Council Chamber, Ann Arbor, Mich., cost of an automobile would be just President.

Present: Ramsay, Ald. Schmid, Prochnow, Murray, Pipp, Sherk,

Lutz, Pres. Mills, 8.

Ald. Hochrein, Koernke, Absent: Flynn, Manwaring, Lindenschmitt, Schultz, Rash, 7.

Minutes of previous meeting approved.

(Enter Ald. Schultz and Rash.)

Communications.

From the Mayor-

To the Honorable Common Coun-Gentlemen—I desire to call your attention to some objections to the resolution passed at your last regular meeting ordering a special election for April 7th for the purpose of now over two per-cent and while it is enabling the pople to vote on the true that the greater portion of this question of raising \$2000.00 by spe- is State, County and School, I becial tax for an automobile for the police department. The state law says that a city cannot order more than two year and as this council has already ordered two such elections there Moved by Ald. Lutz, that action may be some question as to the le-relative to election for auto-patrol, gality of your action. Besides, it may taken December 16th, 1912, ordering not be the wisest policy to use a special election for such a small matter, especially, when the coming year will bring up important matters for solution that may require the action I would thereof special elections. fore suggest that the resolution be reconsidered, and be referred back to the Committee. I do not make this suggestion because I am in favor of the object of this special tax but because if the people are to vote this extra tax it should be done with a full understanding of its possible effects, and in a way that no technicalities can be raised against it.

I have been asked why I am opposed to the council appropriating this money for a police automobile, and will state that I am opposed to this action for a number of reasons but if the people wish to vote the extra tax I have no objections to their doing so. But I believe such addiadditional money could be used to better advantage than to buy a police automobile. I will admit that an automobile would be a nice thing for the police department if we had the a necessity. It is said that with an automobile the police could answer calls on the outskirts of the city. The police department is now equipped with a motor cycle which could be The first used for hurry-up calls.

January 6, 1913. Regular Session. the beginning of more expense and Meeting called to order by the very soon the council would have to allow additional men in order operate the auto. In fact som_e the members now think that force should be increased four or five men. I believe that the department is in good shape now and that all it needs at present is another man so that some one can be in the office at all times of the day and night so as to answer calls, and I would be glad to put on an additional man just as soon as the council provides funds to do so. In fact there is a vacancy on the police force now but which never felt justified in filling because by doing so it would overdraw the police fund. Our total tax lieve we should do our part in keeping the rate down to two per-cent a city cannot order more and below if possible, consistent with special elections in one necessary improvements.

WILLIAM L. WALZ, Mayor.

as follows: Adopted Yeas, Schmid, Ramsay, Schultz, Murray,

a special election, be reconsidered.

Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 10. Nays, none.

Moved by Ald. Lutz, that communication from Mayor be received and that part relative to Auto-Patrol be adopted and the resolution referred back to the Police committee.

Adopted as follows: Yeas. Schmid, Ramsay, Schultz, Murray, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 10. Nays, none.

Deed from Mr. and Mrs. L. D. Carr to the City, conveying right to construct a sanitary sewer through a certain piece of land in Ferdon's addition, received and referred to the city attorney.

Report of the Ann Arbor company of the City of Ann Water Michigan, to the Michigan State Board of Health and also the City Clerk of the City of Ann Arbor, in accordance with Act No. 28 for the year 1912.

During the year 1912 this company has installed six fire hydrants and funds but I do not believe that it is laid the following mains with necessary valves and fittings:
S. Univ. Ave. from Forest to Washtenaw, 500 Ft. 6 inch Pipe.

Cambridge Road between tenaw and Hill, 500 Ft. 6 inch Pipe. Martin St., South of Cambridge

482. COMMON COUNCIL-	-JANUARY 6, 1913.
Road, 650 Ft. 6 inch Pipe.	S. W. Beakes, salary 125.00
Baldwin Ave., North of Wells, 650	John W. Dwyer, salary 83.33
Ft. 6 inch Pipe.	Jas. F. Breakey, salary 50.00
Hill St., from No. 1500 to Oswego	M. E. Easterly, salary 50.00 Napolean Brough, salary 50.00
St., 1610 Ft. 12 inch Pipe.	R. G. MacKenzie, salary 50.00 25.00
Oswego from Hill to Medallion,	Michael Ryan, salary 30.00
330 Ft. 12 inch Pipe.	Edward Besch, collecting garbage 300.00
Medallion from Oswego to Tank,	Westel colonies and commisses commisses
365 Ft. 14 inch Pipe. Broadway to City Limits, 700 Ft.	Total salaries and services\$988.32
6 inch Pipe.	Fire Fund. Chas. J. Andrews, salary\$41.66
S. Ashley from Liberty to Williams,	Eugene Williams, salary 38.50
600 Ft. 6 inch Pipe.	Ceo. Hoelzle, salary 38,50
Mosley east of 3rd St., 600 Ft. 6	Ralph Edwards, salary 38.50
inch Pipe.	Henry McLaren, salary 36.50
3rd St., South of Madison, 385 Ft.	Fred Jolly, salary 36.50
4 inch Pipe.	Jacob Gwinner, salary35.00Arthur Clark, salary35.00
Brookwood Place West of Packard,	Max Wittlinger, salary 35.00
212 Ft. 4 inch Pipe. Hill St. to make circuit with 12	Harley Wise, salary 35.00
inch pipe to Tank, 96 Ft. 6 inch Pipe.	Martin Noll, salary 35.00
Cherry St., 65 Ft. 11-4 inch Pipe.	Geo. Isbel, salary 35.00
So. Ashley St., 53 Ft. 2 inch Pipe.	Mat. Heininger, salary 35.00
Camden Road, 152 Ft. 2 inch Pipe.	John Behr, salary 35.00
N. Ingalls St., 275 Ft. 2 inch Pipe.	James Smith, salary
Total 7,743 Ft.	Frank Markey, salary
Station No. 1.	Clyde Carpenter, salary 30.00
For river connection through Bar-	Chas. Carroll, salary 23.00
ton Dam 204 feet of 16 inch pipe and	Frank Kapp, salary 23.00
288 feet of 20 inch pipe.	
This Company has made 144 serv-	Total salaries for 1-2 month of
ice or house connections. For the purpose of equalizing the	December\$686.16 Pclice Fund.
pressure during the time of excessive	Theo. C. Apfel, salary\$ 41.66
consumption the Company has erect-	Thos. O'Brien, salary 40.00
ed in the Eastern part of the City,	Wm. J. Aprill, salary 35.00
between Medallion and Geddes	Gustave Meyer, salary 35.00
Avenue, a steel tank, on pillars, 30	Wm. Blackburn, salary
feet in diameter and the top of the	
	edw Kuhn salary 25.00
tank is 60 feet from the surface of	r.dw. Kuhn, salary 35.00
the ground with a capacity of 250,000	r.dw. Kuhn, salary
the ground with a capacity of 250,000 gallons.	Reuben Armbruster, salary
the ground with a capacity of 250,000 gallons. State of Michigan, County of	r.dw. Kuhn, salary
the ground with a capacity of 250,000 gallons. State of Michigan, County of Washtenaw, ss. I, A. K. Hale, Sec-	r.dw. Kuhn, salary
the ground with a capacity of 250,000 gallons. State of Michigan, County of Washtenaw, ss. I, A. K. Hale, Secretary and Treasurer of the Ann Ar-	r.dw. Kuhn, salary
the ground with a capacity of 250,000 gallons. State of Michigan, County of Washtenaw, ss. I, A. K. Hale, Sec-	r.dw. Kuhn, salary 35.00 Reuben Armbruster, salary 35.00 Total salaries for 1-2 month of December \$291.60 Poor Fund. \$25.00 Cemetery Fund. Matthias Luippold. salary \$40.00
the ground with a capacity of 250,000 gallons. State of Michigan, County of Washtenaw, ss. I, A. K. Hale, Secretary and Treasurer of the Ann Arbor Water Company, hereby certify,	Total salaries for 1-2 month of December
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A. F. Martin, election meals	4.00	Wm Tomple buniel des
G. F. Willey, services	4.00	Wm. Temple, burial dog
R. W. Pryer, services	20.00	Total\$53.70
McOmber & Miner, insurance	2.00	Street Lighting Fund.
C. E. Godfrey, cartage	$\frac{1.00}{100.65}$	Eastern Michigan Edison Co.,
Sid. W. Millard, printing	20.25	light\$1,242.07
Clyde C. kerr, printing	4.25	Sidewalk Building Fund. E. G. Mann, Gerken tax refund\$15.91
The Athens Press, printing	8.50	Park Fund.
R. L. Polk & Co., directories	45.00	Jno. C. Fischer Co., supplies\$.65
The Richmond & Backus Co., supplies	36.75	Holmes' Livery, liveries 5.50
J. I. Holcomb Mfg. Co., supplies	4.20	Total
Jno. C. Fischer Co., supplies	7.20	Water Fund.
Wm. H. L. Rohde, supplies	-2.50 -3.20	Ann Arbor Water Co., hydrants,
The Brown Drug Store, supplies Dawson Bros., supplies	6.50	water, etc
Mayer, Schoettle & Schairer Co.,		Bridge, Culvert and Crosswalk Fund.
supplies	2.70	Andrew Caughey, labor
Christian Schlenker, repairs	$\frac{8.45}{4.82}$	John Dalgliesh, labor
L. Walz, expenses paid	$\frac{4.52}{5.74}$	Go. Enkeman, labor 2.25
Ross Granger, express paid	1.35	John Holka, labor 6.40
		Sam. Kalmbach, labor 9.55
Contingent fund total	360.16	Wm. Kuehn, labor 22.37 Mat. Luippold, labor 4.25
Fire Fund.		J. G. Mack, labor
Jos. Seabolt, substitute	.\$4.00	Geo. Miley, labor 9 15
te Swan Laundry Co., Ltd.,	7.05	W. J. Randel, labor 2.25
Ann Arbor Gas Co., light, etc	12.24	Geo. Roberts, labor 10.40 Mam. Stoll, labor 18.00
lastern Michigan Edison Co., light,		Clenn Winans, labor 3.56
etc	6.15	Geo. Wisner, labor 3.56
American-LaFrance Fire Engine	3.83	C. C. Bargdill, team 26.50
Co., repairs and express F. S. Gehringer, supplies	1.00	Porter F. Howard, team
Dawson Bros., supplies	5.70	Tawin Knarr, team 21.00 Herman Marquardt, team 22.00
Hutzel & Co., supplies	.50	C. L. Mullison, team
P. E. Muehlig, supplies	$\frac{20.32}{3.05}$	Geo. Schaible, cart and man 18.00
Schumacher Hardware Co., supplies Muehlig & Schmid, supplies	13.42	eter Schneider, team 5 00
S. C. Andres, supplies	.47	Wm. Seyfried, team 24.50 Jos. Wallacker, cart and man 19.67
d. Donavan. hay	21.84	Koch Bros., rlowing spow 5.00
Michigan Milling Co., bran	6.25	P. Schaffer, plowin snow 7.00
C. W. Cornell, horseshoeing F. A. Wisdom, repairs	$\begin{array}{c} 7.40 \\ .25 \end{array}$	G. W. Weeks, plowing snow 5.00
, in Wiedom, Teparis		W. W. Wheelock, plowing snow and team
Fire fund total	3119.55	Jos. Williams, plowing snow 2.50
Police Fund.	#9 10	
Wichigan State Telephone Co., tolls. Wichtenaw Home Telephone Co.,		Total labor St. Comm'r dept\$227 54
tolls	.20	D. W. Bingham, labor
Ann Arbor Garage, services	2.75	W. A. Grove, labor
"n Arbor Taxicab Co., services	10.00	240.05
Washtenaw Garage, services	$\frac{2.00}{2.00}$	Total labor Eng. dept\$43.95
Folhemus Transfer Line, services	1.50	Total labor
J. C. Mill r. services	2.00	Engineering & Contracting Pub. Co.,
Linis, supplies	5.75	advertising 3.60
Defries' Art Store, supplies	$\frac{1.50}{1.25}$	The American Contractor, advertising 2.40 Figure Processor Record, advertising 4.50
I dward Kuhn, lost cap	1.50	ref 1 & Fseer Co., supplies 4.04
Theo. C. Apfel, supplies paid	1.50	The W. L. McCullough Co.,
Police fund total	497.07	supplies and freight 4.15 United & Co. supplies 100
Poor Fund.	755.50	Fyer & Whitker, supplies 1.25
Helber Bros., supplies	.\$3.50	Wm. H. L. Rohde, supplies 11.02
Herrick & Bohnet, supplies	16.72	Jno. C. Fischer Co., supplies 12.23
John Wagner, supplies	8.26	Kuehnle & Meyer, supplies 15.85
Theurer & Walker, supplies Anton Brahm, supplies	$17.09 \\ 1.92$	Kuehnle & Meyer, supplies 10.25 T. C. McMullen, oats 39.49
University hospital, Moncrieff case.	7.00	L. C. Weinmann, gravel 13.97
Mrs. Geo. Beckler, supplies	5.00	4. F. Allmendinger, agent, gravel 119.60
Poor fund total	\$50.40	Bailey & Edmunds, repairs 18.00
Dog License Fund.	. F.O. T.U	S. C. Andres, repairs
Meyer & Wenthe, supplies	\$53.20	Marley Osgood, expenses paid 7.85

484.	COMMON COUNCID	L—JANUARY 6, 1913.
Ann An tanks	bor Water Co., repair flush-	Less 5 per cent retained for one year 84.23
Total	supplies, etc\$559.71	\$1 600.40
Bridg	ge, culvert and crosswalk	\$1600.42 Less amount of first estimate.
iuna to	Recapitulation. \$931.20	Dec. 2, 1912, 521.88
Wai	rants drawn January 6th, 1913.	Due contractors\$1078.54
Conting	gent fund\$360.16	Distribution of cost:
Fire	119.55	Amount of above final esti-
Ponce		mate \$1684.65
Dog lie	cense 53.70	Engineering, laying tile, etc. 11.04
Street	lighting $\dots 1,242.07$	21007.00
Sidewal	k building 15.91 6.15	Total \$1695.69
Water	5,079.76	City to pay 44.68
Bridge,	cul. and crosswalk 931.20	Property to pay\$1651.01
Total	\$7,903.34	Very respectfully submitted, Man-
Total	Ann Arbor, Mich., Jan. 6th, 1913.	ley Osgood, City Engineer.
To th	e Honorable, the Common Council:	Moved by Ald. Lutz, that engineer's
	nen:—Your Finance committee have	estimate be accepted and the city
	d the foregoing reports of the city Warrants for salaries were drawn	clerk draw warrant in favor of
Decemb	per 31, 1912. We recommend that	Hochrein & Reimold for amount due.
	be approved and that warrants be	Adopted as follows: Yeas, Ald.
Geo. La	drawn for the foregoing accounts. utz, Wm. H. Murray, E. E. Schmid,	Schmid. Ramsay. Schultz. Murray.
	ace Committee.	Schmid, Ramsay, Schultz, Murray, Prochnow, Pipp, Sherk, Rash, Lutz,
	Lutz moved the adoption of	Pres. Mills, 10. Nays, none.
the re		Sewer Committee.
	pted as follows: Yeas, Ald. d, Ramsay, Schultz, Murray,	To the Honorable Common Coun-
Prochi	now, Pipp, Sherk, Rash, Lutz,	cil: Gentlemen—Your committee, to
Pres.	Mills, 10. Nays, none.	whom the petition of the property
	Lutz presented engineer's re-	owners on Crest Ave. for sanitary sewer, was referred, would recom-
	n Sanitary Sewer No. 50, Myr-	mend that the petition be granted,
tle st.,	as follows:	and estimate, plans and specifications
Δn	Engineer's Estimate. n Arbor, Mich., Jan. 6th, 1913.	be furnished by the city engineer.
	the Hon. Common Council,	I. L. Sherk, Chairman Sewer Com-
Ann A	Arbor, Mich.: Sirs-I submit	mittee.
	th the following final estimate	Adopted as follows: Yeas, Ald. Schmid, Ramsay, Schultz, Murray,
	rk done and material furnished	Prochnow, Pipp, Sherk, Rash, Lutz,
	e sanitary sewer on Myrtle st., Oswego st. to the city limits,	Pres. Mills, 10. Nays, none.
	et No. 50, and recommend the	Fire Committee,
	nt of the amount due to	To the Honorable, the Common
	ein & Reimold, the contractors:	Council: Gentlemen: Your fire
	excavation, 0 ft. to	committee and fire commissioners re-
	ft., at \$1.00\$386.00	spectfully recommend that the com- missioners be authorized to purchase
	exeavation, 12 ft. to t., at \$1.25	a suitable horse to replace one that
	excavation, 15 ft. to	died Friday last. Henry G. Pipp,
	t., at \$2.00 902.00	Chas. R. Rash, Geo. E. Apfel, Sid W.
	of 8 inch sewer tile at	Millard, Moses Seaboldt, Fire Com-
	111.36	mittee and Commissioners.
	of 4 inch sewer tile at	Ald Pipp moved the adoption of report.
	n by 4 inch Ts or Ys at	Adopted as follows: Yeas, Ald.
		Schmid, Ramsay, Schultz, Murray,
3 8 in	ch by 8 inch Ts or Ys at	Prochnow, Pipp, Sherk, Rash, Lutz,
	2.25	Pres. Mills, 10. Nays. none.
	ch curves at $\sqrt{5}.0$ 1.50	Park Committee.
	nch curves at .25 8.50 hhole 45.00	To the Honorable, the Common
	htank 75.00	Council: Gentlemen—Your park committee have had under considera-
	phole cover 4.00	tion the petition relative to maintain-
		ing skating places at West park and
Tota	al (1691 65	the Fair Crounds We find that it

Total \$1684.65 the Fair Grounds. We find that it

impracticable to would be West park by a dam on Allen's creek.

We respectfully recommend that some of the low places at West park and the Fair Grounds be flooded by fire hose under direction of the Commissioner. Respectfully Street submitted, Theo. F. Prochnow, Chairman Park Committee.

Ald. Prochnow moved the adoption

of the report.

Adopted as follows: Yeas, Ald. Schmid, Ramsay, Schultz, Murray, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 10. Nays, none.

Special Water Committee.

through the city engineer, presented a report of the work done at the

flood Steere farm since Nov. 4th, 1912, the date of last report.

City Engineer's Office, Ann Arbor, Mich., Jan. 6, 1913. To the Special Water Committee of The Hon. Common Council, Ald. Geo. Lutz, Chairman, Ann Arbor, Mich .:

Dear Sirs-I wish to submit the following report of work done at the Steere farm since November 4, 1912,

the date of my last report.

Flow of Wells: The five wells which were flowing at the time of the last report were capped on November 13, p. m., and I have in my office a tabulated statement of their flow up until that time. From this table I have computed the following averages:

Mean Daily Flow in Gallons Per Twenty-Four Hours.

	Average	Maxim.	Minm.
Well No. 1	138,200	148,500	127,000
Well No. 2	143,800	155,000	133,400
Well No. 3	156,000	168,000	146,700
Well No. 4	98,600	104,250	95,400
Well No. 5	206,300	221,600	194,600
Total	742,900		

Pumping Wells: Complying with your instructions of November 8, specifications for 1912, I drew up these five wells to be pumped simultaneously and continuously, twenty-four (24) hours per day and for thirty (30) successive days. The water level in each well to be lowered to an elevation one (1) foot above the topmost perforations in the casing, and amintained at that elevaduring the pumping. All machinery, power, tools and supplies necessary to do the work under the specifications to be furnished by the contractor. I inserted advertise-ments for this work in the local paper and in three prominent engineering and contracting papers and sent out fourteen (14) copies of the specifications to prospective bidders, but when the bids were opened on December 20, 1912, only two bids had been received. These bids were as follows:

From W. J. Harper, Well Driller, Wauseon, Ohio:

Using vertical thrust pumps of the Roth or Hill-Tripp

make \$7,350.00 Using ordinary centrifugal

pumps From the Hill-Tripp Pump Company Manufacturers, Anderson, Pump Ind .:

Hill-Tripp Vertical Using

Thrust pumps \$8,400.00 Or if the City of Ann Arbor

keeps the pumps on the completion of this test ..10,000.00

Only the Hill-Tripp Pump pany complied completely with requirements of the specifications, for the check of Mr. W. J. Harper was not certified.

I submitted the following estimate of the amount for which I thought the City of Ann Arbor could do this same work:

and the production of the second second second	Type of Pump.			
	Roth	Centrifugal	Hill-Tripp	
Price of five pumps f. o. b. factory	\$2,000.00	\$ 800.00	\$2,750.00	
Freight and cartage (one way	60.00	60.00	60.00	
Rent of five traction engines with at-				
tendants	1,500.00	1,500.00	1,500.00	
Rent of one traction engine without				
attendants	150.00	150.00	150.00	
Coal for engines, approx. 225 ton	1,000.00	1,000.00	1,000.00	
Reading guages, engineering, livery .	240.00	240.00	240.00	
Labor setting pumps	100.00	100.00	100.00	
Shelter for pumps, machinery, etc	600.00	600.00	600.00	
Totals	\$5,650.00	\$4,450.00	\$6,400.00	

For several of the above amounts. I have used what I consider a fair average unit of price or quantity in cases where a contractor bidding on the work would have used greater units in order to protect himself and insure a profit in the work. You will note, however, that in my estimate I have used the purchase price of the pumps, which we could not rent. Only the Hill-Tripp or Roth pump could pump these wells to comply completely with the specifications.

On December 27, 1912, at a meeting of the special water committee, both of these bids were rejected, the city engineer instructed to return the bidders' checks, and committee composed of Alderman Lutz, Alderman Sherk, and the city engineer pointed to make arrangements for and proceed with the pumping two of these five wells, using ordinary centrifugal pumps which might be

rented or borrowed locally. New Wells: Meanwhile, in accordance with your instructions of November 22, 1912, arrangements were made to have two wells drilled on the east side of State street road, the five already finished all being on the west side. Well No. 6 was located about 50 feet north of the county ditch and about 1,500 feet east from the road. Well No. 7. was located about 50 feet north of the county ditch and about 900 feet east from the road. The casing in well No. 6 was started on December 8 and both wells were completed by December 14, 1912. The amount paid to the contractor for drilling these two wells \$256.10.

The character of the soil through which these two wells was drilled

was as follows:

Well No. 6. Muck 0.9 feet; gray clay 5 feet; hardpan 10 feet; sand and gravel 16 feet, being fine

on top and getting coarser toward the bottom of this layer; and below this drilled 23 feet into hardpan expecting at any time to break through it into another bed of water gravel stopping before such water This well was cased was reached 37.4 feet deep from the top of casing which is about two feet above the ground. The lower 14 feet of pipe is perforated with 3-8 inch holes spaced quite closely.

Well No. 7. Muck 2 feet; clay 19.5 feet; hardpan and stones 0.5 feet; coarse water gravel 8.0 feet. well was cased 33.9 feet deep from the top of the casing which is 1.5 feet above the ground. The bottom of the casing rests on hardpan. lower 14 feet of this casing is perforated with 3-8 inch holes spaced

closely.

These two wells have a very strong flow; well No. 6 flowing about the same as well No. 5, the best of the well No. first five wells, and flowing better than any of the other wells. These wells were allowed to flow until December 26, 1912, when they were capped in the usual manner. On December 30, I inspected them and removed caps and found that well No. 7 was flowing around the outside of pipe enough so that it would not flow up through the pipe when the cap was removed. Well No. 6, also, was flowing around the outside of the pipe but not so strongly. This will necessitate putting down casing of a larger diameter and removing the 8

inch casing. This should, also, increase the flow of the wells.

Cleaning Ditch: I have had two men cleaning the county ditch into which these wells discharge, and widening a part of the county ditch sand and the private ditch on Mr. Steere's

farm in order to care for the greatly increased discharge when pump-ing. This work will probably be completed within these next two weeks.

Costs: The costs of this work to

date have been as follows:

Concrete basins, flumes, gaug-.....\$270.90 Cleaning ditches guages, computing Reading flow of wells, etc. 65.50 Specifications, advertising, etc.

for pumping test 74.01 New wells No. 6 and No. 7 .. 277.85

Total .. Total\$725.43 These costs include that part of my own time properly chargeable to this account. Also items of tools which are still on hand in good condition and can be used for other work which may arise.

Analysis of Water: I took a sample of the water from well No. 6 and your chairman had same analyzed at the University of Michigan laboratory of hygiene. A copy of analysis is on file in my office. water is remarkably pure, be chemically and bacteriologically; The good drinking water, and is considerably softer than the present Ann Arbor city water or than the water in the Huron river.

Water Consumption Statistics: I am corresponding with the city engineer in cities of about Ann Arbor's population, including student population, in this and nearby states, with a view to determining the daily quantity of water necessary to supply the city of Ann Arbor. At some future date, when I have obtained sufficient data, I will present the same to you in a tabulated statement report.

All of which is very respectfully

submitted,

MANLEY OSGOOD, City Engineer.

Moved by Ald Lutz, that the report be accepted and printed with the minutes.

Yeas, Adopted as follows: Schmid, Ramsay, Schultz, Murray, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 10. Nays, none.

Officers' Reports.

Report of City Marshal for month of December, 1912, and report of Justice Doty for quarter ending December 31, 1912, received and ordered on file.

Street Commissioner's Report.

Ann Arbor, Mich., Dec. 7, 1912. Hon. Board of Public Works: Wirt Cornwell. Esq., President: Gentlemen:

The following is a report of the work done by the Street Department

(North Division; Geddes; south of Washtenaw av. and east of Ferdon road; South Main; South 4th av.; N. Ingalls; Lincoln; East and South University aves.; Hill be-East and South University aves. tween 5th av. and Division st.; Stoll st. at Brown st.; Chubb road; and patching holes at various points in the several wards.)

Repairs block and brick pavements, , 22.20 labor (S. 4th av.; W. Huron; State and Liberty; S. State st.)

Miscellaneous work and repairs,

labor (Work with city team, \$3.11; removing plank Edwin st. culvert, \$1.13; repairs 6th ward polling place, \$0.71; hauling tile, 71; laying up cement mixer, \$2.67; reairs railing culvert 5th st., \$2.36; piling and sorting lumber city yard, \$6.68; removing ashes city hall, \$2.02; cleaning lange, \$0.40) ng ashes o

Cleaning crosswalks, catch basins and Repairs and making new snow plows,

labor
Cleaning M. C. R. R. overhead crossing and No. 1 bridge, labor
Grading sidewalks, labor 1.50 (South Main south of West st.)

Repairs inlets, gutter boxes, etc., 5.28 Handling and shipping empty cement sacks. labor Clearing culvert, 7th bet. Liberty and

Jefferson, labor Extensions and crosswalks, labor ... 5.51 (Lowering two crosswalks across Stoll

st. at Brown st.) Regains sidewalks, labor (Packard bet. Sate and Arch; Huron bet. 7th av. and Division; Broadway at City park; N. Main; Belser; Church bet. Willard and Hill: cor. Monroe and State st.: at driveway Spring north of Summit st.)

and Oswego paving No. 20,

labor acct. (tarring)

Achlev st. paving No. 7, labor acct.
(tarring)

Total . \$1 570.84 Respectfully submitted, J. WISNER. Street Commissioner.

Street Commissioner's report work done during month of Novem-1912, received and ordered printed with the minutes.

Resolutions.

By Ald. Murray-Resolved,

quires and orders the sum of six thousand, three hundred thirty-four and 31-100 dollars (\$6,334.31) payable in ten equal annual installments with four per cent interest, or at the option of the tax payers in one payment, to be raised by tax and a special assessment on and against the lots, parts of lots, lands and tenements situated in the special assessment district, paving No. 27, and as a tax against the owners thereof. All to be assessed on and against said lands, tenements and premises acto cording to the benefits coming each parcel thereof from such local public improvement, and the city assessor is hereby required to levy and assess the said sum of money as aforesaid on and against the lands and tenements aforesaid on and upon the special assesment roll for the paving district aforesaid and on and upon each and every of the regular assessment rolls of the City of Ann Arbor for the year and during which any such special assessment may be payable, until the whole of such special assessment shall be paid in full, all to be assessed in the manner and for the purpose aforesaid pursuant to law.

Resolved, further, that the sum of two thousand, five hundred seventy and 22-100 dollars (\$2,570.22) is

and this common council hereby re- hereby appropriated for the purpose of defraying the cost of such public improvement at street and alley intersections and twenty per cent of the balance of costs of said public improvement; all of which sum of money in ten equal annual install-ments with interest be and the same is hereby ordered and required to be levied, spread and assessed on and upon each andevery of the regular annual assessment rolls of the City of Ann Arbor, and on and against all the taxable property within the said city in and during the period in which any part of this appropriation and assessment is or shall be payable.

Resolved, further, that the city clerk do certify this determination and order of assessments to the city

assessor pursuant to law.

Adopted as follows: Yeas. Schmid, Ramsay, Schultz, Murray, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 10. Nays, none.

Moved by Ald Schmid, that sidewalks along property of Young Woman's Christian Association on S. Main st. be repaired with cinders by the street commissioner.

Adopted as follows: Yeas, Schmid, Ramsay, Schultz, Murray, Prochnow, Pipp, Sherk, Rash, Lutz, Pres. Mills, 10. Nays, none.

The Council adjourned.

ROSS GRANGER, Clerk.