

Prepared and published by Defense Mapping Agency
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MAP INFORMATION AS OF 1990

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.
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

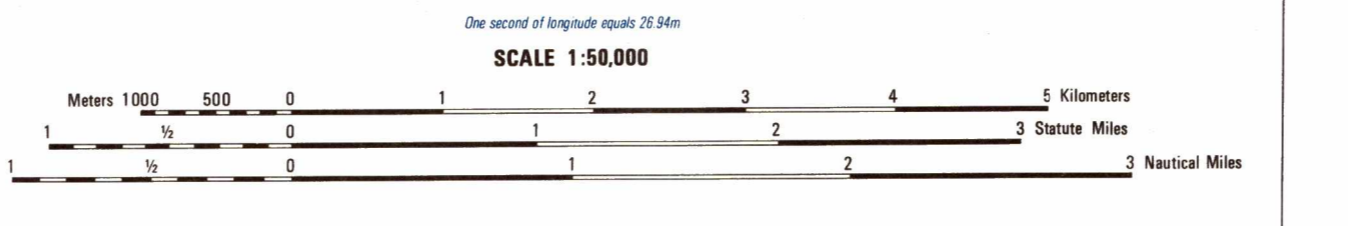
RAILROADS (Standard gauge 1.44m - 4'8 1/2")
Single track
Multiple track
Nonoperating
Railroad station: Location known; Location unknown
Car line

Railroad bridge
Bridges
Tunnels: Highway, Railroad
Beach mark, non-measured
Beach mark, non-measured
Spot elevations in meters: Highest; Normal

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

OBSTRUCTIONS
Elevation of obstruction top above sea level
Elevation of obstruction top above ground level
Power transmission line
Buildings
Structures
Windmill; Watermill
Well; Tank
Church; School
Power substation
Open pit mine or quarry; Mine shaft
Horizontal control station
Fence
Leaves, stilt dikes
Bluffs, cliffs
Woodland
Scattered trees; Sand
Viewshed; Orchard; plantation
Intermittent lake; Dam; Earthen; Masonry
Stream; Perennial; Intermittent
Marsh; swamp
Small falls; Large falls
Small rapids; Large rapids

Single Group
70
70



ELEVATIONS IN METERS
CONTOUR INTERVAL 20 METERS

CONVERSION GRAPH
(1 meter = 3.28 feet)

Meters	Feet	Meters	Feet
1200	3937	1700	5577
1300	4265	1800	5905
1400	4573	1900	6233
1500	4881	2000	6561
1600	5189	2100	6889
1700	5497	2200	7217
1800	5805	2300	7545
1900	6113	2400	7873
2000	6421	2500	8201
2100	6729	2600	8529
2200	7037	2700	8857
2300	7345	2800	9185
2400	7653	2900	9513
2500	7961	3000	9841
2600	8269	3100	10169
2700	8577	3200	10497
2800	8885	3300	10825
2900	9193	3400	11153
3000	9501	3500	11481
3100	9809	3600	11809
3200	10117	3700	12137
3300	10425	3800	12465
3400	10733	3900	12793
3500	11041	4000	13121
3600	11349	4100	13449
3700	11657	4200	13777
3800	11965	4300	14105
3900	12273	4400	14433
4000	12581	4500	14761

PROJECTION
TRANSVERSE MERCATOR
GRID: 1,000 METER UTM ZONE 13, GEODETIC REFERENCE SYSTEM 1983 ELLIPSOID (BLACK NUMBERED LINES)
1,000 METER UTM ZONE 13, CLARE 1983 ELLIPSOID (BLUE NUMBERED LINES)
HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983
VERTICAL DATUM: MEAN SEA LEVEL
Reprinted by NIMA 11-00

COORDINATE CONVERSION NAD 83 TO NAD 27
Grid: Add 48 m. E., Subtract 201 m. N.
Geographic: Subtract 1.7' Long.; Subtract 0.8" Lat.

100 METER REFERENCE
1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenths (100 meters) from grid line to point. 43.8
2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point. 45.8
Example: FN123456

WHEN REPORTING ACROSS A 100,000 METER LINE PREFIX THE 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES.
Example: FN123456

WHEN REPORTING ACROSS THE GRID ZONE DESIGNATION AREA PREFIX THE GRID ZONE DESIGNATION.
Example: 13RNF123456

BOUNDARIES
TEXAS
Brewster County

ADJOINING SHEETS

5243 IV	5243 I	5243 IV
5243 III	5243 II	5243 III
5242 IV	5242 I	5242 IV

ELEVATION GUIDE

SLOPE GUIDE

PERCENTAGE	DIGREES
1%	5.7°
2%	11.3°
3%	17.0°
4%	22.6°
5%	28.2°
6%	33.8°
7%	39.4°
8%	45.0°
9%	50.6°
10%	56.2°
11%	61.8°
12%	67.4°
13%	73.0°
14%	78.6°
15%	84.2°
16%	89.8°
17%	95.4°
18%	101.0°
19%	106.6°
20%	112.2°

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

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

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

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

THIS MAP IS RED-LIGHT AND BLUE/GREEN LIGHT READABLE

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