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pressure on pumps by about ten pounds. Year by year, as the consumption increased, the pressure would increase.

We estimate the cost of the above described force main as follows:

(19)	36-inch main from Pumping Station to Ottawa street, 11,200 feet; 36-inch on Ottawa street to Barton		
	street, 1,700 feet, at \$10.00	\$129,000	611
(20)	owinch of Ottawa street, from Barton to Cannon streets		
	1,500 feet; thence westerly along Cannon, Senator		
(21)	and Wilson streets, 12,300 feet, at \$7.50	111.000	010
	6,000 feet, at \$5.75	34,500	4
(22)	Contingencies, o per cent.	13,500	
(23)	Engineering and superintendence, 3 per cent,		
(=0)	Total	8,000-1	1)

Total ..... \$296,000 m

This new force main, with the Catherine street and Charlton avenue branches, will practically duplicate the capacity of the three existing force mains.

For some years there will be an extension of the Sewerage System in the eastern part of the City, necessitating tunnelling under or excavating near the existing force mains, at some points in tock.

Notwithstanding the fact that all precautions may be taken to prevent accidents, there is a possibility of such occurring. The proposed new main laid along an independent route, more or less remote from the existing mains, would ensure a prever service if one or more of the present mains were broken or seriously damaged.

**Submains.** To improve the fire service in the central part of the City, and to provide a domestic supply to the rapidly growing southwestern suburbs, we would recommend that the following submains be laid:

(a) Lottridge street, from Senator street to King street, 20-inch 200 ft.
(b) Gore street, from Cathaerine street to Janes st.,

We estimate the cost of these proposed submains as follows:

(25) (26)	Lottridge street, $300$ ft. of $20$ -inch, at $$6,00$ Gore and Vine streets, $2,500$ ft. of $18$ -inch, at $$3.75$ Main street west, $4,300$ it. of $20$ -inch, at $$4.50$ Markland street, $2,700$ ft. of $16$ -inch, at $$3.00$	9,375 00
(29) (20)	Contingencies, 5 per cent	<b>38,625</b> 00 1,875 00 1,500 00
	Total	\$12.000 00