

Nasworthy Dam and Lake Nasworthy

OWNER

City of San Angelo.

ENGINEER (Design)

Floyd & Lochridge, Dallas, Texas.

LOCATION

On the South Concho River in Tom Green County, 6 miles southwest of San Angelo.

DRAINAGE AREA

3,833 square miles, of which 3,724 square miles is above Twin Buttes Dam.

DAM

Type	Earthfill
Length (including spillways)	5,480 ft
Height	50 ft
Top Width	20 ft

SPILLWAY (emergency)

Length (first section)	300 ft
Crest elevation	1,879.1 ft above msl
Length (second section)	600 ft
Crest elevation	1,880.1 ft above msl

SPILLWAY (service)

Type	Concrete ogee
Length (net)	375 ft
Control	15 tainter gates, each 25 by 18 ft
Crest elevation	1,855.3 ft above msl

SPILLWAY (service auxiliary)

Length	25 ft
Crest elevation	1,869.2 ft above msl
Control	1 automatic collapsible gate

OUTLET WORKS

Type	2 sluice gates, each 36-inch diameter
Invert elevation	1,836.0 ft above msl
Type	1 pipe, 24-inch diameter
Invert elevation	1,860.0 ft above msl

STATE AUTHORIZATION

Permit No. 1120 (Application No. 1196, filed March 11, 1929) December 17, 1941, was issued to West Texas Utilities Company.
 Permit No. 1446 (Application No. 1551 April 9, 1948, to West Texas Utilities Company authorized enlargement to increase capacity to 12,500 acre-feet with annual diversion rights of 25,000 acre-feet retained. The city of San Angelo purchased the property and water rights May 24, 1950.

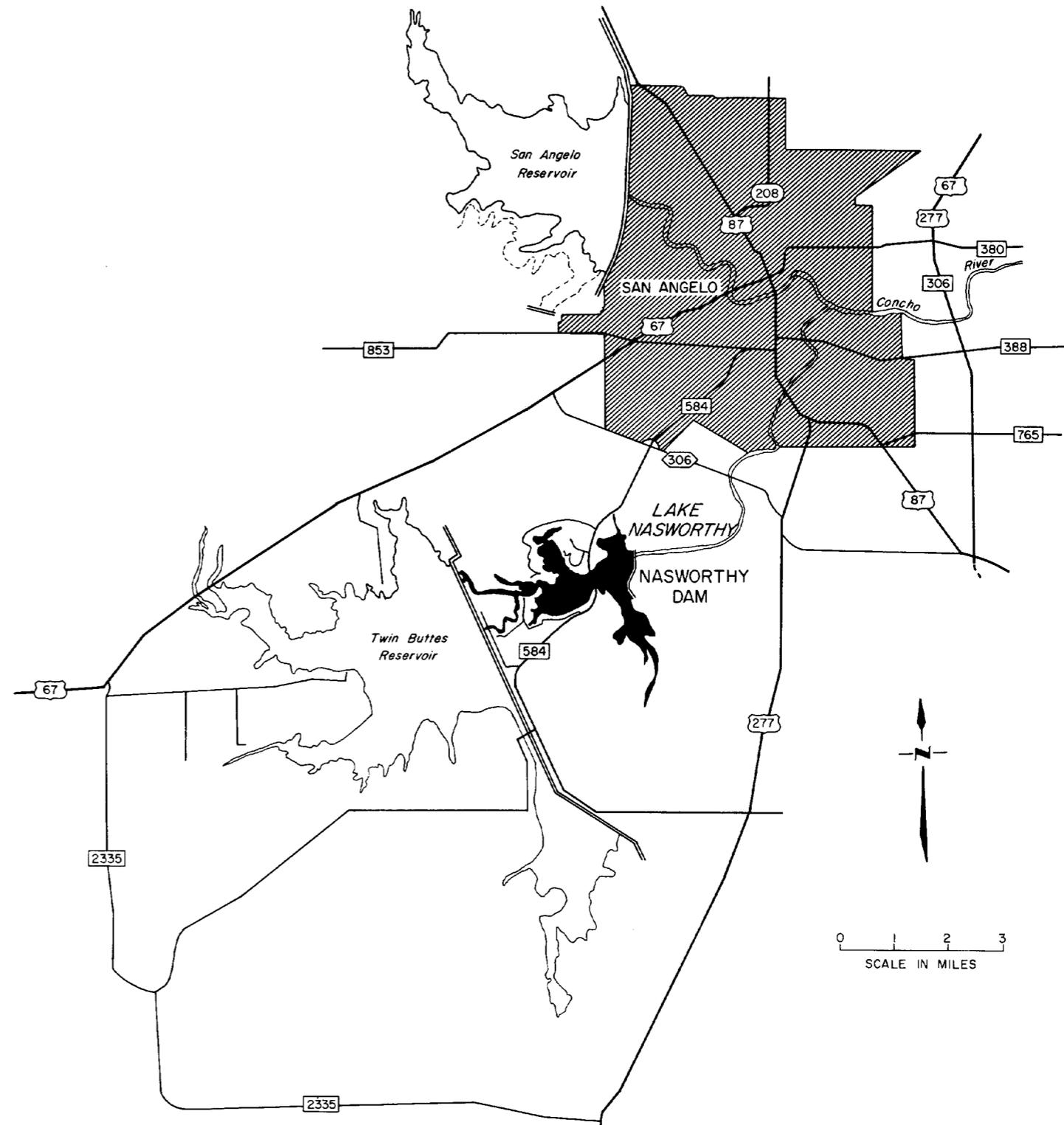
RESERVOIR DATA (Based on surveys by the U.S. Soil Conservation Service 1938 and 1953)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	1,883.5	-	-
Crest of 600 ft spillway	1,880.1	-	-
Crest of 300 ft spillway	1,879.1	27,470	-
Top of tainter gates	1,873.2	13,990	-
Top of automatic gates	1,872.2	12,390	1,596
Crest of automatic gates	1,869.2	8,210	1,210
Invert to irrigation canal	1,867.5	6,370	-
Invert of 24-inch pipe	1,860.0	1,580	350
Crest of service spillway	1,855.3	435	160
Invert of low flow outlets	1,836.0	0	0
Usable storage	-	12,390	-

GENERAL

Construction started	January 1929
Impoundment of water began	March 28, 1930
Dam completed	June 1930
General contractor	Callahan Construction Company
Estimated cost	\$376,600

Information courtesy of the city of San Angelo



NASWORTHY DAM AND LAKE NASWORTHY