Council Chamber, Ann Arbor, Mich., Feb. 18, 1918. Regular Session.

Meeting called to order by President. Present: Ald. Heusel, Sugden, Mayer, Huss, Andres, Henderson, Donnelly, Markey. At this rart of the roll call, President Reichert very feelingly addressed Council relative to death of Ald. Isaac Lyman Sherk, and announced the appointment of committee on resolutions as follows: Ald. Sink, Lutz and Markey. Ald. Sink presented the following resolutions, the Council standing during the reading:

Resolutions.

To the Honorable, the Common Council, Ann Arbor Michigan: Gentlemen-Since the last meeting of this body, the Angel of Death has again visited us, and has called home one of his faithful servants, Ald. Isaac Lyman Sherk, who, for more than a dozen years, has been a member of this body, as a representative of the Fifth ward. During years Alderman Sherk has given unsparingly of his time and energy in order that the City in which we live might be made better and greater. Through years of experience, with impartial and ripe judgement, his counsel has always valuable. been Firm and strong in standing for the principles which he believed to be right, he worked untiringly, but was always ready and willing to consider and to listen to the opinions of others and to yield his point whenever new added information showed that another course of action would be better for the welfare of the community which he loved so well.

Aside from his activities as an officer of our City, he was a man of upright and honorable character, and those splendid personal possessed traits, which caused him to be respected and loved by all who knew

In his death, this Council has lost its oldest member in point of years of service, and one whose civic and personal life might well be emulated by others. We who have worked by his side and have known him so intimately, are grieved at his untimely death, and realize fully the loss which the City of Ann Arbor has sustained. However, in our grief, we are not unmindful of the greater grief and sorrow which surrounds his afflicted family, for he was a splendid husband and father.

individually and on behalf of the citizens of our city, extend to the sorrowing family our heartfelt sympathy, and with it an expression of sincerest gratitute for the splendid services which he ever rendered, and the devotion with which he performed the duties which devolved upon him.

It is therefore resolved, that these resolutions be made a part of the official proceedings of this body; that they be published in the Times News; and that a copy be sent to the bereft family as a token of love and devotion, and as a permanent memorial of the faithful performance of his many public and private duties.

Respectfully submitted, CHARLES A. SINK. GEORGE LUTZ. J. W. MARKEY.

Roll call was resumed: Present. Ald. Hauser, McGregor. Freeman. Lutz, Sink, Pres. Reichert 14.

Ald. Sink moved the adoption of the resolutions, which were adopted by unanimous vote.

Minutes of previous meeting approved.

Communications.

From the Mayor-

Feb. 16, 1918.

To the Honorable, the Common Gentlemen-I hereby an-Council: nounce the appointment of Joe Jedele for special police service at the University, and without pay from the city. Respectfully submitted, Ernst

Wurster, Mayor. Ordered on file.

From Board of Public Works.

Moved by Mr. Arnet, that we request Council to authorize the Board to purchase in open market one car of paving brick, and one car of cement.

(Council action)

Moved by Ald. Lutz, that request of Board be concurred in.

Adopted by the following vote: Mayer, Yeas, Ald. Heusel, Sugden, Huss, Andres, Henderson, Donnelly, Markey, Hauser, McGregor, Freeman, Lutz, Sink, Pres. Reichert, 14. Nays,

Communication received from Edward N. Hurley, chairman United States Shipping Board, nouncing plan for immediate organization of U.S. Shipyard Volunteers of the Public Service Reserve, and explaining the necessity for artisans to register, and so engage themselves, It is but fitting, therefore, that we when the need develops, to work in the shipyards at the wages there prevailing. In the meantime they are expected to retain their present positions. "The whole war depends upon ships—ships depend on labor, and Hopey Linds against the salary to the salary and the salary to the salary ships—ships depend on labor, and labor depends upon the ability of this Board, through an adequate Reserve, to supply the yards."

Mayor Wurster explained the necessity of skilled mechanics to be in readiness to help the government in

the shipbuilding program.

Petitions.

Petition of Leroy Waterman, et al, asking Council to remit the taxes assessed on the Baptist Guild House, amounting to \$248.68, received.

Rev. J. M. Wells informed Council

that up to this time the property was

exempt.

Moved by Ald. Markey, that petitions be granted, and the City Clerk draw warrant payable to City Treasurer, for amount of taxes, \$248.68, on the contingent fund.

Adopted by the following vote: Yeas, Ald. Heusel, Sugden, Mayer, Huss, Andres, Henderson, Donnelly, Markey, Hauser, McGregor, Freeman, Lutz, Sink, Pres. Reichert, 14. Nays, rone.

Committee Reports. FINANCIAL REPORT.

Fire Fund	
Chas. Andrews, salary\$	60.50
Eugene Williams, salary	46.60
Ralph Edwards, salary	46.60
Henry McLaren, salary	44.20
Jacob Gwinner, salary	44,20
Arthur Ciark. salary	42.35
Harley Wise, salary	42.35
Martin Noll, salary	42.35
Geo. Isbell, salary	42.35
Frank Markey, salary	42.35
Thomas Shamp, salary	42.35
Herman Kruse, salary	42.35
Emil Dammin, salary	42.35
Mat. Heininger, salary	42.35
Benj. Zahn. salary	42.35
Raymond Gillespie, salary	42,35
Henry Maier, salary	36.30
Chas. Carroll, salary	27.85
Frank Kapp, salary	27.85

Fire Fund total salaries 1/2 month	
February\$	799.95
Police Fund	
Thos. O'Brien, salary\$	55.00
Wm. Aprill. salary	42.35
Gustave Mayer	42.35
Ed. Blumhardt, salary	42.35
Marlend Howard, salary	42.35
Emanuel Sodt, salary	42.35
Robert Clark	42.35
Henry Harden	39.30
Fred Sodt, salary	39.30
Clyde Bennett, salary	39.30
Jacob Andres, salary	39.30
Chas. Splitt, salary	39.30
China Character and Character	

Police fund total salaries one-half month January\$505 60

Clarence Brown, salary	
John Volland, salary	
A. E. Hawkes, salary	
Cliff Shetterly, salary	
Louise Malloy, salary Russell Pryce, salary	
Russell Pryce, salary	. 20.00
Total semi-monthly salaries	.\$400.00
Contingent Fund.	
M. C. Ryan, salary one-half month. Engineer Dept.	.\$ 42.35
L. G. Bird. services	.\$ 13.50
L. G. Bird, services	. 10.50
Ben DiPhilippi, services	70
Ben DiPhilippi, services F. Leslie Feiner, services	. 48.00
G. W. Francis, services	. 1.35
Henry Keuhn, services Elsa F. Lutz, services	. 10.50
Elsa F. Lutz, services	. 31.34
James Mason, services	. 19.00
W. B. Russell, services	. 15.50
Adam Schlecht, services	
Clarence Spence, services	. 12.30
E. G. Steinbach, services	. 2.85
Total Engineer Dept	.\$166.29
The Detroit Edison Co., city hal	0 07 00
and clock	.\$ 27.23
washtenaw Gas Co., city hall	60.00
R. L. Polk & Co., directories	. 60.00
N. R. Smith, M. D., analysis R. W. Steere, water	1.80
Geo. Wahr, supplies	7.50
D. F. Woodward, supplies, etc	3.45
Fairbanks, Morse & Co., auto truck	
scales	E10 20
Total supplies, etc	
Total supplies, etc	.\$644.68 5.\$853.32 .\$357.47
Total supplies, etc	.\$644.68 5.\$853.32 .\$357.47 70
Total supplies, etc	.\$644.68 5.\$853.32 .\$357.47 .70 9.88
Total supplies, etc. Contingent Fund total including salary Water Works Fund. Washtenaw Electric Shop, supplies The Mayer-Schairer Co., supplies Standard Oil Co., supplies Geo. Wahr, supplies	.\$644.68 .\$853.32 .\$357.47 . 70 . 9.88 . 7.65
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Total supplies, etc. Contingent Fund total including salary Water Works Fund. Washtenaw Electric Shop, supplies The Mayer-Schairer Co., supplies Standard Oil Co., supplies Geo. Wahr, supplies The Machine Specialty Co., supplie Staebler & Co., supplies C. H. Major & Co., supplies Flower-Stephens Mfg .Co., supplies	.\$644.68 5.\$853.32 .\$357.47 . 70 . 9.88 . 7.65 s 13.75 . 8.88 . 11.00 . 356.80
Total supplies, etc. Contingent Fund total including salary Water Works Fund. Washtenaw Electric Shop, supplies The Mayer-Schairer Co., supplies Standard Oil Co., supplies Geo. Wahr, supplies The Machine Specialty Co., supplie Staebler & Co., supplies C. H. Major & Co., supplies Flower-Stephens Mfg .Co., supplies J. T. Wing & Co., supplies Worthington Pump & Machine Corp supplies	.\$644.68 5.\$853.32 .\$357.47 70 9.88 7.65 s. 13.75 8.88 11.00 386.80 5.25 12.66
Total supplies, etc. Contingent Fund total including salary Water Works Fund. Washtenaw Electric Shop, supplies The Mayer-Schairer Co., supplies Standard Oil Co., supplies Geo. Wahr, supplies The Machine Specialty Co., supplie Staebler & Co., supplies C. H. Major & Co., supplies Flower-Stephens Mfg .Co., supplies J. T. Wing & Co., supplies Worthington Pump & Machine Corp supplies	.\$644.68 .\$853.32 .\$357.47 . 70 . 9.88 . 13.75 . 8.88 . 11.00 . 386.80 . 5.25 . 12.66 . 216.33
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Total supplies, etc. Contingent Fund total including salary Water Works Fund. Washtenaw Electric Shop, supplies The Mayer-Schairer Co., supplies. Standard Oil Co., supplies. Geo. Wahr, supplies. The Machine Specialty Co., supplie Staebler & Co., supplies. C. H. Major & Co., supplies. C. H. Major & Co., supplies. Flower-Stephens Mfg. Co., supplies J. T. Wing & Co., supplies. Worthington Pump & Machine Corp supplies Neptune Meter Co., supplies. Henry S. Platt, supplies. The Detroit Edison Co., supplies. H. J. Abbott, supplies. Fred T. McCumber, insurance. Gardner S. Williams, services, final Water Works Dept., expenses. Total supplies, etc. Harry Warren, labor. Leo Maples, labor. F. Rhodenbecker, labor. J. Nimz, labor.	.\$644.68 .\$853.32 .\$853.32 .\$853.32 .\$857.47 .70 .9.88 .9.88 .11.00 .386.80 .5.25 .12.66 .216.33 .25.65 .3.24 .10.66 .375.87 .739.32 .12.10 .2,197.15 .\$37.50 .37.50 .5.40 .\$86.70

Water Works Fund.

Henry Linde, salary

Clarence Brown, salary

40.00 37.50

35.00

Street Lighting.	
The Detroit Edison Co., light\$1,6	
W. J. Randel, labor\$ E. R. Stoliker, labor	1.39
F R Stoliker labor	15.60
The Mayer-Schairer Co., supplies	1.00
Park Fund total	\$17.99
T C Dind labor \$	1.50
L. G. Bird, labor\$ Joe Davis, labor	.60
Ben DiPhilippi, labor	.70
Emanuel Elsasser, labor	7.20
Emanuel Elsasser, labor	24.00
Jno. Hanselman, labor	25.60
Emanuel Holzapfel, labor	1.78
Sam. Kalmbach, labor	.60
Henry Keuhn, labor	6.67
Matt. Koch, labor	
James Mason, labor	13.00
Adam Schlecht, labor	.75
E. G. Steinbach, labor	19.65
Fred'k Illirich labor	41.50
Martin Walsh, labor	32.90
Jno. Wendland, labor	22.00
Geo. Zeifle. labor	19.38
Chas. Flewelling, team	7.66
Wm. Grayer, team	2.33
Fred G. Hanselman, team	15.33
Carl Rehberg, team	16.33
Claud Young, team	2.33
Jacob Young, team	7.66
Total labor	269.47
Washtenaw Gas Co., coke	33.11
Wm. J. Clancy, sprinkling	78.52
Water Dept., water for sprinkling	155.37
Edw. Hammond, repairs	1.80
The Michigan Daily, printing	2.52
Total sprinkling, etc	271.32
Street Fund total	
Contingent\$	853.32
Fire	799.93
	505.60
Police 2 Water Works 2	,683.85
Street Lighting 1	607.67
Street Lighting 1 Park	17.99
Street	540.79
Total City Funds	000 17

....\$7,009.17 Total City Funds\$7,009.17 Ann Arbor, Mich., Feb. 18, 1918. To the Finance Committee of the Common Council: Gentlemen-I have examined the foregoing accounts against the City of Ann Arbor, and I hereby certify that they are correct to the best of my knowledge.

ISAAC G. REYNOLDS,

City Clerk.

To the Honorable, the Common Council: Gentlemen-Your Finance committee has reviewed the foregoing report. Warn for salaries were drawn Feb. 16, 1918. Warrants recommend that same be approved and that warrants be ordered drawn for the foregoing accounts.

Geo. Lutz, O. R. Mayer, John McGregor,

Finance committee.

Ald. Lutz, moved the adoption of the report, which was adopted by the following vote: Yeas, Ald. Heusel, Sugden, Mayer, Huss, Andres, Henderson, Donnelly, Markey, Hauser, Mc-

Gregor, Freeman, Lutz, Sink, Pres. Reichert, 14. Nays, none.

In the matter of petition of Ben Dithat Philippi, asking assessment against his property for grading of Edward st., be remitted. Ald. Lutz. made oral report that the Finance committee had considered the petition, and recommended that it be not granted.

Ald. Lutz moved adoption of report, which was adopted by unanimous vote

In the matter of petition of the Star Motor Company, asking that the value of gravel taken from Edward st., be credited on assessments for grading of said street. Ald. Lutz made oral report that the Finance committee had given the matter careful consideration, and recommended that petition be not granted.

Ald. Lutz moved adoption of report, which was adopted by unanimous vote.

Special Committee.

Ald. Henderson, chairman of special wood committee, made oral report, that he had taken up the matter of laying in a supply of wood for the coming winter, with the coal dealers, and they preferred not to stock up with wood, so the committee recommended that the city procure supply to be stored at city yards. mittee was given further time.

Officers' Reports.

Ann Arbor, Mich., Feb. 18, 1918. To the Honorable, the Common Council: Gentlemen-I transmit for your further order, valuations in sanitary sewer districts: No. 72. Hamilton, Rose and Sheehan addition; No. 82, Packard st., and Brooklyn ave.; No. 83, Eighth st.; No. 84, Killins' Heights addition.; and No. 85, Eber-White blyd. and Soule blyd., (formerly known as Hiscock blvd.) Respectfully submitted: H. W. Crip-

pen, City Assessor.

By Ald. Lutz: Resolved that Friday, March 1, 1918, be and the same is fixed as the day, 2 p. m. the hour, and the Council room the place, for the review of the assessment rolls of sanitary sewer districts Nos. 72, 82. 83, 84, 85.

Resolved further, that the Clerk do advertise the same according to law.

Adopted by the following vote: Yeas, Ald. Heusel, Sugden, Mayer, Huss, Andres, Henderson, Donnelly, Markey, Hauser, McGregor, Freeman, Lutz, Sink, Pres. Reichert, 14. Nays,

ANNUAL REPORT OF THE WATER WORKS DEPARTMENT

ANNUAL REPORT OF THE WATER WORKS D	EPARTMENT
From Feb. 1st, 1917, to Feb. 1st, 1918—	
Expense Station 1—	
Salaries and supplies	\$ 6,384.76
Expense Station 2—	*
Salaries and supplies	
Fuel, coal, Station 1	2,546.94
Electric power, Station 1	
Fuel, coal, Station 2	3,584.83
Office Expense— Salaries and Supplies	4,153.22
General expense	
Repair, mains	
Repair, service	
Repair, meters	
Repair, Station 1	
Repair, Station 2	
Refunds	
Insurance	
Miscellaneous charges	1,006.29
m is a	***************************************
Total	\$40,480.06
Water Rates, Flat—	
Hydrant, etc.	\$60,593.18
Water rates, meter	
Water, mason work	
Tap account	
Meter rental	
Miscellaneous charges	
Miscellaneous charges	
Total	\$94.090.94
Operating expenses\$40,4	
Interest on bonds	
Interest on extensions	
Interest on Depreciation fund	327.77
Depreciation	672.00 - 68,390.18
Net profit	
Value added to Plant, 1917-	
Construction\$	14,009.09
Construction, 16" main	
Construction, service	
Construction, Station 1	7,088.86
Construction, Station 2	850.71
New meters	1,356.04
Total	89 309 25
Less cash received for old iron and brass	428.14
-	
Balance	88,881.11
Value added to plant, 1914\$	
Value added to plant, 1915	21,233.28
Value added to plant, 1916	46,657.34
Value added to plant, 1917	88,881.11
m)	100 070 00
Total	
Original cost\$	450,000.00
Cost of plant, 1918\$	632 356 60
Income—	552,655.00
1914	80,489.45
1915	88,045.44
1916	95,591.91
1917, income less on account of reduction in	
price of sprinkling and curtailment of hours,	94,090.94

	Cash on	han	d in	dra we	2r				\$ 9	810 0	1	
	Overdra											
	Total co	st of	16" r	nain	paid f	or out	of re	venue	95.8	819 3	8	
	Number							· chiac		0.0	70	
	For flat							and				
									165 40	03 41	1	
	Number											
	Total nu											
	Number	flat	rate o	consu	mers			1	, 110,2	1 42	9	
	Number	met	ers in	11Se						43		
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mı 6 11	New hy									•	3	
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	upied by											
	h additio											
	bath tub											
For eac	h additio	nal b	ath ti	ıb								1.00
For one	water cl	oset ((self-c	losing	g) and	wash	bowl	with f	faucet.			3.00
For eac	h additio	nal c	loset									1.00
Sprinkli	ing, per s	easor	n			<i>.</i> .						5.00
	lowing ar											
Less tha	an 1,000	galloi	ns per	day					\$.20	per 1	,000
1.000 to	3,000 ga	llons	per d	lay.						.15	per 1	.000
3.000 to	10,000 g	allon	sper	day .						.10	per 1	.000
0,	-, 0		• • • • • • • • • • • • • • • • • • • •	ME	TERS	IN U	JSE				•	
Kin	nd Meters						Sizes					
Kin	nd Meters		3/4 ''	1"	1 1/4 '	1 1/2 "	Sizes	3"	4''	5"	6'', T	otal
		5/8 ''	3/4 '' 4 2	1'' 39	1 ¼ ' 1	1 ½" 5	Sizes 2''	3"	_			otal
Crown		. 31	42	39	1	5	2'' 18	3"	5		1	142
Crown Trident		5% '' . 31 . 29	$\begin{array}{c} 42 \\ 42 \end{array}$	$\begin{array}{c} 39 \\ 15 \end{array}$	1	5 8	2'' 18 28	3" · · ·	5 2	• •	1	$\begin{array}{c} 142 \\ 125 \end{array}$
Crown Trident Standar	d	5% '' . 31 . 29	$\begin{array}{c} 42 \\ 42 \\ 82 \end{array}$	$\begin{array}{c} 39 \\ 15 \\ 2 \end{array}$	1 	5 8 • •	2'' 18 28 2	3" 1 2	5 2	• • • • • • • • • • • • • • • • • • • •	1	$142 \\ 125 \\ 88$
Crown Trident Standar Empire	d	5%'' . 31 . 29 	$\begin{array}{c} 42 \\ 42 \\ 82 \\ 1 \end{array}$	$ \begin{array}{c} 39 \\ 15 \\ 2 \\ 1 \end{array} $	1 	5 8 • • • 1	2" 18 28 2	3" 1 2	5 2 · · ·	•••	1	$142 \\ 125 \\ 88 \\ 30$
Crown Trident Standar Empire Union	d	5%'' . 31 . 29 24 . 2	42 42 82 1	$ \begin{array}{c} 39 \\ 15 \\ 2 \\ 1 \\ 5 \end{array} $	1	5 8 1	2" 18 28 2 16	3" 1 2 1	5 2 1		1	142 125 88 30 25
Crown Trident Standar Empire Union Enarc .	d	5% '' . 31 . 29 24 2	42 42 82 1 1 5	39 15 2 1 5	1	5 8 1	2" 18 28 2 16	3" 1 2 1	5 2 1		1	$142 \\ 125 \\ 88 \\ 30 \\ 25 \\ 5$
Crown Trident Standar Empire Union Enarc Nilo	d	5% '' . 31 . 29	42 42 82 1 1 5	39 15 2 1 5	1	5 8 1 	2" 18 28 2 16	3" 1 2 1	5 2 1		1	142 125 88 30 25 5
Crown Trident Standar Empire Union Enarc . Nilo . Gem .	d	5% '' . 31 . 29 24 2	42 42 82 1 1 5	39 15 2 1 5		5 8 1 	2" 18 28 2 16 3	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6
Crown Trident Standar Empire Union Enarc . Nilo . Gem . Keyston	d	5% " 31 29	42 42 82 1 1 5	39 15 2 1 5		5 8 1 	2" 18 28 2 16 3	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current	d	5%" . 31 . 29	42 42 82 1 1 5 	39 15 2 1 5 	1	5 8 1 	2" 18 28 2 16 3	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6 1
Crown Trident Standar Empire Union Enarc . Nilo . Gem . Keyston Current Hersey	d	5%". 31 . 29 	42 42 82 1 1 5 1 1	39 15 2 1 5		5 8 1 	2" 18 28 2 16 3	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6 1 1
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa	d	5% " . 31 . 29 24	42 42 82 1 5 1	39 15 2 1 5 	1	5 8 1 	2" 18 28 2 16 3	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6 1 1
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur	d	5% " . 31 . 29 24	42 42 82 1 5 1 1	39 15 2 1 5 		5 8 1 	2" 18 28 2 16 3	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6 1 1 1
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo	d	5% " . 31 . 29 24	42 42 82 1 1 5 1 1 	39 15 2 1 5 		5 8 1 	2" 18 28 2 16 3	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6 1 1 1
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo	d	5% " . 31 . 29 24	42 42 82 1 5 1 1	39 15 2 1 5 		5 8 1 	2" 18 28 2 16 3	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6 1 1 1 1
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo	d	5% " . 31 . 29 24	42 42 82 1 1 5 1 1 	39 15 2 1 5 	1	5 8 1 	2" 18 28 2 16 3 2	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6 1 1 1
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo	d	5% " . 31 . 29 24 2	42 42 82 1 1 5 1 1 	39 15 2 1 5 1 1		5 8 1 1	2'' 18 28 2 16 3 2	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6 1 1 1 1 1
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo	d	5% " . 31 . 29 24	42 42 82 1 5 1 1 	39 15 2 1 5 	1	5 8 1 	2" 18 28 2 16 3 2	3" 1 2 1 3	5 2 1 		1	142 125 88 30 25 5 3 6 1 1 1 1
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno	d	5% " . 31 . 29 24 2	42 42 82 1 1 5 1 1 1 76	39 15 2 1 5 1 1 65	1	5 8 1 1 	2'' 18 28 2 16 3 2 71	3" 1 2 1 3 7	5 2 1 		1	142 125 88 30 25 5 3 6 1 1 1 1 1
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno	d	5% " . 31 . 29 24 2	42 42 82 1 1 5 1 1 176	39 15 2 1 5 1 1 65	1	5 8 1 1 15	2" 18 28 2 16 3 2 71 ARBO	3" 1 2 1 3 7	5 2 1 		1	$ \begin{array}{c} 142 \\ 125 \\ 88 \\ 30 \\ 25 \\ 5 \\ 3 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 432 \\ \end{array} $
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno	d	5% ". 31 . 29	42 42 82 1 1 5 1 1 176	39 15 2 1 5 1 1 65 MAIN 10"	1	5 8 1 1 15 ANN 6"	2" 18 28 2 16 3 2 71 ARBO	3" 1 2 1 3 7 OR CI'	5 2 1 1 9 TY 1½"	114"	1	142 125 88 30 25 5 3 6 1 1 1 1 1 1 432
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno	d	5% ". 31 . 29	42 42 82 1 1 5 1 1 176 FER 12" 11836	39 15 2 1 5 1 1 65	1	5 8 1 1 15 ANN 6" 150670	2" 18 28 2 16 3 2 71 ARBO 4" 19075	3" 1 2 1 3 7	5 2 1 		1	$ \begin{array}{c} 142 \\ 125 \\ 88 \\ 30 \\ 25 \\ 5 \\ 3 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 432 \\ \end{array} $
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno	d	5% ". 31 . 29	42 42 82 1 1 5 1 1 176	39 15 2 1 5 1 1 65 MAIN 10" 2947	1	5 8 1 1 15 ANN 6"	2" 18 28 2 16 3 2 71 ARBO 4" 19075 597	3" 1 2 1 3 7 OR CI'	5 2 1 1 9 TY 1½"	114"	1	142 125 88 30 25 5 3 6 1 1 1 1 1 1 432
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno Jan., 191 1912-1913 1914	d	5% ". 31 . 29	42 42 82 1 1 5 1 1 176 FER 12" 11836	39 15 2 1 5 1 1 65 MAIN 10" 2947	1	5 8 1 1 15 ANN 6" 150670 5546 6648	2" 18 28 2 16 3 2 71 ARBO 4" 19075	3" 1 2 1 3 7 OR CI' 11147	5 2	114" 6153	1	142 125 88 30 25 5 3 6 1 1 1 1 1 1 432
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno Jan., 191 1912-1913 1914	d	5% " . 31 . 29	42 42 82 1 1 5 1 1 176 FER 12" 11836 1940	39 15 2 1 5 1 1 65 MAIN 10" 2947	1	5 8	2" 18 28 2 16 3 2 71 ARBO 4" 19075 597	3" 1 2 1 3 7 OR CI' 11147	5 2	114," 6153	1	142 125 88 30 25 5 3 6 1 1 1 1 1 1 1 432
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno Jan., 191 1912-1913 1914 1915	d	5% " . 31 . 29	42 42 82 1 1 5 1 1 1 176 FER 12" 11836 1940 4140	39 15 2 1 5 1 1 65 MAIN 10" 2947 1344	1	5 8 1 1 15 ANN 6" 150670 5546 6648	2" 18 28 2 16 3 2 71 ARBO 4" 19075 597 320	3" 1 2 1 3 7 OR CI' 11147 365	5 2 1 1 9 TY 1½" 9381 440	114,7	1	142 125 88 30 25 5 3 6 1 1 1 1 1 1 1 432
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno Jan., 191 1912-1913 1914 1915 1916	d	5% " . 31 . 29	42 42 82 1 1 5 1 1 1 176 FER 12" 11836 1940 4140	39 15 2 1 5 1 1 65 MAIN 10" 2947 1344	1	5 8	2" 18 28 2 16 3 2 71 ARBO 19075 597 320	3" 1 2 1 3 7 OR CI' 11147 365 314	5 2 1 1 9 TY 1½" 9381 440 193	1 ¼, " 6153	1	142 125 88 30 25 5 3 6 1 1 1 1 1 1 1 432
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno Jan., 191 1912-1913 1914 1915	d	5% " . 31 . 29	42 42 82 1 1 5 1 1 176 FER 12'' 11836 1940 4440	39 15 2 1 5 1 1 65 MAIN 10" 2947 1344	1	5 8	2" 18 28 2 16 3 2 71 ARBO 4" 19075 597 320	3" 1 2 1 3 7 OR CI' 11147 365 314 205	5 2	1 ¼, " 6153 146 36	1	142 125 88 30 25 5 3 6 1 1 1 1 1 1 1 432
Crown Trident Standar Empire Union Enarc Nilo Gem Keyston Current Hersey Nationa Pittsbur Buffalo Gammo Magno Jan., 191 1912-1913 1914 1915 1916	d	5% " . 31 . 29	42 42 82 1 1 5 1 1 176 FER 12'' 11836 1940 4440	39 15 2 1 5 1 1 65 MAIN 10" 2947 1344	1	5 8	2" 18 28 2 16 3 2 71 ARBO 4" 19075 597 320	3" 1 2 1 3 7 OR CI' 11147 365 314 205	5 2	1 ¼, " 6153 146 36	1	142 125 88 30 25 5 3 6 1 1 1 1 1 1 1 432

CANCELLATION OF WATER BONDS Issue, \$450,000.00

Year Due	Clerk's No.	No. Bonds	Amount
1920	1-44	44	\$22,000.00
1921	45-90	46	23,000.00

1922	91-138	48	24,000.00
1923	139-188	50	25,000.00
1924	189-240	52	26,000.00
1925	241-294	54	27,000.00
1926	295-350	56	28,000.00
1927	351-410	60	30,000.00
1928	411-472	62	31,000.00
1929	473-538	66	33,000.00
1930	539-606	68	34,000.00
1931	607-676	70	35,000.00
1932	677-748	7 2	36,000.00
1933	749-822	74	37,000.00
1934	823-864	42	21,000.00
1935	865-900	36	18,000.00

16 yrs. 900 \$450,000.00 WATER PUMPED FROM FEB 1st, 1915, TO FEB. 1st, 1916

				. Average Es	st. Daily Aver.
	Station 1	Station 2	Tota!	Daily Co	nsumption To
				Consump. Ea	ch Inhabitant
February	56,934,787	23,052,700	79,987,487	2,856,696	129.08 gal.
March	60,002,318	25,801,765	85,804.083	2,767,873	125.08 gal.
April	59,641,511	24,535,865	84,177,376	2,805,913	127.05 gal.
May	64,418,753	24,900,655	89,319,408	2,881,248	130.90 gal.
June	61,992,773	24,104,199	86,096,972	2,869,808	130.04 gal.
July	64,121,879	24,305,675	88,427,554	2,852,501	158.00 gal.
August	54,987,958	24,928,225	79,916,183	2,577,767	143.02 gal.
September	55,824,213	24,031,275	79,855,488	2,661,852	147.08 gal.
October	65,354,320	24,379,230	89,733,550	2,964,903	134.07 gal.
November	64,059,950	23,598,525	87,658,475	2,921,948	132.08 gal.
December	67,743,867	23,798,640	91,542,507	2,952,977	134.02 gal.
January	72,059,446	23,866,550	95,925,996	3,094,386	140.06 gal.
		-			

1,038,445,079

WATER	PUMPED	FROM FEB.	1st, 1916 TC	FEB. 1st,	1917
					st. Daily Aver.
	Station 1	Station 2	Total		nsumption Te
	2. 2.2.				ich Inhabitant
February	71,783,244	23,281,450	95,064,694	3,395,167	135.80 gal.
March	78,648,051	24,901,050	103,549,101	3,340,293	133.61 gal.
April	74,673,621	24,171,775	98,845,396	3,294,846	131.79 gal.
May	80,942,479	24,997,650	105,940,129	3,417,423	136.69 gal.
June	78,387,714	24,190,505	102,578,219	3,419,273	136.77 gal.
July	94,055,598	25,284,850	119,340,448	3,849,691	213.87 gal.
August	94,076,008	25,351,000	119,427,008	3,852,484	214.02 gal.
September	80,676,897	23,936,850	104,613,747	3,487,124	193.72 gal.
October	89,445,848	24,490,832	113,936,680	3,675,376	147.01 gal.
November	85,848,707	23,410,675	109,259,382	3,641,979	145.67 gal.
December	89,754,852	24,387,375	114,142,227	3,682,007	147.28 gal.
January	93,756,835	24,071,655	117,828,490	3,800,933	152.03 gal.
		_			

1,304,525,521

WATER PUMPED FROM FEB. 1st, 1917, TO FEB. 1st, 1918

				Average Es	st. Daily Aver.
	Station 1	Station 2	Total	Daily Co	nsumption To
				Consump, Ea	ich Inhabitant
February	92,342,264	21,444,410	113,786,674	4,063,809	162.55 gal.
March	95,150,672	23,723,600	118,874,272	3 8 3 4 , 6 5 3	153.38 gal.
April	87,335,401	22,745,925	110,081,326	3,669,377	146.77 gal.
May	94,937,291	23,572,530	118,509,821	3,822,897	152.91 gal.
June	94,344,021	22,494,400	116,838,421	3,894,614	155.78 gal.
July	93,051,872	23,533,250	116,585.122	3,760,811	208.93 gal.
August	101,568,000	23,638,710	125,206,710	4,038,926	224.32 gal.
September	93,549,451	22,811,225	116,360 676	3,878,689	215.48 gal.
October	102,120,000	23,621,750	125,741,750	4,056,185	162.24 gal.
November	99,360,000	22,728,975	122,088,975	4,069,632	162,78 gal.
December	103,333,000	23,718,030	127,051,030	4,098,420	163.93 gal.

January

111,722,000 23,368,050 135,090,050 4,357,743 174.31 gal.

1,446,214,827

The following extensions were made in 1917:

558 feet of 6 inch pipe on John st., from S. Division to S. Fifth ave.

453 feet of 6 inch pipe on S. Ashley between Madison and Moseley sts.

225 feet of 6 inch pipe on Third st. from Madison st. north.

364 feet of 6 inch pipe on Hoover ave. west off Main st.

1316 feet of 6 inch pipe on N. Thayer st. from Kingsley to E. Huron st.

876 feet of 6 inch pipe on Granger ave. to Ferdon road.

390 feet of 6 inch pipe on Packard st. south of Granger ave. 262 feet of 6 inch pipe on Eber White boulevard. 533 feet of 6 inch pipe on Jackson ave.

1850 feet of 6 inch pipe on N. Main st.

50 feet of 6 inch pipe on E. Summit, west from N. Fourth ave. 275 feet of 6 inch pipe on Hill st. to Berkshire road.

22,221 feet of 16 inch pipe from Pumping Station 1 to Church st.

504 feet of 12 inch pipe from Seventh st. to Pumping Station 2.

56 feet of 11/4 inch pipe on Roosevelt ave.

258 feet of 1 inch pipe on W. Jefferson from S. Main st.

390 feet of 1 inch pipe on Wright st. off Kellogg st.

174 feet of 1 inch pipe on Eighth st.

32 feet of 1 inch pipe on Bucholz court.

56 feet of 1 inch pipe on Ninth st., between Washington and Huron sts. 26 feet 6 inches of 1 inch pipe on N. Ashley from 508 to 512.

By resolution on Nov. 13, 1916, the Common Council of the City of Ann Arbor recommended to the Water Board that they proceed to construct such water mains as they deemed most necessary, from the income of their Department.

The water mains supplying the southeast part of the City were not large enough to give satisfactory service, and the growth of the city to the southeastward has caused a large consumption of water at high levels, with a resulting decrease in pressure, due to the lack of provision to supply the

high levels except through the distributing system.

The 12 inch main supplying the reservoir from the Number 1 Pumping Station, was inadequate, and with the growth of the city, the increasing demand for water had to be met from this Station. After a thorough study of the situation, it was decided to construct the 16 inch main from the No. 1 Pumping Station to the Chubb Road Reservoir, connecting to the reservoir and continuing down Chubb Road to Brooks street; south on Brooks street to Miller avenue; west on Miller avenue to Seventh street; south on Seventh street to Washington street, where a 12 inch connection was made to the Washington street Pumping Station; south on Seventh street to Jefferson street; east on Jefferson street to First street; south on First street to Madison street; east on Madison street to Fifth avenue; south on Fifth avenue to Hill street; east on Hill street to Church street, where connections were made to the present 12 inch main leading to the steel reservoir on Medallion street, and also to the 12 inch main running north on Church street. Connections were also made to the 6 inch main at Ingalls street, and a 16 inch Tee was left at State street for future connection of the Steere Farm supply, if desired.

This main is controlled by valves so that water can be pumped at higher pressure if necessary to supply the higher level resident districts in the

south and eastern part of the city.

With the two supply mains from the No. 1 Pumping Station, both connecting to the Chubb Road Reservoir, and to the distribution system, makes the probability of the city being shut off because of a break in a supply main very remote.

The pumping equipment at Station 1, when purchased by the city, consisted of a Ludlow-Dunn-Gordon Cross Compound Steam Pump, 3,000,000 gallons maximum daily capacity; a Knowles Tandem Pump, steam driven, of 1,800,000 gallons daily capacity; and a Gordon Tandem Pump, steam driven, of 2,000,000 gallons daily capacity. The two latter pumps were used as auxillary pumps. The Knowles pump was installed in 1885, and the Gordon pump in 1890. The amount of steam these auxilliary pumps consumed and the general inefficiency when used continuously, caused the replacement of the Gordon pump in 1915, by a DeLaval two stage motor

driven centrifugal pump of the latest type, with a capacity of 3,500,000 gal-

lons daily, against a head of 255 feet.

In 1917, with the construction of the new 16 inch main, the Knowles pump was replaced by an Allis-Chalmers Mfg. Co. two stage motor driven centrifugal pump, of the latest type, with a capacity of 5,000000 gallons daily, against a head of 256 feet. Therefore, the present pumping equipment of Station No. 1 consists of a 3,000,000 gallon daily capacity Ludlow-Dunn-Gordon cross compound steam driven pump; a 3,500,000 gallon daily capacity DeLaval two stage 10 inch centrifugal pump motor driven, and a 5,000,000 gallon daily capacity Allis-Chalmers Mfg. Co., two stage 10 inch centrifugal pump, motor driven, besides 800,000 gallons daily is being pumped at Station No. 2.

With the installation of the new main, there was installed at No. 1 Pumping Station a Venturi meter in the new 16 inch main, and one purchased but not yet installed for the old twelve inch main. These meters indicate the quantity of water being pumped through them at any time, and register the daily quantity pumped; heretofore it has been necessary to estimate the number of gallons pumped daily, but now the exact quantity pumped is

obtained.

The discharge piping from the pumps is arranged so that any one of group of pumps can be connected to either of the discharge mains as desired.

In 1916 a liquid chlorine apparatus was installed to sterilize the water, which has proved so satisfactory that a duplicate apparatus was installed in 1917.

Respectfully submitted: WATER WORKS DEPARTMENT OF THE CITY OF ANN ARBOR, by Geo. S. Vandawarker, Manager.

City Engineer	
	City of Ann Arbor Michigan, Feb. 1, 1918.
To the Board of Public Works, Ann Art	or, Michigan; Sirs-I submit the follow-
ing report of expenditures for work done up	der nig direction during the month of
January, 1918.	(Changeable to Amount
Name	Chargeable to Amount
Engineering and Clerical—	General
Manley Osgood\$150.00	Records 49.69 Sanitary sewer records for State
G. H. Sandenburgh 110 00	Sanitary Sewer records for State Sanitary Engineer
F. L. Feiner	Sanitary Engineer
T. I IIII	Annual Report
W. D. Ithasen	Steere Farm survey and estimate 53.53
T. It. William	Sanitary sewer maintenance 12.81
	1
N. W. Paquette 2.85	Cleaning and arranging Engineer's
	office 4.32 Bids and quotations 4.31
*	
	Automobile
	Assessor's plats for City 1.18
	*Sanitary sewer maintenance
where the plant is the contract of the contrac	Mantear, Sewer maintenance
Total\$496.14	Total
Sewer Work—	Sanitary sewer maintenance\$ 23.58
Julius Loehrke\$ 80.00	Storm sewer maintenance 1.81
St. Com. Roll	Sanitary sewer records for State
St. Com. Ron	Sanitary Engineer 1.40
	Cleaning City yard and shed 2.67
	Sickness 76.±7
Total\$105.33	'Γotal\$105.33
Total expenditures—\$601.47. Respectfully submi	*Recharged to Eddy & Son. itted: MANLEY OSGOOD, City Engineer.
The state of the s	Lilowing anow from cuttons 100 11
Street Commissioner's Report.	Hauling snow from gutters 162.84

Street Commissioner's Report.
Ann Arbor, Mich., Feb. 4, 1918.
Hop Board of Public Works, Andrew
Roule President: Gentlemen-The follow-
ing is a report of the work done by the
Street Department during the month of
January, 1918,
1-3-16; 17-30; Taking care of snow:
Cleaning snow from crosswalks.
gutters, etc., labor,\$482.05

				-
Illowing	snow from	m gutters .		162.84
Hauling	snow fro	m streets,		591.28
Plowing	snow from	m sidewalk	s	214.66
Plowing	streets t	o City and	l Cath-	
		••••••		3.54
Total		,	\$1	454.37
Miscellar	neous wo	rk and	repairs.	,
labor	• • • • • • • • •			\$ 65.70

(Watchman Broadway bridge, \$57.50:

night watchman Broadway bridge, \$5.50; taking ashes from city hall basement, \$1.50; clearing stand pipe pit Main and Ann st., \$1.20)

Annual report of the Water Works Dept., and reports of City Engineer, Street Commissioner and Acting Marshal, for month of January, received and ordered to take usual course.

Mr. John Shadford, Poor Commissioner, explained to Council the necessity of rebuilding city coal sheds, and the matter was referred to the Poor committee.

By Ald. Huss: Resolved, that Dr. John F. Blinn be and is hereby appointed City Physician for the year beginning the first Monday in March, 1918, at a salary of \$25.00 per month.

Adopted by the following vote: Yeas, Ald. Heusel, Sugden, Mayer, Huss, Andres, Henderson, Donnelly, Markey, Hauser, McGregor, Freeman, Lutz, Sink, Pres. Reichert, 14. Nays, none.

By Ald. Hauser: Resolved, that John H. Shadford be and is hereby appointed Poor Commissioner for the year beginning the first Monday in

March, 1918, at a salary of \$35.00 per month.

Adopted by the following vote: Yeas, Ald. Heusel, Sugden, Mayer, Huss, Andres, Henderson, Donnelly, Markey, Hauser, McGregor, Freeman, Lutz, Sink, Pres. Reichert, 14. Nays, none.

Ala. Lutz suggested that the special wood committee confer with Mr. Shadford relative to wood necessary for city poor.

Mayor Wurster called attention of Council to matter of sewer hacking up at Ann Arbor Abattoir Company's property.

City Engineer Osgood read a communication from the Abattoir Company, relative to the same.

Moved by Ald. Lutz that the matter be referred to City Engineer and City Attorney, with power to act.

Adopted by the following vote: Yeas, Ald. Heusel, Sugden, Mayer, Huss, Andres, Henderson, Donnelly, Markey, Hauser, McGregor, Freeman, Lutz, Sink, Pres. Reichert, 14. Nays, none.

On motion of Ald. Lutz, Council adjourned.

ISAAC G. REYNOLDS, City Clerk.