

ALTUS AFB, OK UTILITY SYSTEM DESCRIPTIONS

System Descriptions: The following information provided is only an estimate of the size, scope and general description of the electrical, natural gas, potable water and wastewater utility systems at Altus AFB and is subject to change.

Electrical: Service is provided to the base via a single 69 kVA transmission line which is switched by an on-base station to six distribution circuits. The distribution system consists of approximately 153,000 linear feet of underground service and an estimated 60,000 linear feet of overhead service.

Natural gas: Gas is supplied to the base via a single 8-inch coated steel supply line. The cantonment area and housing areas are separately metered and on separate looped distribution systems, but are connected by valves to be used if necessary. System pressure is maintained at an average of approximately 40 psi, with seasonal adjustments for changes in demand. A great majority of the distribution system consists of polyethylene piping with is considered to be in good to excellent condition.

Potable water: Water is supplied by the City of Altus via one 16-inch and one 10-inch main. The main base and housing areas are metered separately for monitoring purposes. The distribution system consists of 85% polyvinyl chloride pipe, with the remaining piping consisting of transite, cement-asbestos, and cast iron lines. Potable water is stored in two elevated storage tanks with a total capacity of 750,000 gallons. Maximum system pressure is maintained at approximately 55 to 58 psi. The present distribution system is not a loop-type system, and three dead-end lines require monthly flushing.

Sanitary Wastewater: Wastewater is collected and discharged into the City of Altus sanitary sewer system for treatment. The on-base collection system is in poor overall condition. Most of the original system of predominantly concrete or vitrified clay pipe has deteriorated over the past 40-plus years due to highly corrosive soil conditions. The collection system includes three lift stations, two of which have been recently renovated.

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