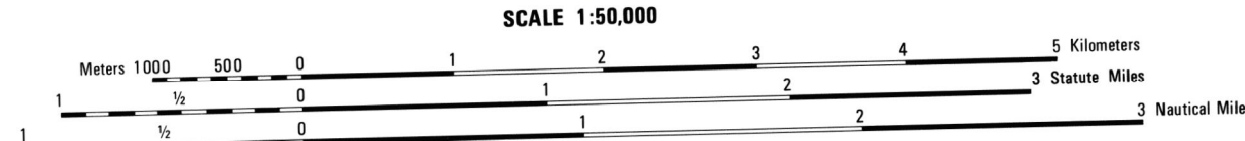


Prepared by the U. S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D. C.  
 MAP INFORMATION AS OF 1981.



**LEGEND**

CAUTION: ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE NOT SHOWN.  
 A LANE ON THIS MAP IS CONSIDERED TO BE 2.5 METERS WIDE.  
 IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.

	Divided highway with median strip		Power transmission line
	Primary, all-weather, hard surface		Structure
	Secondary, all-weather, hard surface		Church School
	Light duty, all-weather, hard or improved surface		Power substation
	Fair or dry weather, unimproved surface		Windmill/Watermill
	Trail		Well/Tank
	Route markers: Interstate, Federal, State		Mine shaft
	Bridge		Open pit mine or quarry
	RAILROADS (Standard gauge 1.44m - 4'8 1/2'')		Horizontal control station
	Single track		Bench mark, instrumented
	Nonoperating		Bench mark, non-instrumented
	Railroad station: Location known, Location unknown		Spot elevations in meters
	Car line		Levees, rims, dikes
	Railroad bridge		Bluffs, cliffs
	Tunnel: Highway, Railroad		Woodland
	BOUNDARIES		Scattered trees: Scrub
	County, parish		Vineyard: Orchard, plantation
	Civil township, town		Intermittent lake: Dam, Earthen; Masonry
	Incorporated city, village, town		Stream: Perennial; Intermittent
	Reservation: National, State, Military		Marsh, swamp
			Small falls, Large falls
			Small rapids, Large rapids

**ELEVATIONS IN METERS**

**CONTOUR INTERVAL 10 METERS**

**CONVERSION GRAPH**  
 11 meters = 32.8 feet

Meters	Feet
500	1640
1000	3280
1500	4920
2000	6560
2500	8200
3000	9840

**THIS MAP IS RED-LIGHT READABLE**

**100 METER REFERENCE**

1. Read large numbers labeling the VERTICAL grid line left of point and measure north 100 meters from grid line to point 12.3

2. Read large numbers labeling the HORIZONTAL grid line below point and measure west 100 meters from grid line to point 45.6

Example: 123456

WHEN REPORTING ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION WITH THE POINT USE.

Example: P123456

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION.

Example: 14SP123456

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**BOUNDARIES**

1. Morris County  
 2. Dickinson County  
 3. Marion County  
 4. Chase County

**ADJOINING SHEETS**

6661 I	6661 IV	6661 II
6661 II	6661 III	6661 I
6660 I	6660 IV	6660 II

**ELEVATION GUIDE**

**SLOPE GUIDE**

PERCENTAGE

PERCENTAGE	DEGREE
1%	5.7°
2%	11.3°
3%	17.0°
4%	22.6°
5%	28.2°
6%	33.7°
7%	39.3°
8%	44.7°
9%	50.1°
10%	55.6°
11%	61.0°
12%	66.4°
13%	71.8°
14%	77.1°
15%	82.4°
16%	87.7°
17%	93.0°
18%	98.3°
19%	103.5°
20%	108.8°

**TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH**  
 ADD 5.0 ANGLE

**TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH**  
 SUBTRACT 5.0 ANGLE

USERS SHOULD REFER TO CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NGA OPERATIONAL HELP DESK: 1-800-855-9899; COMMERCIAL 314-263-4884; (202) 858-4884. OR WRITE TO: DIRECTOR, NATIONAL GEOGRAPHIC-INTELLIGENCE AGENCY, ATTN: 65 MAIL STOP 1-108, 4800 SANDHURST ROAD, BETHESDA, MD 20816-5003.

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