

Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D.C.  
 MAP INFORMATION AS OF 1988

**LEGEND**

CAUTION: ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE NOT SHOWN.  
 A LINE ON THIS MAP IS CONSIDERED TO BE 2.5 METERS WIDE.  
 IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.  
 THERE MAY BE PRIVATE INHOLDINGS WITHIN THE BOUNDARIES OF THE NATIONAL OR STATE RESERVATIONS SHOWN ON THIS MAP.

**ROADS**

- Divided highway with median strip
- Primary, all weather, hard surface
- Secondary, all weather, hard surface
- Light duty, all weather, hard or improved surface
- Fair or dry weather, unpaved surface
- Trail
- Route markers: Interstate, Federal, State
- Bridge

**RAILROADS (Standard gauge 1.44m - 4'8 1/2")**

- Single track
- Multiple track
- Nonoperating
- Railroad station: Location known; Location unknown
- Car line

**RAILROAD BRIDGE**

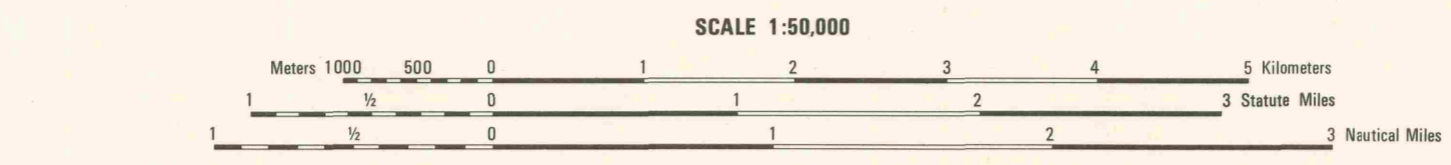
- Tunnel: Highway, Railroad

**BOUNDARIES**

- National, with monument
- State, territory
- County, parish
- Civil township, town
- Incorporated city, village, town
- Reservation: National; State; Military

**Power transmission line**

- Buildings
- Structures
- Church, school
- Power substation
- Wellhead, watermill
- Well, tank
- Mine shaft
- Open pit mine or quarry
- Horizontal control station
- Bench mark: monument
- Bench mark: non-monument
- Spot elevations in meters
- Leaves, rivers, dikes
- Bluffs, cliffs
- Woodland
- Scattered trees, scrub
- Vineyard; Orchard, plantation
- Intermittent lake: Dam; Earthen; Masonry
- Stream: Perennial; Intermittent
- Marsh, swamp
- Small falls; Large falls
- Small rapids; Large rapids



**ELEVATIONS IN METERS**

**CONTOUR INTERVAL 20 METERS**

**CONVERSION GRAPH**

(1 meter = 3.28 feet)

Meters	Feet
1800	5905
1700	5577
1600	5249
1500	4921
1400	4593
1300	4265
1200	3937
1100	3609
1000	3281
900	2953
800	2625
700	2297
600	1969
500	1641
400	1313
300	985
200	657
100	329
0	0

**ELLIPSOID** CLARKE 1866  
**GRID** 1000-METER UTM ZONE 13 (BLACK NUMBERED LINES)  
**PROJECTION** TRANSVERSE MERCATOR  
**VERTICAL DATUM** NATIONAL GEODETIC VERTICAL DATUM OF 1929  
**HORIZONTAL DATUM** 1871 NORTH AMERICAN DATUM  
**CONTROL BY** USGS AND NOS/NOAA  
**PREPARED BY** U.S. GEOLOGICAL SURVEY  
**PUBLISHED BY** DMA/HT 6-90

**FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225**  
 OR RESTON, VIRGINIA 22092

**100 METER REFERENCE**

**SAMPLE 1000 METER GRID SQUARE**

**GRID ZONE DESIGNATION** 13S

**100 METER REFERENCE**

- Read large numbers labeling the VERTICAL grid line left of point and estimate tenth (100 meters) from grid line to point. 12 3
- Read large numbers labeling the HORIZONTAL grid line below point and estimate tenth (100 meters) from grid line to point. 45 6

Example: 123456  
 Example: CH123456  
 Example: 13SCH123456

WHEN REPORTING ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES.

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

**BOUNDARIES**

Socorro County

**ADJOINING SHEETS**

4652 I	4652 IV	4652 I
4652 II	4652 III	4652 II
4651 I	4651 IV	4651 I

Sheet 4652 III falls within N 13 4 1901, 1250,000

**ELEVATION GUIDE**

**SLOPE GUIDE**

PERCENTAGE	DEGREE
10%	5.7°
12%	6.8°
15%	8.5°
20%	11.3°
25%	14.0°
30%	16.7°
35%	19.4°
40%	22.6°
45%	25.7°
50%	28.8°
55%	31.9°
60%	35.0°
65%	38.1°
70%	41.2°
75%	44.3°
80%	47.4°
85%	50.5°
90%	53.6°

**GRID CONVERGENCE** 1°02' (194 METERS) FOR CENTER OF SHEET

**TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH** ADD 6-M ANGLE

**TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH** SUBTRACT 6-M ANGLE

**THIS MAP IS RED-LIGHT READABLE**

USGS 34106-A7-TM-050  
 DMA STOCK NO. V78146523