP

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

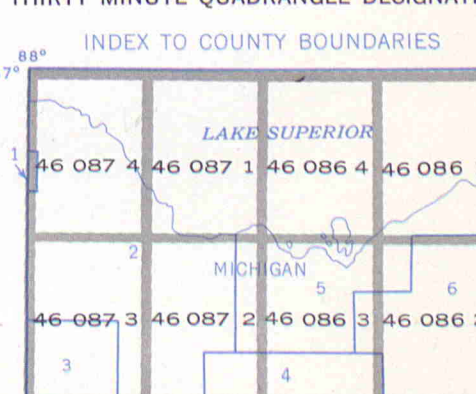
TRANSVERSE MERCATOR PROJECTION

- TOWNSHIP OR RANGE LINE
- LAND GRANT BOUNDARY
- LEGEND ROAD DATA 1956
- RAILROADS
- BOUNDARIES
- County
- State
- County
- Park or reservation

LOCATION DIAGRAM FOR NL 16-5



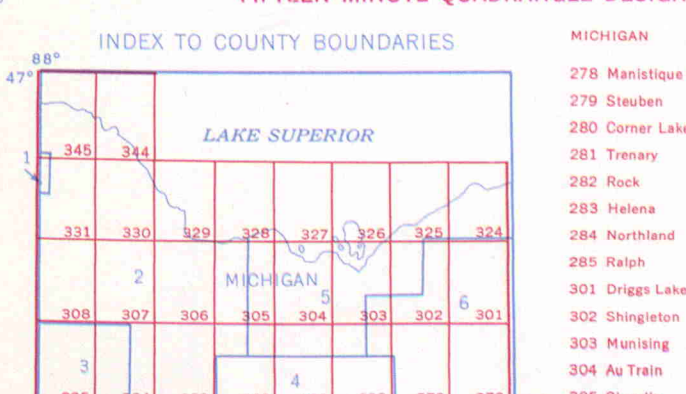
COAST AND GEODETIC SURVEY THIRTY MINUTE QUADRANGLE DESIGNATION



COUNTY DESIGNATIONS



GEOLOGICAL SURVEY FIFTEEN MINUTE QUADRANGLE DESIGNATION



ORDER CONTROL DATA IN BLACK BY 30 MINUTE QUADRANGLE UNITS FROM DIRECTOR, COAST AND GEODETIC SURVEY, WASHINGTON 25, D. C.

ORDER CONTROL DATA IN RED BY 15 MINUTE QUADRANGLE UNITS FROM DIRECTOR, GEOLOGICAL SURVEY, WASHINGTON 25, D. C.

MARQUETTE, MICHIGAN (NL 16-5) APRIL 1964

U. S. DEPARTMENT OF COMMERCE
 ENVIRONMENTAL SCIENCE SERVICES ADMIN.
 COAST AND GEODETIC SURVEY
 ROCKVILLE, MARYLAND 20852
 FORM - 6471 (2/68)
 DATE

REVISED MAY 1970 APR 1972

INDEX TO NUMBERED HORIZONTAL CONTROL STATIONS

by the
 Coast and Geodetic Survey

PAGE 1
 QUADS 460861-2-3-4 & 460871-2-3-4
 MICH
 LATITUDE 46° 00' TO 47° 00'
 LONGITUDE 86° 00' TO 88° 00'
 DIAGRAM NL 16-5 MARQUETTE

KEY NO	STATION NAME	QUAD NO	STATION NO	KEY NO	STATION NAME	QUAD NO	STATION NO
1	T 46N R 19W NE COR SEC 27 USLS	460863	1009	25	ISHPEMING WJPD RADIO MAST	460874	1029
2	FOREST LAKE	460863	1012	26	103 CCIC	460873	1001
2	TT 7T USGS FOREST LAKE LOOKOUT TOWER	460863	1013	26	ISHPEMING MUNICIPAL TANK	460873	1002
3	GRANITE ISLAND USLS	460871	1002	27	MARQUETTE BREAKWATER OUTER LIGHT	460871	1009
3	MUD LAKE USLS	460863	1017	28	PRESQUE ISLE HARBOR BREAKWATER LIGHT	460871	1013
3	T 45M R 20W SE COR SEC 4 USLS	460863	1018	29	GWINN LOOKOUT TOWER	460872	1009
4	SHELTER BAY USLS	460863	1020	30	BELL TEL CO KQF-88 W MICROWAVE MAST	460874	1024
4	TT 22 T USGS SHELTER RM 2	460861	1022				
5	STURGFON USLS	460863	1026				
5	T 42N R 19W NW COR NE QUART SEC 16 USLS	460863	1027				
6	GRANITE ISLAND BELL TOWER	460871	1007				
6	GRANITE ISLAND LIGHTHOUSE	460871	1008				
6	GRANITE ISLAND LIGHTHOUSE USLS	460871	1015				
7	MARQUETTE MUNICIPAL STANDPIPE	460871	1012				
7	MESNARD	460871	1005				
7	MT MESNARD USLS	460871	1004				
8	MARQUETTE WOMJ RADIO MAST	460871	1012				
9	MARQUETTE CATHOLIC CHURCH USLS	460871	1016				
9	MARQUETTE CITY HALL DOME USLS	460871	1017				
10	MARQUETTE METHODIST EPISCOPAL CHURCH USLS	460871	1018				
10	MARQUETTE OLD SCHOOLHOUSE USLS	460871	1019				
11	THONES HILL OBSERVATORY POST USLS	460871	1020				
12	SKANDIA RM 2 CENTER OF LOT	460872	1026				
13	FORSYTH TELEPHONE CO MICROWAVE TOWER	460872	1035				
14	GWINN ST ANTHONYS CHURCH SPIRE	460872	1037				
15	K 1 SAWYER AFB CONTROL TOWER	460872	1039				
15	K 1 SAWYER AFB WATER TANK BEACON STAFF	460872	1042				
15	SAWYER AIRPORT TANK	460872	1041				
16	CLIFF RM 1 CENTER OF LOT	460873	1009				
16	SUMMIT MTN MICH CONSER DEPT RADIO MAST	460873	1010				
16	SUMMIT MTN STATE POLICE RADIO MAST	460873	1011				
16	SUMMIT MTN TV STATION WLUC MAST	460873	1012				
17	REPUBLIC	460873	1024				
18	CLIFF MINE TIPPLE LIGHT	460873	1003				
19	REPUBLIC IRON CO MINE TANK	460873	1020				
20	HAIRPIN RM 2 CENTER OF LOT	460874	1008				
21	HURON MOUNTAINS LATITUDE STATION USLS	460874	1010				
22	PANORAMA RM 1 CENTER OF LOT	460874	1019				
23	CHAMPION MICH BELL TEL MICROWAVE MAST	460874	1006				
24	ISHPEMING MATHER MINE A TIPPLE LIGHT	460874	1028				