

AVAILABLE WATER STORAGE

The District has available two steel water storage tanks. A 100,000 gallons steel elevated (88 feet) storage tank constructed in 1923, and a 2 mg above ground steel reservoir, operational since 1982. The 100,000 gallon tank is located adjacent to Pump No.s 2 and 4, with an overflow elevation of 2,121.5 feet. The 2 mg tank is located a half mile north of Lincoln and Freya, off Gerlach Road. It is connected to the District system and pumping facilities by 16-inch and 14-inch transmission mains. The 2 mg tank has an overflow elevation of 2,186 feet, providing a static pressure of about 80 psi. The District's 2 mg reservoir overflow closely matches the City of Spokane's North Hill reservoir hydraulic profile. The District's 0.1 mg reservoir is available for emergency backup and standby, but is not presently on line due to the elevation differences with the 2 mg reservoir.

Existing Water Distribution system

The District's system consists of 13.00 miles of pipe, in sizes ranging from 2 inches to 16 inches. Approximately 31% of the mains in service now are lead jointed steel pipe installed in 1923. These pipes are generally in bad condition and are now being replaced due to leaky joints. The remaining pipe material is mostly steel with some galvanized and cast iron. Recent changes in the District standard specifications require ductile iron pipe in 8-inch and larger water main installation.

The District had a total of 700 services in 1975, of which 559 were located west of the BNRR tracks and 141 were located on the east side. Today there are about 737 services, an increase of about 5% in 16 years. Until February 26, 1980, the east side was supplied totally by a single 8-inch main located in Wilding Avenue. As of that date, a new 14-inch steel main in Lincoln Road under the railroad tracks became operational.

North Spokane Irrigation District No. 8

Unfortunately North Spokane Irrigation District #8 wells are all within 150' of each other at 7305 N. Regal. There is a private well at 8000 N. Regal drilled by and was the residence of Fisher Drilling Company. The well sits on a two acre site and has a 12" casing. The well has been flowed at 2000 GPM and the new owners will negotiate if the need arises.

The District is bordered on three sides by the City of Spokane. The District has contacted the City of Spokane concerning an intertie. In the event of well contamination, the City could have an emergency intertie in place within 24 hours. The District's two million gallon reservoir could be abandoned and because of elevations, the district could be easily serviced by the City of Spokane.

EXISTING SYSTEM FACILITIES

EXISTING WATER SYSTEM FACILITIES

Sources of Supply.

The District's sources includes four pumps in two well fields. Pump No's. 2 and 4 are located in the west field and Pump No.'s 1 and 3 in the east well field. The wells have a total power of 500 hp and a total output of 4,025 gpm. Well No 2 is presently on emergency standby. The well capacities are not known, however, it is assumed to exceed the 4,025 gpm pumping limit. Well depths range from 255 feet to 274 feet with static water level at 190 feet. The west well field is located just adjacent the District's office west of Regal Avenue and the East well field east of Regal. Both pumps at each well field pump to a common manifold and then to distribution. Flow meters are provided for each pump.

The individual well and pump statistics are presented in Table 1.1.

TABLE 1.1
SUMMARY OF SOURCE PUMPING CAPABILITIES

	No. 2 Pump (West Well) (Field)	No. 4 Pump (West Well) (Field)	No. 1 Pump (East) (Well Field)	No. 3 Pump (East) (Well Field)
Elevated Top Well Head	2,032.7'	2,031.5'	2,031.3'	2,031.3'
Well Depth	255'	274'	258.5'	257'
Well Diameter	96"	16"	7'	7'
Casing Diameter	24"	16"	16"	16"
Static Level	188'	190'	190'	190'
Motor Horsepower	150	150	100	100
Pump Output (gpm)	1,400	1,200	600	850
Drawdown-Individually	13'	10'	6'	6'

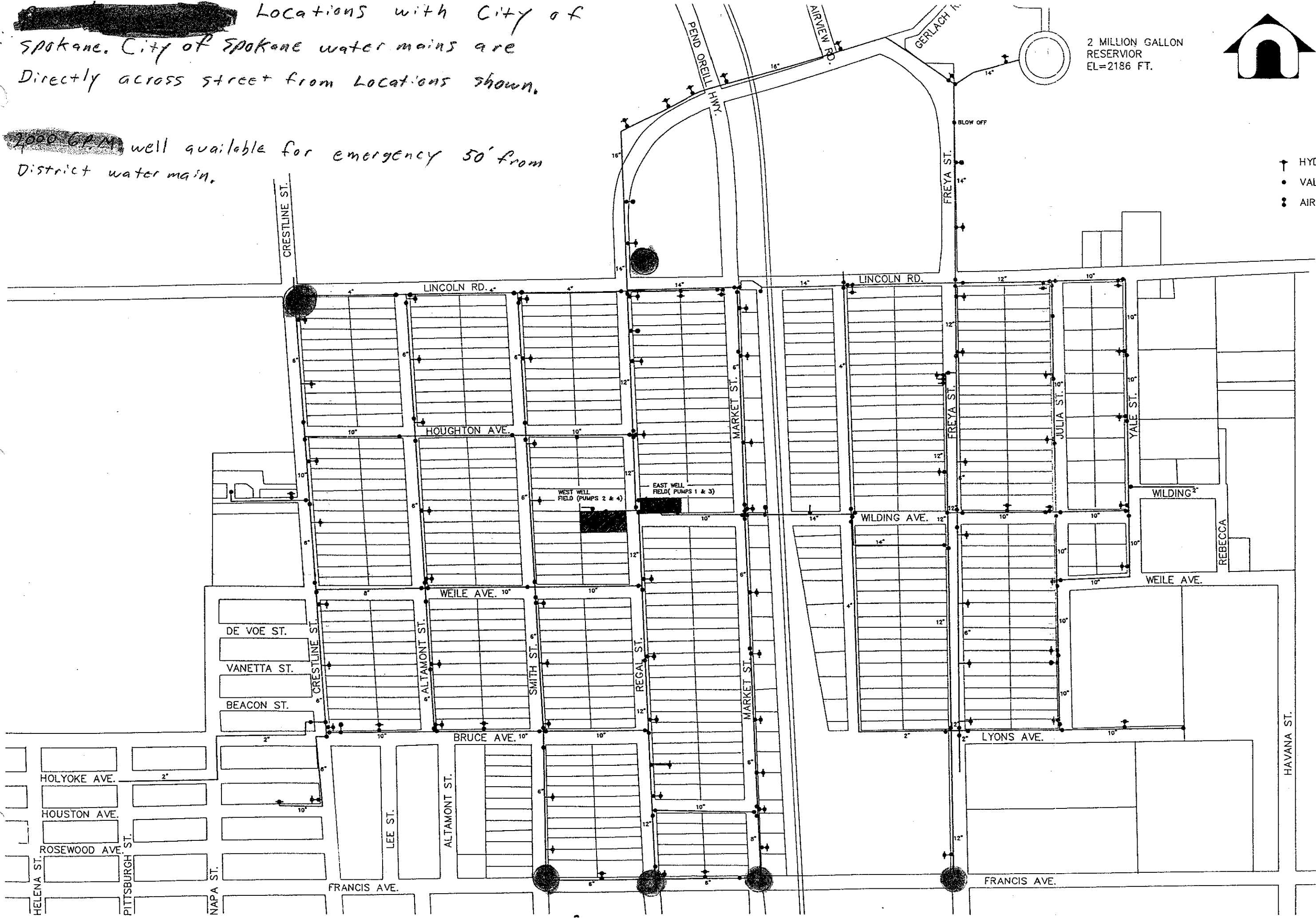
Locations with City of
Spokane. City of Spokane water mains are
Directly across street from Locations shown.

2000 G.P.M. well available for emergency 50' from
District water main.

2 MILLION GALLON
RESERVOIR
EL=2186 FT.



- ↑ HYDRANT
- VALVES
- ⋈ AIR VALVE



NORTH SPOKANE IRRIGATION DISTRICT #8
EXISTING DISTRIBUTION SYSTEM