
SECTION 2

SECTION 2 DESCRIPTION OF THE UTILITY

2.1 OVERVIEW

The Village of Oakwood is a village in Oakwood Township, Vermilion County, IL. According to 2010 census, the Village has a total land area of 0.93 square miles. The population in the Village is approximately 1,700, from approximately 713 customers.

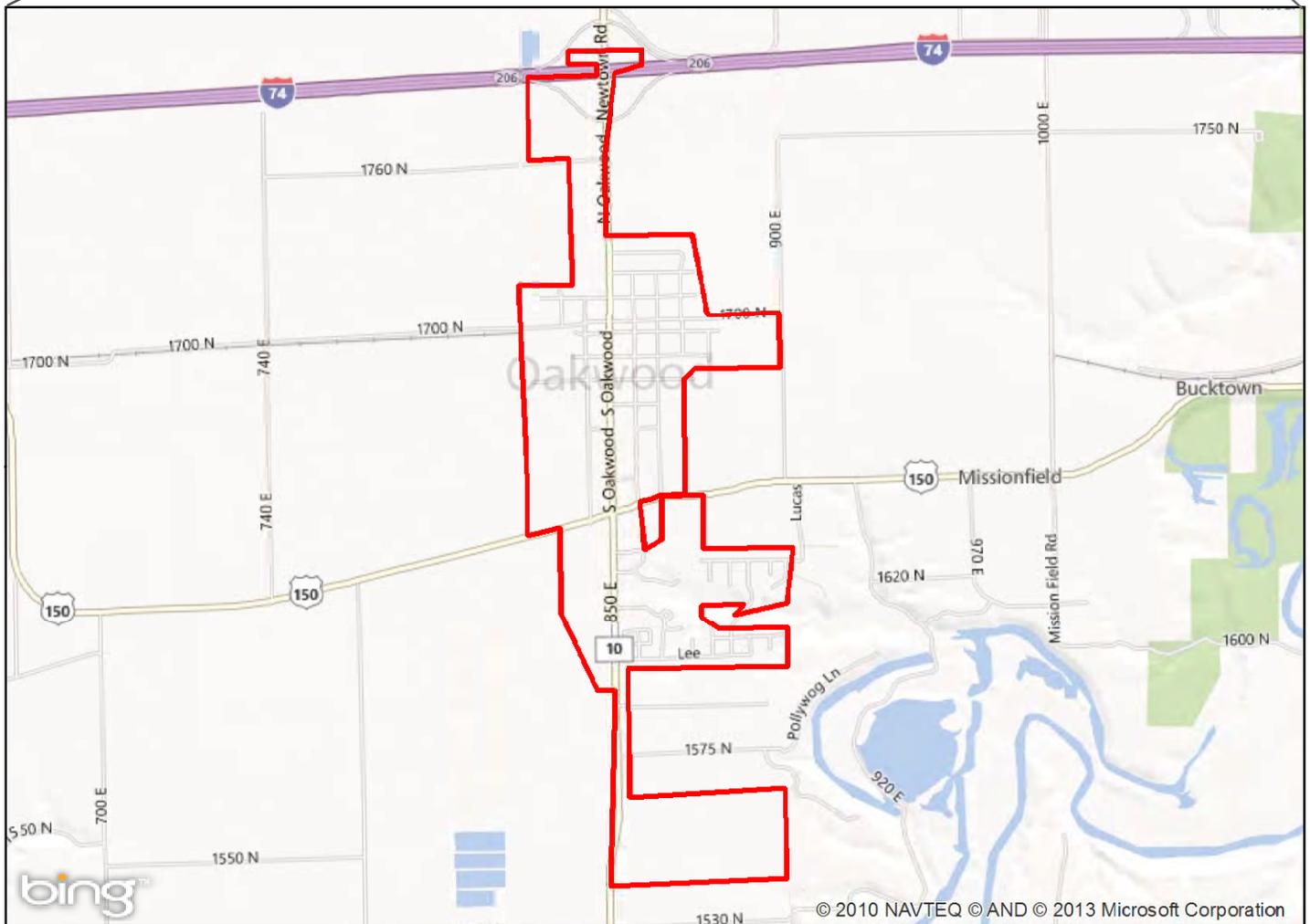
The Village provides potable water and sanitary sewer service for its residents. **Figure 2-1** shows the location of the Village and the service area.

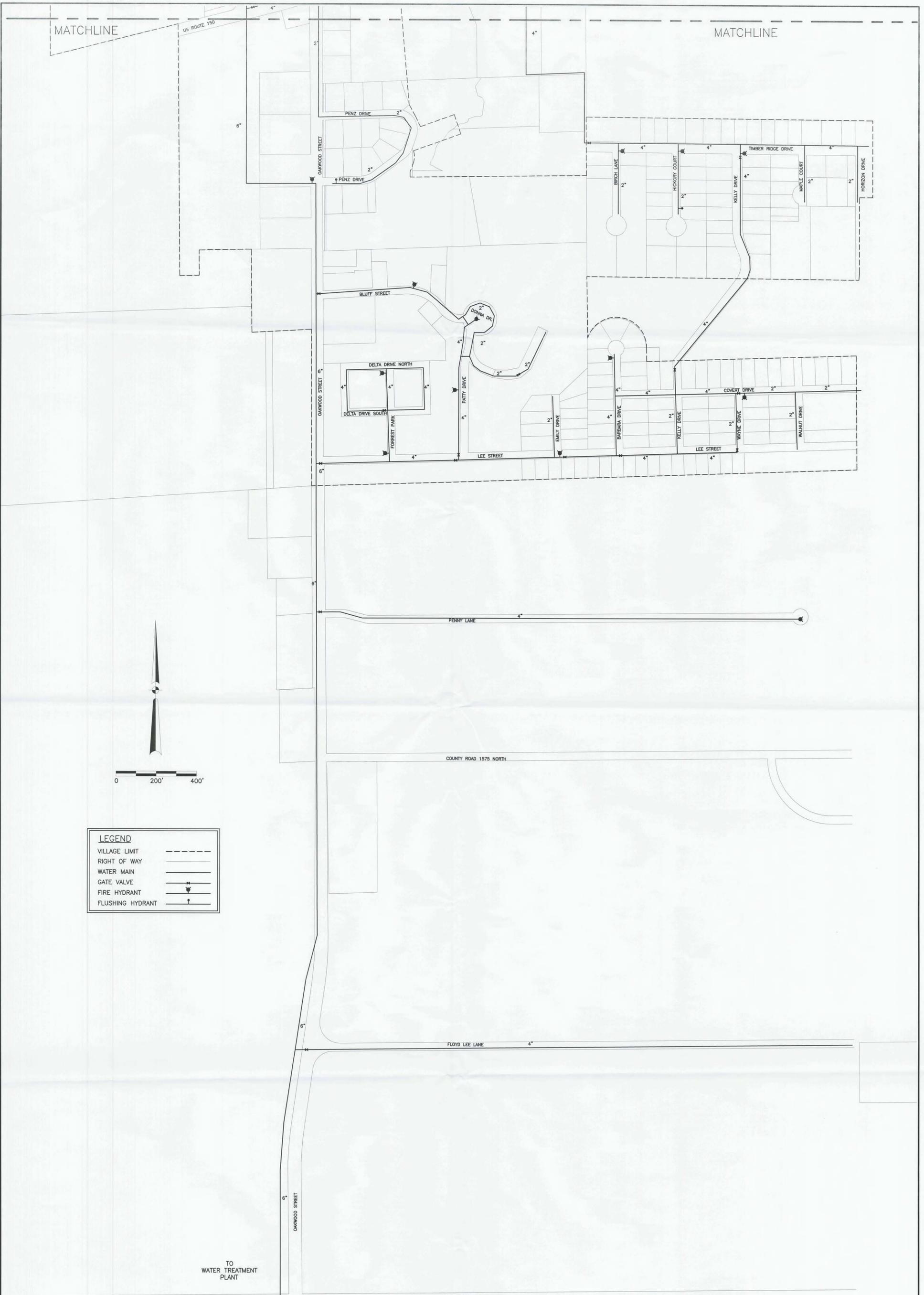
GAI personnel inspected the Utility on June 10, 2013 and the inspection pictures are attached in **Appendix B**.

2.2 WATER FACILITIES

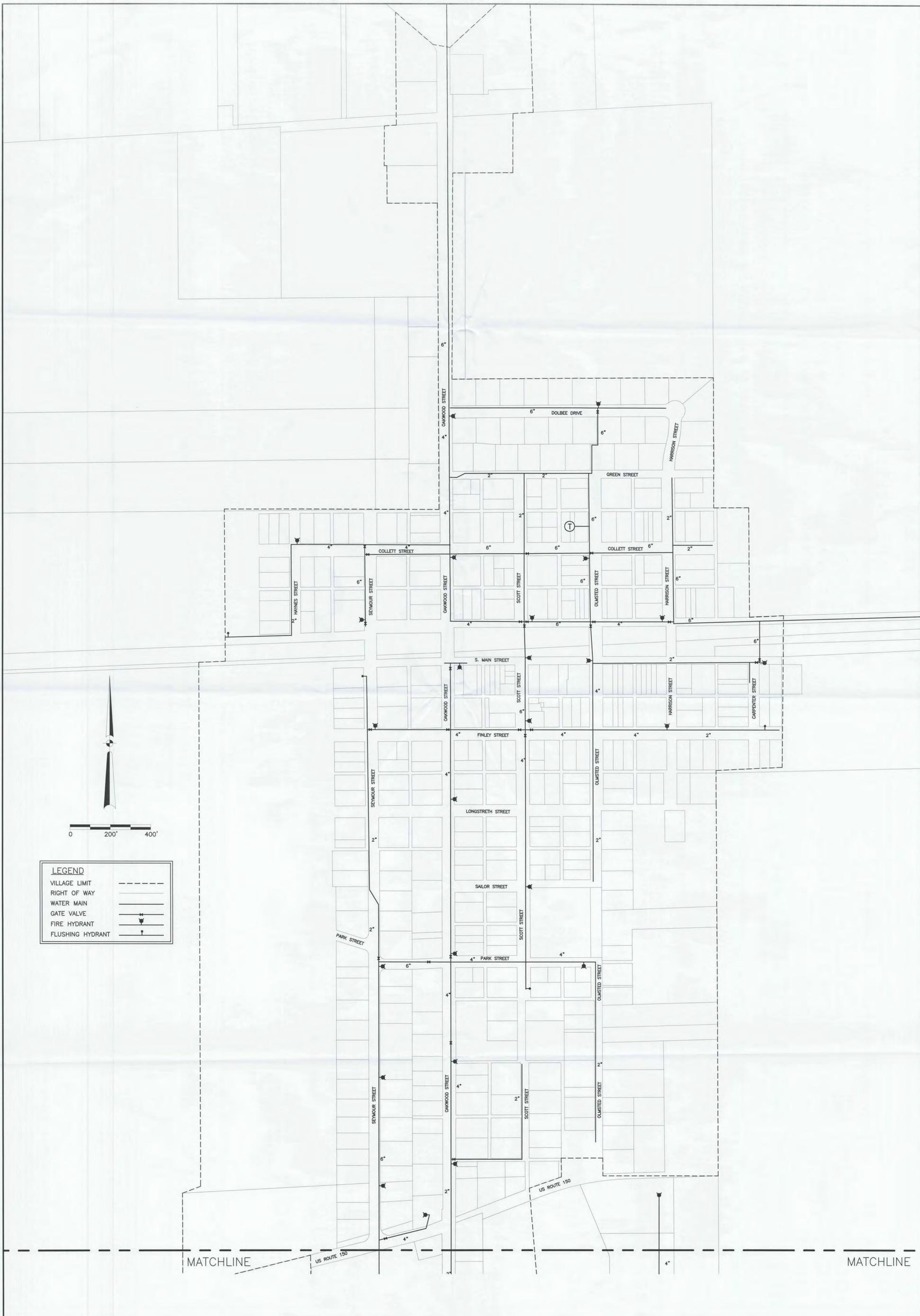
The water system has a surface water treatment plant with a 100 KW generator set on-site and 150,000 gallons of on-site storage (110,000 gallon ground storage tank and a 40,000 gallons clear well), along with associated buildings. The water treatment plant has a capacity of 0.5 million gallons per day (MGD). The raw water intake of the water treatment plant is on the Salt Fork River and it is installed with a 350 GPM river pumping station.

The distribution system of the Utility consists of 59,123 linear feet (11.20 miles) of 2-inch to 6-inch water mains, 43 water valves, and 42 fire hydrants. There is a 75,000 gallon elevated storage tank and 713 customer connections and service meters. The annual average daily flow is approximately 130,000 GPD. **Figure 2-2A** and **2-2B** show the water system layout.





LEGEND	
VILLAGE LIMIT	-----
RIGHT OF WAY	=====
WATER MAIN	—————
GATE VALVE	——— ———
FIRE HYDRANT	——— ———
FLUSHING HYDRANT	——— ———



LEGEND	
VILLAGE LIMIT	---
RIGHT OF WAY	—
WATER MAIN	—
GATE VALVE	⊕
FIRE HYDRANT	⊙
FLUSHING HYDRANT	⊕

0 200' 400'

MATCHLINE

MATCHLINE

2.3 WASTEWATER FACILITIES

The wastewater system consists of a stabilization lagoon, two (2) wastewater pump stations, a sewer collection pipe network and 671 customer connections and services. The stabilization lagoon has an annual average daily capacity of 220,000 gallons per day (GPD) or maximum daily capacity of 550,000 GPD with slow sand filtration and surface water discharge. The annual average daily flow is approximately 120,000 GPD. The McDonald's pump station is located at the McDonald's on Oakwood Road and contains two (2) 20 hp wastewater pumps. The main pump station is located at Kelley Drive with two (2) 400 gallon per minutes (GPM) 50 hp pumps. Both pump stations have a 100 KW auxiliary power generator set. The collection system consists of 44,143 LF of 8-inch to 12-inch gravity sewers, 219 manholes, and approximately 10,000 LF of 4-inch and 6-inch force main. The Utility has 671 customer connections and services with annual average daily flow of approximately 120,000 GPD. **Figures 2-3A and 2-3B** show the wastewater system layout.