

ESTIMATE No. 5.

Filtered Supply from Indian Bay, Shoal Lake.

Wood Stave Pipes.

Water delivered by gravity to a reservoir in Winnipeg and after filtration pumped into street mains.

Three pipe lines with capacity of 23,000,000 gallons each; one line to be built immediately, the second when the average daily consumption reaches 17,000,000 gallons, and the third when it reaches 33,000,000 gallons.

Each pipe line consists of three sections as follows:

22.6 miles of 64-inch pipe.

27.0 miles of 54-inch pipe.

43.0 miles of 48-inch pipe.

Intake works consist of submerged pipe extending out one and one-half miles into Indian Bay, with protective crib at end and gate-house with screen gates at shore near mouth of Falcon River.

Pipe lines provided with gates, air-valves, standpipes, blow-offs and manholes.

Equipment at McPhillips Street station to consist of coagulating basins, rapid filters, filtered-water reservoir and high-duty pumping engines of the triple expansion, condensing, crank-and-fly-wheel type, to pump the filtered water into the street mains.

COST OF CONSTRUCTION

Items	For an Average Daily Supply of			
	12,000,000 gallons	24,000,000 gallons	36,000,000 gallons	48,000,000 gallons
Land and right-of-way	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
Intake works	65,000	65,000	95,000	95,000
Pipe lines	2,549,000	5,187,000	7,907,000	7,907,000
Coagulating basins	65,000	65,000	130,000	130,000
Filters	250,000	500,000	750,000	1,000,000
Filtered water reservoir	270,000	270,000	350,000	350,000
Pumping station in Winnipeg ..	370,000	645,000	920,000	1,200,000
Keepers' houses	20,000	20,000	20,000	20,000
Telephone lines	18,000	18,000	18,000	18,000
Add 15%	\$3,672,000	\$6,795,000	\$10,215,000	\$10,745,000
Totals ..	551,000	1,019,000	1,532,000	1,612,000
	\$4,223,000	\$7,814,000	\$11,747,000	\$12,357,000

ANNUAL COST OF OPERATION AND MAINTENANCE

Items	For an Average Daily Supply of			
	12,000,000 gallons	24,000,000 gallons	36,000,000 gallons	48,000,000 gallons
Interest	\$190,000	\$352,000	\$529,000	\$556,000
Depreciation	33,000	64,000	84,000	104,000
Filtering	44,000	88,000	131,000	175,000
Pumping	50,000	100,000	150,000	200,000
Maintenance of pipes, keepers' wages, etc.	21,000	39,000	63,000	63,000
Totals ..	\$338,000	\$643,000	\$867,000	\$1,098,000