

Council chamber, Ann Arbor, Mich.,
Feb. 7, 1916. Regular session.

Meeting called to order by the president.

Present: Ald. Heusel, Fiegel, Hanselmann, A. Lutz, Koernke, Heck, Markey, Flynn, Sherk, Manwaring, McGregor, Freeman, G. Lutz, Sink, Pres. Wurster, 15. Absent, none.

Minutes of previous meeting approved.

Communications.

Feb. 7th, 1916.

To the Honorable, the Common Council: Gentlemen—I hereby announce the appointment of Joseph L. Arnet as a member of the Board of Public Works from the Third ward to fill the vacancy caused by the death of William McIntyre. I respectfully request your confirmation of the same.

Respectfully submitted, E. M. Wurster, Acting Mayor.

Moved by Ald. Koernke, that nomination be confirmed.

Adopted by unanimous vote, 14, Pres. Wurster not voting.

From Board of Public Works.

Jan. 17, 1916.

To the Honorable Board of Public Works: Sirs—Last week, on Thursday, my attention was called to a very bad cave-in which occurred under the M. C. sidetracks at the foot of Glenn avenue. This was caused by a broken tile in the sanitary sewer running down Glen avenue and emptying into the Main Sewer on the M. C. right of way at this point. This, of course, was repaired at once. The fact, however, that the Glenn avenue sewer is constructed of sewer tile across this right of way makes it a very dangerous condition of affairs. Such a cave-in might occur under one of the main tracks as well as under this sidetrack. I would therefore suggest that at the time of building the Glen avenue storm sewer next spring, while the trench is open under these tracks, that cast iron pipe be substituted for vitrified tile.

Respectfully submitted, Manley Osgood, City Engineer.

(Board action.)

Moved by Mr. Cornwell, that suggestion of Engineer be recommended to Council. Adopted.

(Council action.)

Moved by Ald. Koernke, that recommendation be concurred in. Adopted by unanimous vote of the Council, 15.

Ann Arbor, Mich., Jan. 31, 1916.

To the Honorable Common Council: Gentlemen—We, the undersigned, feel that we have been assessed a sewer tax on lots 526 and 530 Detroit st., which we ought not to pay. This property was connected up with Division st. sewer and tax paid for same.

Chas. Wheeler, Mrs. Alma Clark .
Referred to Sewer committee.

Ann Arbor, Mich., Feb. 1, 1916.

The Council of the City of Ann Arbor, Ann Arbor, Michigan: Gentlemen—The undersigned citizens of Ann Arbor hereby respectfully petition your honorable body to accept for public uses as a highway lots numbers 12, 13 and 14 of the Mallory Addition to the City of Ann Arbor, Michigan, said highway to be known as Dorset road. The aforesaid lots, now given over to form Dorset road, and connecting Onondaga st. with Berkshire road, have been laid out and graded according to directions received from the City Engineer. A deed of said lots to the City of Ann Arbor is hereto appended, and will be duly executed and delivered, together with proper abstract of title, whenever the City Council shall have indicated its readiness to accept said Dorset road for public uses.

Signed Herbert S. Mallory, Elmie Warner Mallory.

Received and referred to Street committee.

Petitions.

Of F. Schmid, et al., for grading and paving Greenwood ave. between Packard st. and E. University ave., received and referred to City Engineer.

Of Horace G. Prettyman and 340 others, petitioning the Common Council to submit the question of a general revision of the city charter of Ann Arbor at the next regular election and to provide for the selection of a commission at the same election to prepare such revision, received.

Moved by Ald. Sink, that petition be granted.

Lost by following vote: Yeas, Ald. Sherk, Freeman, G. Lutz, Sink, 4. Nays, Ald. Heusel, Fiegel, Hanselmann, A. Lutz, Koernke, Heck, Markey, Flynn, Manwaring, McGregor, Pres. Wurster, 11.

Committee Reports.

FINANCE REPORT

Contingent Fund

Ross Granger, salary and clerk hire,	\$166.66
Geo. W. Sweet, salary and clerk hire	108.23

Herbert W. Crippen, salary	125.00
Manley Osgood, salary	150.00
Alfred J. Paul, salary	125.00
Frank B. DeVine, salary	83.33
W. C. Russell, salary	85.00
Julius Lohrke, salary	80.00
R. M. Caughey, salary	70.00
M. E. Easterly, salary	55.00
John A. Wessinger, salary	50.00
Douglas Bycan, salary	50.00
Ura G. Rickert, salary	50.00
Geo. F. Muehlig, salary	25.00
M. C. Ryan, salary ½ month	30.00
Edward Besch, collecting garbage,	400.00

Total salaries and services for
month of January\$1,653.32

Fire Fund

Chas. J. Andrews, salary	\$ 50.00
Eugene Williams, salary	38.50
Geo. Hoelzle, salary	38.50
Ralph Edwards, salary	38.50
Henry McLaren, salary	36.50
Jacob Gwinner, salary	36.50
Arthur Clark, salary	35.00
Harley Wise, salary	35.00
Martin Noll, salary	35.00
Geo. Isbel, salary	35.00
Frank Markey, salary	35.00
Thomas Shamp, salary	35.00
Harold Darling, salary	35.00
Herman Kruse, salary	35.00
Ed. Kleinschmidt, salary	35.00
Emil Damman, salary	30.00
Mat. Heininger, salary	30.00
Al. McNamara, salary	30.00
Nelson Hoppe, salary	30.00
James Sumrer, salary	30.00
Charlie McLaren, salary	30.00
Chas. Carroll, salary	23.00
Frank Kapp, salary	23.00

Total salaries for ½ month of
January\$779.50

Police Fund

Frank Pardon, salary	\$ 41.66
Thomas O'Brien, salary	40.00
Wm. Blackburn, salary	35.00
Wm. J. Aprill, salary	35.00
Gustave Meyer, salary	35.00
Ruben Armbruster, salary	35.00
Ed. Blumhardt, salary	35.00
Frank Keihl, salary	35.00
Emanuel Sodt, salary	32.50
Earl Walker, salary	32.50
Marlene Howard, salary	32.50

Total salaries for ½ month of
January\$389.16

Poor Fund

J. H. Shadford, salary	\$ 35.00
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Cemetery Fund

Matthias Luippold, salary	\$ 50.00
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Park Fund

Ray E. Bassett, salary	\$125.00
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Water Works Fund

Geo. S. Vandawarker, salary	\$150.00
R. Spokes, salary	150.00
Dr. H. Emerson, salary	30.00
A. W. Cochran, salary	10.00
George Mann, salary	20.00
John Lindenschmitt, salary	20.00
Wirt Cornwell, salary	20.00

Total salaries for month of
January\$400.00

Contingent Fund**Engineering Department—**

Horace H. Person, labor	\$ 62.00
C. W. Smedberg, labor	101.50
F. E. Williams, labor	41.25

Total Eng. Dept.\$204.75

Sewer—

Emanuel Holzapfel, labor	\$ 2.00
James Mason, labor	36.84
Geo. A. Schaible, labor	4.22
J. Geo. Schaible, labor	2.00
Eugene Schlanderer, labor	1.78
Martin Walsh, labor	2.00
Fred G. Hanselman, team	2.00
Claud Young, team	28.25

Total sewer labor\$ 79.09

Washtenaw Gas Co., city hall (two
months)\$ 46.18

Eastern Mich. Edison Co., city hall
and clock .. 39.06

Mich. State Tel. Co., rentals..... 97.56

H. J. Abbott, P. M., postage..... 10.62

John P. Kirk, services, Schenk
case .. 370.80

A. F. Freeman, services, Osborn
and Schenk cases .. 315.00

Frank B. DeVine, expenses paid,
Schenk case .. 45.61

E. P. Goodrich, transcript, Schnei-
der case .. 20.00

League of Mich. Municipalities dues .. 15.00

R. L. Polk & Co., city directories.. 75.00

Keuffel & Esser Co., supplies .. 1.37

The C. F. Pease Co., supplies..... 2.29

George J. Bischoff, supplies .. 10.00

Albert Lutz, supplies .. 9.25

The Mayer-Schairer Co., supplies.. 21.80

W. H. L. Rohde, supplies .. 125.79

Schumacher & Backhaus, supplies. 12.00

George Wahr, supplies .. 27.95

Water Works Dept., supplies .. 2.72

D. F. Woodward, supplies .. 7.96

Sid. W. Millard, printing .. 8.50

The Times News Co., printing .. 150.70

Fred D. Levleit, curb, etc. 7.25

Overland Garage Co., repairs .. 3.70

Gus. J. Vogel, repairs .. .60

Wm. Robinson, repairs .. 2.50

Oswald A. Herz, repairs .. 19.20

Manley Osgood, expenses paid ... 1.92

Total supplies, etc.\$1,450.33

Contingent fund total\$3,387.49

Fire Fund

Eastern Mich. Edison Co., light...\$ 6.58

Washtenaw Gas Co., light (two
months) .. 22.13

White Swan Laundry Co., laundry .. 11.32

Dawson Bros., supplies .. 10.45

Dean & Co., supplies .. 5.00

H. G. Ehnis, supplies .. 7.55

Jno. C. Fischer Co., supplies..... 4.91

The Huron St. Grocery, supplies .. 2.25

D. J. Malloy, supplies .. 13.50

C. A. Sauer & Co., supplies .. 2.25

Schumacher Hardware Co., supplies .. 8.30

Staebler & Son, coal .. 197.45

Michigan Milling Co., bran and oats .. 14.00

Adolph Walters, hay .. 71.47

H. Clements, oats .. 29.62

The Machine Specialty Co., repairs .. 60

C. W. Cornell, horseshoeing .. 5.00

Seybold & Esslinger, horseshoeing. 11.55

Total supplies, etc.\$423.93

Fire fund total\$1,203.43

Police Fund

Mich. State Tel. Co., tolls.....\$.50

Standard Oil Co., gasoline	43.35
A. Clark, supplies .....	.60
Eberbach Pharmacy, supplies	1.50
Schumacher Hardware Co., supplies	4.80
City Taxicab Co., taxi service	2.00
Jay Miller, taxi service	3.00
Stark Taxi Co., taxi service	1.00
Stark-Woodbury Auto Co., cartage	1.20
Overland Garage Co., repairs auto..	15.50
D. J. Malloy, repairs	1.00
Stanger Furniture Co., repairs	3.25
Frank Pardon, rental of car	31.00

Total supplies, etc.	\$108.70
Police fund total	\$497.86

Poor Fund

Wm. E. Pardon, supplies	\$ 5.00
Schultz Bros., supplies	4.00
J. E. McGregor, supplies	7.49
Theurer & Walker, supplies	4.24
Anna M. Spathelf, supplies ..	4.00
Albert Mann, supplies	16.20
C. Schlenker, supplies	1.50
H. F. Miller, supplies	2.30
F. J. Muehlig, burial	10.00
Anna Ladd, care of old lady	3.50

Total supplies, etc.	\$ 58.23
Poor fund total	\$ 93.23

Cemetery Fund

Mort Bowen, labor	\$ 1.25
William Bowers, fertilizer	2.50

Total labor, etc.	\$ 2.75
Cemetery fund total	\$ 52.75

Dog License Fund

Joe Clay, burial	\$.50
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Street Lighting Fund

Eastern Mich. Edison Co., light...	\$1,543.18
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Water Works Fund

W. H. Willsher, services	\$ 37.50
Joel West, services	37.50
Leslie Bush, services	37.50
Robert Stoll, services	30.00
Fred Schwikert, services	30.00
John Ford, services	30.00
J. Schwikert, services	32.50
Henry Linde, services	32.50
John Wood, services	30.00
A. E. Hawkes, services	37.50
Cliff Shetterly, services	41.66
Louise Malloy, services	20.00

Total services for ½ month of	
January	\$401.66
L. Hazelschwerdt, labor	10.00
F. Rhodenbecker, labor	8.90
Joe Glazier, labor	2.50

Total labor	\$ 21.40
Jas. B. Clow & Sons, supplies	\$ 15.94
Ware Coupling & Nipple Co., sup- plies	10.26
The Mayer-Schairer Co., supplies ..	6.80
Jno. C. Fischer Co., supplies	3.35
Ohio & Mich. Coal Co., supplies ..	36.70
H. J. Hochrein, supplies	32.25
Neptune Meter Co., supplies	29.75
Albert Lutz, supplies	8.50
Staebler & Co., supplies	1.82
Lutz Clothing Co., supplies	15.00
Smith & Whelan, supplies	4.55
Eberbach & Son Co., supplies	4.42
The Detroit Edison Co., lights and power	72.27
C. F. Godfrey, cartage	28.36
Fred T. McOmber, insurance	335.50
Mich. Central R. R. Co., freight...	58.72
H. J. Abbott, postage	27.63

A. Miller, services	30.00
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Total supplies, etc.	\$721.82
Water Works fund total	\$1,544.88

Park Fund

Geo. E. Shimel, labor	\$ 2.44
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Park fund total	\$127.44
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Steere Farm Fund

Emanuel Holzapfel, labor	\$ 2.38
James Mason, labor	16.67
Martin Walsh, labor	4.63

Total labor	\$ 23.68
Eberbach Pharmacy, repairs, etc...	1.60
F. H. Tickner, gravel	3.00

Total gravel, etc.	\$ 4.60
Steere Farm fund total	\$ 28.28

Street Fund

Emanuel Holzapfel, labor	\$ 14.25
Sam Kalmbach, labor	1.78
Geo. J. Mack, labor	5.33
W. H. Romig, labor	9.33
Geo. A. Schaible, labor	12.67
Eugene Schlanderer, labor	30.22
Jacob F. Staebler, labor	4.56
Fred Ulrich, labor	46.84
Martin Walsh, labor	19.63
John Wendland, labor	14.11
Fred G. Hanselman, team	41.00
John Miller, team	20.50
Carl Rehberg, team	49.75
Emmett Schaffer, team	11.25
J. Geo. Schaible, team	19.44
John Seyfried, team	8.25
Claud Young, team	19.75

Total labor	\$328.66
Aetna Portland Cement Co., cement,	\$112.98

The Studebaker Corporation of America, supplies	22.50
Jno. C. Fischer Co., supplies .....	.29
Kyer & Whitker, supplies	1.35
Albert Lutz, supplies	7.50
D. J. Malloy, supplies	12.00
W. H. L. Rohde, supplies	21.48
Schumacher Hardware Co., supplies	3.20
Michigan Milling Co., bran	1.30
The John Koch Co., sand	7.00
E. A. Wisdom, repairs	3.40
C. W. Cornell, horseshoeing.....	4.55
Michigan Central R. R. Co., freight	.86

Total supplies, etc.	\$198.61
Street fund total	\$527.27

Recapitulation

Contingent fund	\$3,387.40
Fire fund	1,203.43
Police fund	497.86
Poor fund	93.23
Cemetery fund	53.75
Dog License fund .....	.50
Street Lighting fund	1,543.18
Water Works fund	1,544.88
Park fund	127.44
Steere Farm fund	28.28
Street fund	527.27

Total	\$9,007.31
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Ann Arbor, Mich., Feb. 7, 1916.

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. ROSS GRANGER, City Clerk.

To the Honorable, the Common Council: Gentlemen—Your Finance committee has reviewed the foregoing report. Warrants

for salaries were drawn Feb. 1, 1916. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts.

GEO. LUTZ, ALBERT FIEGEL, WM. P. FLYNN, Finance Committee.

Ald. G. Lutz moved the adoption of the report, which was adopted by unanimous vote of the Council, 15.

Ald. G. Lutz presented the following estimates from the City Engineer, as recommended to the Council by the Board of Public Works for payment:

First estimate sanitary sewer district No. 69, Tom Joyce contractor, amount due \$122.02.

Third estimate sanitary sewer district No. 72, Tom Joyce contractor, amount due \$59.00.

And the following final estimate:

Feb. 7th, 1916.

To the Board of Public Works, Ann Arbor, Mich.: Sirs—I present the following final estimate for furnishing labor and material for the construction of the sanitary sewer on Roosevelt ave. from Church st. to Forest ave., and recommend payment of the amount now due to Mr. Tom Joyce, the contractor:

204 lin. ft. 8" tile at 19c.....	\$ 38.76
9 sanitary tees at 60c	5.40
1 flushtank	75.00

Excavation and backfilling—

97.5 cu. yds. 0 to 6 ft. deep at 50c.	48.75
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21.4 cu. yds. 6 to 8 ft. deep at 60c.	12.84
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\$180.75

Less 5 per cent retained for one year	9.04
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\$171.71

Less amount of previous estimate	93.64
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Amount now due contractor..\$ 78.07

Respectfully submitted, Manley Os-good, City Engineer.

Ald. G. Lutz moved that amounts due be allowed and clerk draw warrants for same.

Adopted by unanimous vote of the Council, 15.

To the Honorable, the Common Council: Gentlemen—Your Finance committee, to whom was referred the bill of the Ann Arbor Civic association to the amount of \$104.04 to cover a deficit occasioned by the Civic association at the time of the State Grange convention in this city, would respectfully report that the city is under no obligations to pay the above bill, as the Council had

nothing whatsoever to do with the contracting of the different items in the bill. The act whereby the entertainment fund was created, out of which the above bill is expected to be paid, reads that the money shall be expended as the Council may from time to time order, and as your Council was not asked it could not very well order.

Your committee, however, is of the opinion that it would be a disgrace to the city to have the bill go begging and are satisfied if the Council had been asked for any assistance out of the entertainment fund it would have been cheerfully given, and rather than have a false impression go throughout the state, in the belief that the city was unwilling to pay anything for the entertainment of the convention, would therefore recommend that the bill be allowed, that the city clerk be instructed to draw a warrant to the amount of \$104.04 in favor of the Ann Arbor Civic association, and that hereafter only such bills are to be paid out of the entertainment fund as shall have been ordered by the Common Council.

Respectfully submitted, George Lutz, Albert Fiegel, Finance Committee.

Ald. G. Lutz moved the adoption of the report.

Adopted as follows: Yeas, Ald. Fiegel, Hanseimann, A. Lutz, Koernke, Heck, Sherk, Manwaring, McGregor, Freeman, G. Lutz, Sink, Pres. Wurster, 12. Nays, Ald. Heusel, Markey, Flynn, 3.

Fire Committee.

Ald. Heck presented the following estimates and proposals on furnishing the city a gasoline outfit for the Fire Department, and moved that the matter be referred to the Fire committee with power to act. It was so referred by unanimous vote of the Council, 15.

Wayne Tank Co., 280 gal. tank, 14 gage gal. iron complete..	\$170.00
280 gal. tank, 3-16 steel	178.00
Without meter	\$20.00 off.
Bowser Tank Co., 280 gal. tank 3-16 steel complete	\$211.00
280 gal. tank, 14 gal. iron...	189.00
Without meter	\$25.00 off.
American Tank Co., (Schumacher & Bachhaus), 280 gal. tank, 3-16 steel complete	177.00
280 gal tank, 12 gal. iron...	177.00
Without meter	\$20.00 off.
Gilbert & Barker pump &	

Tank (Standard Oil Co.) 5	
bbl. 285 gal. 14 gal. tank...	\$ 50.00
76 self measuring pump	60.00
10 ft. special 1" hose	9.50
Filter	8.00
100,000 gal meter for pump..	20.00

F. O. B. Ann Arbor.....\$147.50

Bond Committee.

Ald Markey presented the drug-gist bond of Rudolph J. Fischer as principal and E. J. Fischer and C. G. Darling as sureties, and moved approval of same.

Adopted by unanimous vote of Council, 15.

Sanitary Committee.

To the Council: Gentlemen—Your Sanitary committee, to whom the petition of A. A. Thompson relative to the establishment of a home for incurable consumptives in or near the city was referred, respectfully report that we find the Council has no jurisdiction in the matter.

Thos. Hanselman, F. E. Heck, John McGregor, Sanitary Committee.

Ald. Heck moved the adoption of the report, which was adopted by unanimous vote of the Council, 15.

Officers' Reports.

CITY FUNDS—Treasurer's Report For Month Ending, January, 1916:

Money Received—	
Contingent fund—	
Milk license	\$ 1.00
City scales by Chas. J. Andrews, chief	8.70
Bob sleighs sold by Chas. J. Andrews, chief	10.00
Theater license	172.00
Billiard and pool license	108.50
Peddlers' license	2.50
Plumber's license .....	.50
Bowling alley license	69.00
Taxicab license	1.00
Roller skating rink license	24.50
Interest on bank balance	327.00
Fees on taxes collected	482.15
Transferred from Lab. Acc. Pav. Dist. No. 33	312.21
Transferred from Lab. Acc. Pav. Dist. No. 34	984.15

Contingent fund total\$ 2,503.21

Cemetery fund—
Sale of lots\$ 27.50
Care of lots2.00

Cemetery fund total\$ 29.50

Dog license Fund—
License sold6.25
Police fund—
Frank Pardon, chief, city fees...\$ 10.05
Wm. G. Doty, justice, city fines. 340.00
John D. Thomas, justice, city fines5.00

Police fund total\$ 355.05

Street fund—
Repairs to pavement\$ 251.81
Repairs to sidewalk2.82
Sewer connections8.59
Omitted in December40

Driveways built70.90

Street fund total\$ 334.61

Park fund—
Rent of house, W. Park.....\$ 10.00
Shrubbery campaign125.00

Park fund total\$ 135.00

Sidewalk Building fund—

Walks built by city\$ 122.01

Delinquent Tax fund—

Received from H. P. Paul, County Treasurer

State Tax fund—

Taxes collected7,044.73

County Tax fund—

Taxes collected5,834.48

School Tax fund—

Taxes collected14,436.90

Uncollected City Tax fund—

Taxes collected5,180.11

Water Works fund—

Received from Mgr. Vandawalker,\$16,592.15

Sprinkling Dist. No. 12—

Taxes collected2.83

Sprinkling Dist. No. 14—

Taxes collected17.90

Total\$55,497.93

Warrants paid.....\$90,155.83

Balance\$34,657.87

On hand Jan. 1, 1916\$198,847.99

On hand Feb. 1, 1916\$164,190.12

Condition of City Funds on the First Day of February, 1916:

Warrants Paid—

Contingent fund\$ 2,437.94

City Cemetery fund50.00

Fire Department fund1,630.05

Poor fund136.60

Police fund847.47

Street fund424.77

Water fund5,378.33

Park fund166.75

Street Light fund1,574.81

Bridge Culvert and Crosswalk fund

State Tax fund45,000.00

County Tax fund15,000.00

School Tax fund15,000.00

Water Works fund1,972.34

Steere Farm fund178.22

Total\$90,155.83

On Hand—

Contingent fund\$ 2,642.57

City Cemetery fund426.82

Dog License fund48.26

State Dog Tax fund100.00

Fire Department fund18,445.92

Police fund4,101.45

Poor fund1,513.55

Street fund914.49

Park fund750.53

Street Light fund4,470.52

Sidewalk fund48.50

Bridge Culvert and Crosswalk fund

State Tax fund11,004.24

County Tax fund31,645.07

School Tax fund45,434.13

Rejected Tax fund117.53

Sprinkling Dist. No. 1527.11

Water Works fund42,941.58

Steere Farm fund397.85

Entertainment fund520.00

Total\$177,115.13

Overdrawn	12,925.01
On hand Feb. 1, 1916	\$164,190.12
Overdrawn—	
Water fund	\$ 794.08
Sidewalk Building fund	391.47
Uncollected City Tax fund	8,429.01
Delinquent Tax fund	2,843.49
Sprinkling Dist. No. 11	220.61
Sprinkling Dist. No. 12	126.58
Sprinkling Dist. No. 13	66.86
Sprinkling Dist. No. 14	52.91

Total	\$12,925.01
Warrants Outstanding—	
Contingent fund	\$ 212.67
Poor fund	1.50
Street fund	14.18
Park fund	11.45
Water Works fund	511.64

Total

SEWER FUNDS—Treasurer's Report For Month Ending January, 1916:

Tax Acc. Sewer Dist. No. 48—	
Taxes collected	\$ 9.58
Tax Acc. Sewer Dist. No. 51—	
Taxes collected	9.26
Tax Acc. Sewer Dist. No. 52—	
Taxes collected	7.43
Tax Acc. Sewer Dist. No. 53—	
Taxes collected	8.27
Tax Acc. Sewer Dist. No. 56—	
Taxes collected	34.48
Tax Acc. Sewer Dist. No. 59—	
Taxes collected	20.58
Tax Acc. Sewer Dist. No. 60—	
Taxes collected	5.76

Total	\$ 95.36
Warrants paid	387.45

Overdrawn	\$ 292.09
On hand Jan. 1, 1916	\$ 4,591.79

On hand Feb. 1, 1916

Condition of Sewer Funds on the First Day of February, 1916:

Warrants Paid—	
Tax Acc. Lateral Sewer No. 71..	\$ 93.64
Tax Acc. Lateral Sewer No. 72..	293.81

Total

On Hand—

Tax Acc. Lateral Sewer No. 27..	\$ 13.03
Tax Acc. Lateral Sewer No. 35..	276.47
Tax Acc. Lateral Sewer No. 41..	132.55
Tax Acc. Lateral Sewer No. 42..	223.79
Tax Acc. Lateral Sewer No. 44..	208.85
Tax Acc. Lateral Sewer No. 45..	250.62
Tax Acc. Lateral Sewer No. 46..	497.60
Tax Acc. Lateral Sewer No. 47..	525.70
Tax Acc. Lateral Sewer No. 48..	246.34
Tax Acc. Lateral Sewer No. 49..	4.55
Tax Acc. Lateral Sewer No. 52..	9.61
Tax Acc. Lateral Sewer No. 57..	34.53
Tax Acc. Lateral Sewer No. 58..	143.51
Tax Acc. Lateral Sewer No. 60..	176.70
Tax Acc. Lateral Sewer No. 62..	75.34
Tax Acc. Lateral Sewer No. 63..	18.24
Labor Acc. Lateral Sewer No. 49,	43.18
Labor Acc. Lateral Sewer No. 51,	301.12
Labor Acc. Lateral Sewer No. 52,	55.28
Labor Acc. Lateral Sewer No. 53,	889.15
Labor Acc. Lateral Sewer No. 54,	91.26
Labor Acc. Lateral Sewer No. 63,	570.69
Labor Acc. Lateral Sewer No. 68,	631.00
Labor Acc. Lateral Sewer No. 69,	230.00
Labor Acc. Lateral Sewer No. 70,	440.00
Labor Acc. Lateral Sewer No. 71,	148.36

Labor Acc. Lateral Sewer No. 72, 9,932.12

Total	\$16,169.62
Overdrawn	11,869.92

On hand Feb. 1, 1916

Overdrawn—

Tax Acc. Lateral Sewer No. 32..	\$ 909.69
Tax Acc. Lateral Sewer No. 33..	58.68
Tax Acc. Lateral Sewer No. 34..	1,299.21
Tax Acc. Lateral Sewer No. 36..	245.07
Tax Acc. Lateral Sewer No. 37..	127.23
Tax Acc. Lateral Sewer No. 38..	157.41
Tax Acc. Lateral Sewer No. 39..	475.31
Tax Acc. Lateral Sewer No. 40..	494.41
Tax Acc. Lateral Sewer No. 43..	49.16
Tax Acc. Lateral Sewer No. 50..	172.38
Tax Acc. Lateral Sewer No. 51..	224.05
Tax Acc. Lateral Sewer No. 53..	846.41
Tax Acc. Lateral Sewer No. 54..	43.88
Tax Acc. Lateral Sewer No. 55..	185.31
Tax Acc. Lateral Sewer No. 56..	1,036.63
Tax Acc. Lateral Sewer No. 59..	79.77
Tax Acc. Lateral Sewer No. 61..	577.14
Tax Acc. Lateral Sewer No. 64..	185.17
Tax Acc. Lateral Sewer No. 65..	64.15
Tax Acc. Lateral Sewer No. 66..	103.16
Tax Acc. Lateral Sewer No. 67..	157.49
Labor Acc. Lateral Sewer No. 42,	170.03
Labor Acc. Lateral Sewer No. 43,	161.63
Labor Acc. Lateral Sewer No. 44,	204.26
Labor Acc. Lateral Sewer No. 45,	247.32
Labor Acc. Lateral Sewer No. 46,	538.53
Labor Acc. Lateral Sewer No. 47,	532.71
Labor Acc. Lateral Sewer No. 48,	199.27
Labor Acc. Lateral Sewer No. 50,	98.35
Labor Acc. Lateral Sewer No. 54,	270.88
Labor Acc. Lateral Sewer No. 55,	423.08
Labor Acc. Lateral Sewer No. 57,	247.37
Labor Acc. Lateral Sewer No. 58,	166.85
Labor Acc. Lateral Sewer No. 59,	164.92
Labor Acc. Lateral Sewer No. 60,	68.57
Labor Acc. Lateral Sewer No. 61,	733.82
Labor Acc. Lateral Sewer No. 62,	150.60

Total

PAVING FUNDS—Treasurer's Report for Month Ending January, 1916:

Money Received—

Tax Acc. Paving Dist. No. 10—	
Taxes collected	\$ 58.97
Tax Acc. Paving Dist. No. 15—	
Taxes collected	6.53
Tax Acc. Paving Dist. No. 16—	
Taxes collected	20.15
Tax Acc. Paving Dist. No. 17—	
Taxes collected	12.63
Tax Acc. Paving Dist. No. 18—	
Taxes collected	57.88
Tax Acc. Paving Dist. No. 19—	
Taxes collected	27.08
Tax Acc. Paving Dist. No. 20—	
Taxes collected	42.05
Tax Acc. Paving Dist. No. 21—	
Taxes collected	21.69
Tax Acc. Paving Dist. No. 24—	
Taxes collected	10.99
Tax Acc. Paving Dist. No. 26—	
Taxes collected	9.80
Tax Acc. Paving Dist. No. 28—	
Taxes collected	85.51
Tax Acc. Paving Dist. No. 29—	
Taxes collected	75.96
Tax Acc. Paving Dist. No. 30—	
Taxes collected	163.22

Total

Warrants paid

Overdrawn	\$ 705.35
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On hand Jan. 1, 1916\$18,794.41
 On hand Feb. 1, 1916\$18,089.06
 Condition of Paving Funds on the First
 Day of February, 1916:
 Warrants Paid—
 Tax Acc. Pavement No. 21.....\$ 1.45
 Labor Acc. Pavement No. 33.... 312.21
 Labor Acc. Pavement No. 34.... 984.15

Total\$ 1,297.81

On Hand—

Tax Acc. Pavement No. 5.....\$ 1,079.01
 Tax Acc. Pavement No. 6..... 76.20
 Tax Acc. Pavement No. 7..... .05
 Tax Acc. Pavement No. 8..... 641.09
 Tax Acc. Pavement No. 11..... 789.70
 Tax Acc. Pavement No. 13..... 308.35
 Tax Acc. Pavement No. 14..... 461.59
 Tax Acc. Pavement No. 15..... 514.71
 Tax Acc. Pavement No. 16..... 214.96
 Tax Acc. Pavement No. 17..... 343.27
 Tax Acc. Pavement No. 18..... 1,489.83
 Tax Acc. Pavement No. 19..... 858.71
 Tax Acc. Pavement No. 21..... 1,197.47
 Tax Acc. Pavement No. 22..... 254.21
 Tax Acc. Pavement No. 23..... 948.87
 Tax Acc. Pavement No. 24..... 293.34
 Tax Acc. Pavement No. 25..... 39.06
 Tax Acc. Pavement No. 27..... 1,585.34
 Tax Acc. Pavement No. 28..... 2,603.37
 Tax Acc. Pavement No. 29..... 2,144.05
 Tax Acc. Pavement No. 30..... 675.42
 Labor Acc. Pavement No. 20.... 254.34
 Labor Acc. Pavement No. 32.... 243.61
 Labor Acc. Pavement No. 33.... 1,149.69
 Labor Acc. Pavement No. 34.... 4,188.83

Total\$22,355.07
 Overdrawn 4,266.01

On hand Feb. 1, 1916\$18,089.06

Overdrawn—

Tax Acc. Pavement No. 9.....\$ 1,418.25
 Tax Acc. Pavement No. 10..... 1,796.86
 Tax Acc. Pavement No. 12..... 90.79
 Tax Acc. Pavement No. 20..... 280.86
 Tax Acc. Pavement No. 26..... 19.97
 Labor Acc. Pavement No. 30.... 265.89
 Labor Acc. Pavement No. 31.... 126.15
 Labor Acc. Pavement No. 35.... 267.24

Total\$ 4,266.01

Recapitulation

City funds on hand\$164,190.12
 Sewer funds on hand 4,299.70
 Pavement funds on hand 18,089.06

Total\$186,578.88
 Bank balance\$184,628.82
 Cash on hand 1,950.06

Total\$186,578.88
 Respectfully submitted: GEO. W. SWEET,
 City Treasurer.

Farmers and Mechanics Bank, Ann Arbor,
 Mich., Feb. 5, 1916.

Common Council, Ann Arbor, Mich.—
 This is to certify that Geo. W. Sweet,
 City Treasurer, had on deposit at the
 close of business January 31st, 1916,
 \$184,628.82.

FARMERS & MECHANICS BANK, per
 Hugo E. Mann, bookkeeper; Fred Stowe,
 cashier.

Justice John D. Thomas' report
 for quarter ending Jan. 1st, 1916, re-
 ports of City Treasurer, City Clerk
 and City Marshal for month of Jan-

uary and Annual Report of Board of
 Public Works received and ordered
 to take usual course and filed.

ANNUAL REPORT

BOARD OF PUBLIC WORKS

1915-1916.

To the Board of Public Works, Ann
 Arbor, Michigan:

Sirs—I submit the following report
 of work done, under my direction,
 in the Engineer's Department during
 the year ending Dec. 31, 1915. It is,
 Very respectfully submitted, MAN-
 LEY OSGOOD, City Engineer.

PAVING.

Cost of Materials: Cement cost
 \$1.13 per barrel net with sacks re-
 turned, f. o. b. cars in Ann Arbor;
 washed pebbles cost \$1.50 per load of
 about 11-3 cubic yards delivered on
 the street, washed sand cost \$1.25 per
 load of about 11-3 cubic yards de-
 livered on the street; water costs
 twenty-five cents per one hundred
 cubic feet of complete concrete;
 joint protection plates costs 9 1-2c per
 foot of expansion joint, f. o. b. Ann
 Arbor; Elastite expansion joint ma-
 terial cost \$.0234 per lin. ft. for the
 1-4" thickness and \$.0118 per lin. ft.
 for the 1-8" thickness, f. o. b. Ann
 Arbor; and reinforcing mesh cost 81c
 per one hundred square feet of rein-
 forcing, f. o. b. Ann Arbor; day labor
 was 20c per hour for the ordinary
 class and 25c for the better class;
 teams cost 50c per hour.

**Hill Street, District No. 31, State
 Street to Washtenaw Ave.:** By the
 adoption of the Street Committee Re-
 port on June 15, 1914, the Common
 Council resolved that "no storm sew-
 ers or pavement be built on this street
 at present." This district therefore
 remains in the same condition as a
 year ago, with the curbing built in
 that block between Church street and
 Forest avenue. The total costs to
 date in this district have been as fol-
 lows:

Curbing \$151.80
 Engineering 55.64

Total \$207.44

**West Ann Street, District No. 32,
 From Main Street to First Street:** On
 Sept. 7, 1914, the Common Council
 ordered the paving of this district ac-
 cording to plans and specifications as
 recommended by you. The work was
 advertised for bidding but no pro-
 posals were received. The curbing
 was built in this district at once
 upon your order to proceed with the

construction, but when same was completed, it was your decision that the weather had become too uncertain to proceed with the grading and concrete construction in 1914. This district was therefore completed during the past year. The pavement is a two course, concrete, pavement with American Steel & Wire Co.'s No. 29 wire mesh reinforcing placed between the two courses. The lower course is 5" thick, the concrete being composed of one part cement, 2 1-2 parts sand, and four parts pebbles, all sand and pebbles being washed and screened. The top 2" is composed of one part cement to two parts of washed sand or gravel screenings. The transverse joints, which are spaced 30 feet apart, are protected with steel plates manufactured by the R. D. Baker Co. of Detroit, and are filled with Carey's Elastite 1-4" thick, put in place during construction. The longitudinal joints along the curb are filled with Carey's Elastite. This work was commenced early in September and completed in about five or six weeks. All of the concrete mixing was done in a batch mixer designed especially for street paving. This mixer was rented by the City from Barnes & O'Neil for this work. A thoroughly mixed concrete was obtained much cheaper than would have been possible if one of mixers owned by the City had been used. This pavement is 34 feet wide between Main and Ashley and 30 feet wide between Ashley and First, there being 2085 square yards of pavement and 1043 lineal feet of curbing in the district. The total cost as shown in my report to you dated Nov. 16, 1915, was \$2,740.80 and the unit costs were as follows:

Total cost per square yard	.....\$1.33
Cost grading and paving per square yard	..... 1.21
Cost paving only, per square yard	..... 1.02
Cost excavation per cubic yard	0.51

The cost for Engineering only in this district was \$105.00 a unit cost of \$0.05 per square yard, or 3.9 per cent of the total cost. This includes all preliminary surveys, plans, profiles, estimates, staking out, tests for materials, reports, and boundaries for assessment districts and includes all portion of the time of men working on a monthly salary properly chargeable to this account. The cost for

superintendence and use of tools was \$0.062 per sq. ft.

The driveways in this district which were paved or curbed contain 152.6 sq. yds. of pavement and 38 lin. ft. of curbing, which are included in the totals given above. For this curbing, grading and paving in drives, the City will collect at once \$173.19.

East Jefferson St., Dist. 33, From Fifth Ave. to State St. and Division St., Dist. 34, From Detroit St. to Packard St: On May 5th, 1915, bids were received on Ann Arbor Tarred concrete, Reinforced concrete, Vitri-fied brick, Asphaltic concrete, and Bitulithic pavements for these districts. Owing to a charter provision which required bids to be taken on one kind of pavement only, all bids were rejected and you recommended the construction of asphaltic concrete pavements on these streets. This recommendation was adopted by the Common Council and bids again received on Asphaltic concrete pavement, only, for these districts on June 2, 1915. The contract was awarded to the Good Roads Construction Company of Chicago, Ill., who commenced work on July 8th. The work has been completed but final estimates have not yet been allowed on account of the financial entanglements in which this company has become involved. This street has a two inch asphaltic concrete surface laid on a six inch cement concrete base. A concrete curb and gutter was built along each side. All of the sand and gravel used was washed and screened and remixed as used. The crushed stone which was used in the asphaltic concrete mixture was a crusher run of trap rock and granite obtained by crushing the old field stone curbing and the cob-bles removed from the streets. All materials used in the construction of these pavements were subjected to repeated tests and inspection and this department had a representative on the work at all times to see that the same was properly done.

The pavement on Jefferson street is thirty feet wide and that on Division street is thirty-four feet wide between the face or roadway side of the curbs. The items of construction together with the total and unit costs of the two streets are given in the following table:

Items of Construction—	Contract price on both streets.	Jeff. St.	Div. St.
No. cu. yds. excavation	\$.40.....	1750	5110
No. lin. ft. curb and gutter .....	.40.....	2862.5	7965.6
No. lin. ft. curbing, only .....	.35.....	408.1	1074
No. cu. yds. concrete base	3.00.....	826.8	2410.1
No. sq. yds. asphaltic concrete surface....	.75.....	4924.2	14372.5
Total Costs—			
Total contract cost		\$8,161.39	\$23,615.82
Cost for Engineering and monument castings		296.50	558.30
Cost for Inspection and testing materials		207.51	559.85
Total cost		\$8,665.40	\$24,733.97
Cost for curbing, grading and paving in private driveways		\$ 277.26	\$ 657.75
City's share of cost of pavement.....		3,035.56	6,468.86
Property owner's share of cost of pavement, to be spread on assessment roll.....		5,252.58	17,607.36
Amounts paid contractors plus deductions		7,011.70	19,426.99
Unit Costs—			
Cost per square yard, complete.....		\$1.62	\$1.60
Cost per square yard, for pavement only, not including curbing and grading		1.30	1.29
Cost per square yard for Engineering.....		0.053	0.035
Cost per square yard for Inspection.....		0.039	0.036
Percent of total cost for Engineering.....		3.4	2.3
Percent of total cost for Inspection.....		2.4	2.3

The above unit costs are based upon a total area of 5322 sq. yards on Jefferson street and 15,579 sq. yds. on Division street. This includes the area of the concrete gutter with that of the pavement, and bases the unit costs on the area between curb faces as all unit costs have been based heretofore. The cost of engineering on these two streets was increased considerably by the preparing of new general specifications and specifications for vitrified brick, reinforced concrete, asphaltic concrete, and bitulithic pavements, all of which were charged against these two streets. The cost for engineering includes also all items as for Ann street above except the cost of testing materials which is included here under the item of inspection.

The amounts shown above for curbing, grading and paving in driveways on these streets is now being collected by the City Treasurer from the respective property owners.

The Good Roads Construction Company, contractors who constructed these two pavements are under bond in the sum of Eight Thousand dollars to maintain these two pavements during a period of five years after the final payment and to make any repairs necessary, at the end of the five years, to place them in condition practically as good as just after completion. The amounts still due the

contractors are \$1,149.69 on Jefferson and \$4,188.83 on Division st.

Geddes Ave., District No. 35, From Oxford Road to Oswego Street: On April 19th, 1915, the property owners on Geddes avenue between Oxford road and Oswego street petitioned the Council to have this district paved during 1915 and agreed to pay their assessed share, on the basis of the engineer's estimate before the commencement of the work. The petition was granted on April 26th, on condition that the city be assured of the payment of the University's portion of the cost, and you were asked to present to the Council plans, specifications, and an estimate of the cost of paving this district with reinforced concrete. Your instructions to me were that I carry out the orders of the Council and on July 6, 1915, I presented to the Council such plans, specifications and estimate of cost. These were approved by the Council and, the entire property share of the cost of the pavement having been guaranteed, you were instructed to proceed according to the charter and ordinance relative to paving. Bids were received by you on July 27, 1915, and the contract was awarded to Messrs. Barnes & O'Neil of Allegan, Michigan. The commencement of construction work was somewhat delayed by the necessity of building a storm sewer prior

to the construction of the pavement to care for the surface water in this district. The actual construction work was commenced about September 20th and completed on October 30th. Final estimate was allowed the contractors by you on November 15th, 1915. This street is a two course concrete pavement with Kahn reinforcing mesh, manufactured by the Trussed Concrete Steel Co. of Detroit, placed between the two courses. The lower course is five inches thick, the concrete being composed of one part cement, two and one-half parts of sand, and four parts of pebbles, all sand and pebbles being washed and screened and remixed as the pavement was laid. The top course, two inches thick, is composed of one part cement to two parts of washed sand or gravel screenings. The transverse joints, which are spaced thirty feet apart, are protected with steel plates manufactured by the Trussed Concrete Steel Company of Detroit and are filled with an asphaltic expansion joint material one quarter inch thick, which is manufactured by the same company. This comes prepared in short flat strips and was put in place during construction. The longitudinal joints along the curbing are filled with the same material and in the same manner. All of the concrete mixing was thoroughly done in a batch concrete mixer designed especially for concrete pavement construction. All materials used in the construction of this pavement was subjected to repeated tests and inspection and this department had a representative on the work at all times to see that the same was properly done. The sub-base underneath this pavement being an impervious clay, a drain tile was placed under each curb, in a trench filled with pebbles, to prevent the accumulation and freezing of water underneath the pavement.

This pavement is thirty feet wide, there being 3,273 sq. yds. of paving and 1,840 lin. ft. of curbing in the district. The total cost as shown by my report to you dated November 15 was \$5,431.55, the contract cost being \$5,175.00 of the above total. The unit costs were as follows:

Cost of paving, complete, per sq. yd.	\$1.66
Cost of grading and paving, per sq. yd.	1.43
Cost of paving, only, per sq. yd..	1.19
Contract cost of excavation, per	

cubic yd. 0.45

The cost for engineering in this district was \$150.00, a unit cost of \$.046 per sq. yd., or 2.8 per cent of the total cost. This includes all preliminary surveys, plans, profiles, estimates, staking out and reports and includes all the time of men working on a monthly salary properly chargeable to this account. The cost for testing materials and inspection was \$98.77, a unit cost of \$.03 per sq. yd., or 1.8 percent of the total cost.

The driveways in this district which were paved and curbed contain 92.6 sq. yds. of paving and 69 linear feet of curbing which are included in the total given above. For this curbing, grading and paving in drives, the City Treasurer is now collecting \$144.27 from the respective property owners.

Catherine Street and Miller Avenue, From Main Street to Seventh Street: On Sept. 20, 1915, the Council asked that plans, specifications and an estimate of the cost of paving Catherine street from Main street to Allen's creek and Miller avenue, from Allen's creek to Gott street be prepared and presented to them as soon as possible. On Nov. 1, a petition was received by the Council for paving Miller avenue from Gott street to Seventh street and likewise referred to you for plans, specifications and an estimate of the cost. The field work necessary to prepare these plans has been completed and the office work of preparing same has been started but not yet completed. The cost for this engineering work to date has been \$30.88. You have not yet determined with what material this district should be paved.

Reconstruction and Maintenance: Some of the pavements constructed many years ago are now beginning to wear out and in 1914 the old asphalt-block-on-sand pavement on State street between William street and Liberty street was replaced with a modern brick-on-concrete-foundation pavement at a cost of \$4,572.98, all of which was paid by the city at large. It was not deemed necessary or advisable to do any further repaving during the year 1915, but some large holes in our asphalt block streets were repaired with the same material and other holes in both asphalt block and concrete streets were repaired with asphaltic concrete mixture. This work was all done by the street department and the cost will be shown

in their report. The success of these patches cannot be determined until they have had a longer period of wear. Pavements, like other things, will wear out in time, and the expense of maintenance and reconstruction will increase in the future until the annual cost for the same becomes quite large. This maintenance, resurfacing, or reconstruction of our pavements is a matter for careful consideration and scientific study and each particular case should be referred to this department for investigation and report on the proper methods to be adopted.

General: This year marks the return to standard engineering practice in pavement construction. For six years, from 1909 to 1914 inclusive, the Ann Arbor tarred concrete pavement had been laid on all streets paved. This year the concrete pavement laid on West Ann street and Geddes avenue were reinforced and protected according to the recommendations of engineers who have made exhaustive studies of this type of pavement. The tar and sand carpet coating was not placed over these two pavements. The asphaltic concrete pavements on Jefferson street and Division street are similar to the pavement which has given such good satisfaction on William street since 1907, the difference being in the size and grading of the stone which forms a part of the top two inches. The specifications for the asphaltic concrete part of these pavements was written and revised in consultation with C. A. Proctor, asphalt expert from the city of Detroit. In all pavements this year great care has been exercised to see that all materials used were strictly first class and that the pavements were properly constructed from these materials. This return to

standard constructions will certainly result in a saving to the city in future years on the items of pavement maintenance, repair, and reconstruction.

This year marks, also, a return to awarding pavement construction to contract. All of the concrete pavements laid from 1909 to 1914 inclusive were built by city force account but this year only the pavement on West Ann street was constructed by the city force, the remainder having been let to the lowest bidder.

Statement of Kinds of Pavement In Ann Arbor.

Brick on concrete.....	25,617 sq. yds.
Brick on sand	1,589 sq. yds.
Asphaltic block on sand	32,494 sq. yds.
Bitulithic	7,519 sq. yds.
Asphaltic concrete ...	19,297 sq. yds.
Reinforced concrete ..	5,358 sq. yds.

Ann Arbor Tarred Concrete—

Laid in 1909.....	1,883
Laid in 1910.....	16,557
Laid in 1911.....	64,089
Laid in 1912.....	11,537
Laid in 1913.....	33,463
Laid in 1914.....	11,832

Total	139,361 sq. yds.
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Total	231,235 sq. yds.
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Summary: The cost of pavement construction completed this year was:

West Ann street, Dist. 32..	\$ 2,740.80
East Jefferson St., Dist. 33.	8,665.40
Division street, Dist. 34....	24,733.97
Geddes avenue, Dist. 35....	5,431.55

Total	\$41,571.72
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The total original cost of paving done in Ann Arbor to date, exclusive of macadamizing Detroit street and South University avenue, has been \$368,394.08. The paving completed in 1915 is shown in detail by the following table:

SUMMARY OF PAVING DONE IN 1915

Streets and Limits	District	Width	Kind of pavement	Nature of work done	Total cost	City to pay	Property to pay	Square yards pavement	Lin. feet of curb and gutter	Cost of excavation	Total cost per sq. yd.	Cost paving only per sq. yd.
W. Ann st.— Main st. to 1st st.	32	30 & 34	Reinforced concrete	New paving	\$2740.80	\$626.30	\$1941.31	2085	1043	\$263.42	\$1.33	\$1.02
E. Jefferson st.— 5th av. to State st.	33	30	Asphaltic concrete	New paving	8665.40	3035.56	5252.58	4924.2	3270.6	700.00	1.62	1.30
Division st.—Detroit st. to Packard st.	34	34	Asphaltic concrete	New paving	24733.97	6468.86	17607.36	14372.5	9039.6	2044.00	1.60	1.29
Geddes av.—Oxford rd. to Oswego st.	35	30	Reinforced concrete	New paving	5431.55	1599.40	3687.82	3273.0	1840.0	726.30	1.66	1.43
				Total	41571.72							

All re-surfacing and patching of wearing surface on tar-concrete and asphalt block pavements and renewing asphalt blocks in asphalt block pavements done by Street Commissioner's Department.

SANITARY SEWERS.

Five new sanitary sewer districts were established this year, profiles, estimates, and the boundaries of the assessment districts prepared and the work let to contract. No sanitary sewer districts remained incomplete at the beginning of this year, but four out of five districts established during the year are not yet finished although the work is still progressing on same. A complete new set of sewer specifications was prepared this year and govern the contracts awarded. The most important changes introduced into these specifications are as follows: (1) The Contractor employs men to lay and cement tile and the city's inspector watches all parts of the work to see that same is properly done, instead of the city's employes laying and cementing tile all the time so that they have no opportunity to observe other operation. (2) Payments for excavation and backfilling are made on a cubic yard basis, the maximum and minimum widths of trench being specified and the unit price increasing with the depth, instead of on a lineal foot basis. This makes a fairer method of payment for both contractor and city, the one receiving payment and the other paying for only the work actually performed. (3) The expense of caring for service pipes or other obstructions which must be removed from the line or grade of the sewer is to be born by the district as extra work, thus eliminating from the contract an item of chance on which the contractor always figures a liberal allowance. (4) The general specifications and specifications for backfilling trenches were made more explanatory and stringent so that the work in all branches must be carefully and skillfully performed.

The progress of work on the districts established during the year is given in the following paragraphs:

District No. 68: Seventh street from Huron street to Miller avenue and on Bath street and Willow street west of Seventh street. Plans for this sewer were partially prepared during 1914 and were completed during the first half of 1915. This is a ten-inch vitrified tile emptying into the eight-inch sanitary sewer on Chapin street and extending west in the valley through West Park and the D. U. R. right of way onto the property recently purchased from M. J. Fritz

for park land. Here it divides, one eight-inch branch being laid to Seventh street along each of the two small streams which flow through this property. Into each of these two branches, which are at the low point in the two valleys, the eight-inch sewer on Seventh street drains from both directions. Eight-inch sewers on Bath and Willow streets empty at their respective places into the sewers on Seventh street. Sanitary tees with four-inch openings were left in the line of the sewers on Seventh street, Bath street, and Willow street for the connection from each building site. Right of way for this sewer was granted by the D., J. & C. Ry Co., Mr. S. C. Andres, and the property owners along each side of Willow street which has not yet been accepted by the city. The work in this district was let to Messrs. Eddy & Son of Saginaw on September 29th and the contract approved by the Council October 4th. The contract has been completed, and a final estimate was allowed Dec. 20, 1915. The cost has been distributed as follows:

Contract cost	\$3,154.73
Engineering	293.56
Inspection	144.85

Total\$3,593.14

Of the above contract cost, five percent, or \$157.73, has been retained for one year as a fund from which to deduct the cost of any repairs to the sewer or repairs to the street made necessary by the construction of the sewer which may become apparent within a year. The balance of this five percent after any such costs have been deducted will become due to Messrs. Eddy & Son on Dec. 20, 1916. The cost for all engineering and clerical work in connection with this district and the cost of inspection, together, amount to 13.9 percent of the contract cost. The cost for engineering and clerical work alone is 9.3 percent, being higher than the average because of the necessity of running an extended stadia survey over the property between Chapin street and Seventh street to determine the best location for the sewer.

District No. 69: Mosely street, from Second street to Third street, is to be an eight-inch vitrified tile sewer extension of the sewer on Mosely street east to Second street. The flush tank at Second street is to be changed into a manhole and a new

flushtank constructed at the Third street end. The contract for this sewer was awarded to Mr. Tom Joyce of Kokomo, Indiana, on September 29, together with contract for Districts No. 70, 71 and 72. No work has been done by Mr. Joyce in District 69. The cost for engineering on this district to date has been \$17.70.

District No. 70: West. street, from Main street about 550 feet west, will be an eight-inch vitrified tile sewer emptying into the eight-inch sewer of the same material on South Main street. The contract for this sewer was awarded to Mr. Tom Joyce of Kokomo, Ind., on September 29th, as above stated but he has done no work in this district to date. The cost for engineering on this district to date has been \$16.88.

District No. 71: Roosevelt avenue, from Church street to Forest avenue, is to be an eight-inch vitrified tile sewer emptying into the Church street sewer of the same size and material. This contract, also, was awarded to Mr. Tom Joyce on September 29th but no work on this district was done by him during 1915. The engineering cost on this district to date has been \$7.76.

District No. 72: For all of the Hamilton, Rose, & Sheehan addition and that part of Granger avenue between this addition and Packard street, is the largest sewer contract awarded since 1897. Because the sewer already existing on State street from Edwin street to Granger avenue had been laid on too

steep a grade to serve this territory, it was necessary to parallel this sewer on a flatter grade from Edwin street to the north line of the Hamilton, Rose, & Sheehan addition. The contract for this district was awarded to Mr. Tom Joyce of Kokomo, Ind, on September 29th and the contract approved by the Common Council on Oct. 4, 1915, together with the contract for districts No. 69, 70 and 71. Mr. Joyce commenced work on this district on November 8th and has progressed on State street from Edwin street to Dewey avenue. Some very difficult working conditions have been encountered and Mr. Joyce is now awaiting the arrival of some special materials before pushing the work forward. He expects to continue construction throughout the winter. The costs in this district to date have been as follows:

Payments to contractor.....	\$654.07
Work done for contractor....	6.08
Engineering	184.89
Inspecting	89.26

Total\$934.30

Payments of Five Percent Retained:

On sewers completed in 1914 and reported in my report for that year, the following amounts have been expended in payments to the contractor and for work done by the city in repair of streets made necessary by this sewer construction. In all cases these amounts aggregate the sum of the five percent which was retained for one year:

Dist. No.	Location.	Paid to Contractor.	Expended for repairs.	Contractor.
51.	Summit street	\$ 50.17	\$ 2.92	E. L. Schneider
55.	Washtenaw and Austin avenues	146.09	29.64	E. L. Schneider
56.	Third ward	357.98		E. L. Schneider
57.	Geddes avenue	27.18		E. L. Schneider
60.	Brown st., Fourth ave. and Philip st.	118.34	15.78	E. L. Schneider
61.	Detroit, Fourth ave. and Catherine st.	232.06		E. L. Schneider
62.	East Catherine st.....	7.53		Hochrein & Co.
63.	Sixth, 7th and 8th sts.....	210.44	7.50	Dederich & Eddy
64.	Third, 4th and 5th sts.....	34.29		E. L. Schneider
65.	Packard st.	11.88		Dederich & Eddy
66.	First st.	19.10		Dederich & Eddy
67.	Moore st.	29.16		Dederich & Eddy
		\$1,244.22	\$55.84	

Sanitary Sewer on Olivia Ave., from Wells street north about 130 feet laid in **Opening of Olivia ave.** On April 8, 1915, the Common Council, in

adoptng the Street Committee report, agreed for the city to "grade roadway and build sidewalk and sewers on the extension of Olivia avenue

from Minerva Road to Wells street upon the receipt of deed for same." This deed was received and recorded on April 27th. The sanitary sewer on this extension was constructed by this department at a total cost of \$150.21. It is an eight-inch vitrified tile sewer emptying into the sewer of the same size that runs south from Wells street on Olivia avenue. Four inch openings were left in the line of the sewer to receive the connection from each building site. The construction of sidewalks and grading of the street was done by the street department and the cost is given in their report. The grading is not yet completed. The total cost of the work done under your directions to date in the opening of this street has been as follows:

Sanitary sewer	\$150.21
Sid walk construction	133.20
Grading	65.11
Total	\$348.52

Washtenaw Avenue: On Washtenaw avenue, to accommodate the residence built by Mr. Gray at the northeast corner of Fair Oaks Parkway, it was necessary to extend the sewer built in District No. 55 about 150 feet to the northwest. The entire construction cost of this extension was borne by Mr. Gray under private contract with Schumacher & Backhaus of this city. The grade was given and the tile laid by this department at a total cost of \$9.80. It is an eight-inch vitrified tile extension, the flushtank siphon on the former end having been moved to the new end and the former flushtank changed to a manhole.

Tapping Sanitary Sewers: The policy of having a city employe do all necessary tapping of sanitary sewers has been followed throughout the year 1915. The total cost of this work was \$32.57.

Maintenance: The care and maintenance of existing sanitary sewers has cost, during 1915, the sum of \$685.52. This includes the cost of all material, labor, and tools and the amount paid to the Ann Arbor Water Department for water for flushing. It was necessary to clean sewers in between thirty and forty places scattered in all parts of the city. In

six places it was necessary to remove the siphons from the flushtanks in order to make possible the cleaning of the end from the last manhole to the flushtank. These siphons were always reset on a Y branch so that a plug may now be removed from the end of the tile and the flushtank used as a manhole for cleaning. This does not interfere with the automatic action of the siphon. Minor repairs were necessary in five places. On Jefferson street between Thompson and Maynard streets and on Division street between Detroit and Kingsley streets it was deemed advisable to build new manholes prior to the construction of the pavement. In order to control the supply of water to flushtanks, it was necessary to replace thirty stop cocks which had been cut out by running water and sand. In connecting a house to the sanitary sewer on Spring street between Miller avenue and Cherry street it was discovered that the main had broken and several tiles settled below grade, leaving a jumping up place in the flow line of the sewer. This was repaired, the tile being supported on plank so further settlement in this section will be impossible. The total cost of maintenance given above was distributed as follows:

Cleaning, flushing and inspecting	\$546.90
Repairs, including new steps in flushtanks	70.00
New manholes	68.62

Total \$685.52

Claims: Mr. E. L. Schneider, who was awarded the contract for building several sanitary sewer districts during 1913 brought suit against the city for \$1,828.05 that he claimed was still due him on two of these districts which he completed in 1914. This suit was tried in the December term of the Circuit court and the judge directed a verdict in favor of the city. The cost to the city in new department for work in connection with this claim and suit amounted to \$124.08.

Summaries: Summary of the sewer districts established during 1915 is given on the following page with tabulated information and costs of same.

SUMMARY OF SANITARY SEWERS BUILT DURING 1915									
Streets and Limits	District	Number house connections	Total length house conn.	Length of main	Manholes	Flush tanks	Light holes	Total cost	City to pay.....
Seventh st. from Miller av. to Huron st.....	68	77		4523	21	6	0	\$3593.14	\$1,565.56
Mosley st. from Second st. to Third st.....	69								
West st. from Main st. west	70								
Roosevelt av. from Church st. to Forest av.....	71								
Hamilton, Rose and Sheehan Addition	72								
Olivia av. from Wells st. north		6		188	0	1	1	150.21	
Totals		83		4711	21	7	1	\$3743.35	
Property to pay				\$2236.58					
Amount of contract				\$3154.73					
5 pct. retained on contract				\$157.73					
When due	Dec. 20, 1916			(Cost to date)					
Contractors	Wm. Eddy & Son Tom Joyce Tom Joyce Tom Joyce Tom Joyce City Force Acc.			(Cost to date) (Cost to date) (Cost to date) (Cost to date)					

STORM SEWERS AND CARE OF STORM WATER.

Madison, Division and Jefferson Streets Storm Sewer: A storm sewer emptying directly into Allen's Creek at Madison street and Fourth avenue and extending along the above streets in the order named to the corner of Jefferson and State streets was ordered by the Common Council on Sept. 21, 1914. This now receives the storm water from the pavements built last summer on Jefferson street east of Division street and on Division street south of Jefferson street. The contract for this sewer was let on November 2, 1914 to Messrs. Dederich & Eddy of Saginaw who proceeded with the construction as far as the corner of Jefferson and Division streets during 1914 and completed the same as early in 1915 as weather would permit. They were allowed final estimate May 3, 1915. This is all vitrified tile sewer, being twenty-four inches in diameter on Madison between Fourth avenue and Fifth avenue, eighteen inches in diameter on Madison and Division streets from Fifth avenue to Jefferson street, fifteen inches in diameter on Jefferson street from Division street to Maynard street and twelve inches in diameter on Jefferson street from Maynard street to State street. All of the inlets on these streets discharge into manholes in the sewer through twelve-inch vitrified tile extensions, making the whole easily accessible for cleaning. The cost of this sewer was distributed as follows:

Contract cost	\$3,443.06
Engineering	87.25
Laying tile and inspecting ..	115.86

Total\$3,646.17

Of the above contract cost, \$172.15 which is five percent, was retained for a maintainance fund during the first year after completion. The unused portion of this five percent will be due Messrs. Dederich & Eddy on May 3, 1916.

The above cost for engineering and for laying tile and inspecting added, is 5.9 percent of the contract cost.

East Jefferson Street: Storm sewer from Fifth avenue to Hamilton Place was ordered by the Common Council on Sept. 21, 1914. It is a twelve-inch vitrified tile sewer emptying into the fifteen-inch tile drain which runs in the east gutter on Fifth avenue, from Jefferson street to

Madison street where it was connected into the storm sewer at that point on Madison street. All the inlets at Fifth avenue and at Hamilton Place on Jefferson street are connected directly to manholes in the sewer through twelve-inch vitrified tile extension, thus making them easily accessible for cleaning. The contract for this sewer was awarded to Messrs. Dederich & Eddy on Nov. 2, 1914. The work was completed in 1915 and they were allowed a final estimate on May 3d. The cost of this sewer was distributed as follows:

Contract cost	\$489.40
Engineering	12.99
Laying tile and inspecting....	3.84

Total\$506.23

The customary five percent of the above contract cost, amounting to \$24.47, was retained and will be due the contractors on May 3, 1916. The cost for engineering, laying tile and inspecting as above is 3.4 percent of the contract cost.

Geddes Avenue: Storm sewer, from Linden street to the Boulevard, was ordered by the Council on Aug. 2, 1915, to care for the storm water from the pavement previously ordered on this street from Oxford Road to Oswego street. It is a twelve-inch vitrified tile sewer with inlets connected directly into the manholes. The outlet is the fifteen-inch storm sewer on Linden street. The contract was awarded to Mr. E. L. Schneider of this city on August 16, and work was completed and a final estimate allowed on Oct. 4, 1915. The cost of this sewer was distributed as follows:

Contract cost	\$1,010.00
Engineering	30.53
Laying tile and inspecting ..	15.68

Total\$1,056.21

Of the above contract cost, five percent or \$50.50 was retained for the making of any needed repairs to sewer or street during the first year after construction. All that remains of this fund will be due Mr. Schneider on Oct. 4, 1916.

The combined cost for engineering, laying tile, and inspecting as given above is 4.6 percent of the contract cost.

Edwin Street and McKinley Ave. Culverts: In 1911, a concrete box storm water culvert was constructed on State street, Arch street, White

street, and McKinley avenue from Edwin street to Packard street. A section of this on McKinley avenue about 232 feet long, was not constructed but left as an open ditch because the property owner would not sign an agreement to pay ten cents per square foot for the sidewalk on top of the culvert. The property has since changed hands and the present owner deposited with the city attorney, as did the property owners on Edwin street, sufficient to pay, at the above rate, for this sidewalk. The Council ordered the construction of this section of culvert on McKinley avenue and the extension of the culvert along Edwin street from State street to Division street on Sept. 20, 1915. Bids were received on September 22, but all bids were rejected and others received on October 4th on which date the contract was awarded to Messrs. Barnes & O'Neil of Allegan, Michigan. Construction work was commenced about November 1st and proceeded until December 9th when the winter weather made it necessary to discontinue work until spring. costs to date have been distributed as follows:

Payments to contractor	.....\$2,030.95
Engineering	.....76.09
Inspecting	.....101.70

Total\$2,208.74

Storm and Sanitary Sewers on Glen Avenue: The present sanitary sewer down Glen avenue, which was built by the University of Michigan about 1883, now carries so much storm water that at a time of severe rains, water is forced into the cellars along Glen avenue and even spouts out of the manholes. To relieve this condition a storm sewer for this district was first proposed in 1913 when some engineering work was done upon it. On July 6, 1915, this sewer was finally ordered by the Common Council to extend from the Huron river to the south line of Huron street. Bids were received on September 22d and on September 29th the contract was awarded to Messrs. Eddy & Son of Saginaw. On December 13th, the city accepted the proposition of the University of Michigan that they would pay for the extension of this sewer across their property from Huron street to the low point in Washington street between Twelfth street and Fourteenth street under the same contract with Eddy & Son, who have ex-

pressed their willingness to accept same. In order to accommodate the low point in Washington street, it is necessary that this sewer be constructed about twenty-eight feet deep at the corner of Glen avenue and Thirteenth street and while the trench is open an eighteen inch tile will be laid underneath the storm sewer to provide for the sewerage of Washington street between Twelfth and Fourteenth streets and for future University needs. No work has been done by the contractors on this sewer. The total engineering cost to date has been \$157.07.

Care of Storm Water in Connection with pavements: On Division street south from Liberty street and south from William street it was necessary to move the inlets which were at the south property line of these two streets about one hundred feet further south in each case. This was necessary in order to establish a proper grade for the Division street pavement. At the southeast corner of Division and Detroit streets an old catch basin type of inlet which was in very unsanitary condition was done away with and a regular inlet connected into the drain on Detroit street nearby. All of this work was done by city employes under my direction at a total cost of \$253.70.

On West Ann street, the down spout from the Whitney theater was connected into the West Ann street storm sewer at a cost of \$15.42 which Mr. B. C. Whitney has agreed to pay to the city and bill for which has been rendered him.

The adjusting of inlets on Division street and Jefferson street and Geddes avenue pavements was a part of the contractor's duties but the work was done by city employes and the cost of same deducted from the amounts due the contractor.

General Care of Storm Water: In several places during the year where property owners, to improve their extension lawns, built cement curb or curb and gutter in the proper place about their property, it became necessary to move and reset storm water inlets to conform to the new curbing. The total cost for this work was \$24.95.

Putting the gutter line on the east side of Fourth avenue, from the inlet at the south property line of Huron street, a ten-inch tile was extended about one hundred feet south. This

was to receive the storm water from a number of buildings which formerly emptied into a private alley at this point and ran into the cellars. The cost was \$77.35.

On Fourth avenue, just north of Packard street, the Council ordered two inlets placed to care for water which stood at this point after every rain. The storm drain which runs across Packard street and empties into the gutter on Fourth avenue is not low enough to care for the northwest corner of Packard street and Fourth avenue but an inlet was placed at the northeast corner. The other corner still remains to be cared for. The cost to date has been \$14.88.

New inlets with connections to storm sewers close by were placed as follows at the cost listed after each:

White st. between Arch st and McKinley ave. \$11.69
Cambridge Road and Hill street 31.41
Summit st. between Main st. and A. A. Ry. 32.27

At the corners of State street and Detroit street with Carey street, inlets were placed to care for the storm water which was formerly allowed to flow down Carey street. This street is maintained by the Michigan Central railroad who complained of this flow of water cutting the surfacing of same. Considerable trouble was experienced in locating the storm sewers at these points thus increasing the cost quite considerably. The total expense was \$117.72.

Along the west side of Division street between Hill street and Edwin street, it was necessary to clean and deepen the storm sewer ditch to make an outlet for the new Edwin street culvert. This ditch was so deep that

it was deemed advisable to construct a fence between it and the roadway. The total cost for cleaning and deepening the ditch and building the fence was \$188.86.

A storm water tile running across Packard street formerly emptied across private property between Granger avenue and Brooklyn avenue. Due to the property owner's objection, it was necessary to run a twelve-inch tile southeast on Packard to the gutter line on Brooklyn and west on Brooklyn until the ground became low enough to permit the flow to empty into this gutter. The cost for labor was \$33.16.

At the corner of Swift and Pontiac street and on Broadway just north of the bridge over the Huron river, inlets were placed with twelve-inch tile connections directly to the river. This was done to prevent storm water flowing over private property and depositing sand and silt. The total cost for this work was \$101.13.

For small miscellaneous work in caring for storm water, no account of items for which was kept, \$13.52 was spent.

The total of the above items for the general care of storm water is \$646.94.

Payments of Five Percent Retained: On sewers completed by contractors during 1914, and reported in my report for that year, the following amounts have been expended in payments to the contractor and for work done by the city in the repair of streets made necessary by this sewer construction. In all cases these amounts aggregate the sum of five percent which was retained for one year.

Location.	Paid to Contractor.	Expense for repairs.	Contractor.
Cambridge Road	\$108.34	\$ 4.92	E. L. Schneider
W. Jefferson st.	18.83	32.19	E. L. Schneider
N. Division st.	110.89		Dederich & Eddy

Storm Sewer Maintenance: For general care and cleaning of storm sewers including the cleaning and repair work done in the alley south of Washington street between Main street and Fourth avenue and in the alley north of Washington street between Main and Ashley street, a total of \$59.58 was expended.

Need for storm sewers: The \$15 000 appropriated by the Council in the Bridge, Culvert and Crosswalk fund for storm sewers will have, by the time the present contracts are com-

pleted, done much to improve conditions. There is still, however, much need for storm sewer extensions in all parts of the city. I believe, also, that a certain sum should be appropriated each year to convert Allen's creek into a main storm sewer.

Summaries: A summary of storm sewer work completed during the past year together with storm sewer contracts remaining uncompleted and a summary of the storm sewers in the city will be found on the following pages.

SUMMARY OF STORM SEWERS IN THE CITY OF ANN ARBOR.

Date	Sewer.	Cost.
Built prior to 1900.....		\$26,411.72
	Catherine street, Allen's Creek to Main street	1898
	Ann street, Allen's Creek to Main street	1898
	Huron street, Allen's Creek to Twelfth street	1898-9
	Washington street, Allen's Creek to Fifth avenue.....	1898-9
	Liberty street, Allen's Creek to Main street	1898
	Liberty street, Main street to State street	1899
	State street, Liberty street to N. University	1899
	William street, Allen's Creek to Main street	1898
	Hill street, Allen's Creek to Twelfth street	1899
	Twelfth street, Hill street to Monroe street	1899
	Monroe street, Thayer street to E. University	1899
	East University avenue, Monroe to S. University	1899
	South University avenue, E. University to Linden	1899
	Linden street, S. University to Geddes ave.....	1899
	Washtenaw ave., from Wilmot to Damon's east line.....	1899
	South Main street to Madison street	1899
	Madison street, Main street to First	1899
	First street, Madison to Moseley.....	1899
1902,	State street, Hill to S. University	1,667.22
1902,	Ann street, Main street to Fourth ave.	543.95
1905,	North University, State street to Twelfth street.....	361.00
1905,	East William street, Main street to Maynard street	3,014.67
1906 and 1907,	Roosevelt ave. and across Judson's land.....	1,710.41
1906,	East Washington st., Fifth ave. to State street	3,781.82
1909,	Washtenaw ave. and Hill st., from Baldwin to Oxford Rd.	653.90
1910,	Washington st., State st. to Ingalls st.	536.37
1911,	Ann street, 4th ave. to 5th ave., and alley in B. L. N., R. 4 East	443.14
1911,	Alley in B. 3 S., R. 3 East.....	250.92
1911,	Hill street, Oxford Rd. to Cambridge Road	116.87
1911,	Packard street, Hill st. to Monroe st.	868.97
1911,	Hill st., Cambridge Rd. to Oswego st	340.66
1911,	North Main street, at Summit street	207.47
1911,	Mary st. and Benjamin, from Edwin to Division streets....	884.78
1911,	Church st., Washtenaw ave. to S. University	1,291.44
1911,	Concrete culvert on State, Arch, White, McKinley and Packard streets	422.95
1911,	Other storm sewer work, including the sewer on Packard street at Dewey avenue.....	1,552.01
1912,	Church st., S. University ave. to Roosevelt ave	2,776.43
1912,	Willard st., Church street 144 ft. west	168.53
1912,	Ashley street in connection with pavement	267.00
1912 and 1914,	Alley in B. 2 S., R. 2 E.....	63.99
1913,	Liberty st., Allen's Creek to city limits	4,077.47
1913,	W. Huron street, Allen's Creek to Forks	4,420.37
1913,	E. Washington st., low point in street to Cat Hole	439.35
1913,	Liberty st. and First st. in connection with Liberty st. pavement	103.46
1913,	W. Huron st. east of Allen's Creek, in connection with Huron street pavement	62.75
1914,	Cambridge Rd., Forest ave. to Lincoln ave	2,397.22
1914,	W. Jefferson st., Second st. to Third st.	1,095.62
1914,	North Division st., Detroit st. to Ann st.	2,309.81
1914,	Alley in B. 1 N., R. 3 East.....	59.64
1914,	Catch basin, inlets and extension on Packard, Arch, and State streets	168.40
1915,	Madison, Division and Jefferson, from Allen's Creek to State street	3,646.17
1915,	E. Jefferson, from Fifth ave. to Hamilton Place	506.23
1915,	Geddes ave. from Linden st. to Boulevard	1,056.21
1915,	Care of storm water on Division at Liberty st., William st.	

and Detroit st. in connection with pavement	253.70
1915, Small extension and new inlets.....	386.44
Total	\$72,353.51

Summary of Sewers and Pavements.

The total cost of sewers and pavements completed in Ann Arbor to date is divided among such improvements as follows:

Pavements	\$368,394.08
Sanitary sewers	216,594.89
Storm sewers	72,319.67

Total \$657,308.64

The total cost of pavements and sewers completed in Ann Arbor to date is divided according to the year of completion as follows:

Prior to 1900	\$176,616.21
1900	28,372.81
1901	3,704.93
1902	36,850.85
1903	34,229.39
1904	5,024.40
1905	18,744.79
1906	12,986.96
1907	34,931.94
1908	10,489.40
1909	11,867.30
1910	24,166.12
1911	82,549.47
1912	20,022.31
1913	54,369.77
1914	51,218.16
1915	51,163.83

Total \$657,308.64

PUBLIC WORK OTHER THAN SEWERS AND PAVEMENTS.

Water Supply Investigation at Steere Farm: Under the direction of the Common Council, an investigation was made to determine whether sufficient water could be obtained from the Steere Farm locality to supply the city. My report to the Council, which was published in their proceedings of Nov. 15th, gives in detail the work done and the results obtained. The costs of this work as shown therein was \$8,589.39. The cost of making the report itself, which was not included in the above figure has increased this total to \$8,656.85.

In addition to the above amount, \$1,144 was expended through this department during 1915 in connection with the Steere Farm suits now pending in the Circuit Court; \$13.51 was expended in January and February, 1915, for gauging the free flow of wells; and \$41.28 was that portion of my salary chargeable to articles written for public information just

prior to the voting on further investigation at the Steere Farm.

Sidewalk, Curbing and Street Grades: Sidewalks in all cases and curbing except in paving districts are paid for by the property owners abutting, this department furnishing the line and grade for same. More work of this nature has been done this year than any year since my connection with the city. This department also sets all stakes needed by the Street department in grading or graveling streets, deepening gutters, building crosswalks, etc. The total costs for this work during the past year have been as follows:

Sidewalk grades and lines....	\$381.44
Curb grades and lines	175.12
Street grades and lines	231.84

Total \$788.40

This work has been scattered in all parts of the city, and the above cost would have been much greater had it not been for the automobile purchased last spring for the use of this department.

Sprinkling Streets: Mr. John Gutekunst was awarded all contracts for sprinkling streets again this year, the contract costs being as follows:

Dist. No. 11	\$1,460.00
Dist. No. 12	840.00
Dist. No. 13	700.00

In addition to the above work costing \$9.14 was done by this department in connections with sprinkling district petitions, sprinkling ordinance, and repair of city stand pipes.

Maintenance: Along Broadway from the M. C. R. R. over-head bridge to the Huron River bridge, the railing on both sides of the street was cleaned and given two coats of a good paint. The cost of this with the cost of cleaning and trimming grass along the edge of the concrete sidewalk at this place was \$32.61.

The bridge over the Huron river on Broadway was carefully measured and figured to determine its strength, which, with the exception of the floor, was found adequate for present requirements. Plans and specifications were prepared for a new flooring and when no bids were received the engineer and street commissioner were instructed to proceed with the construction of same. The lumber

has arrived but one carload was rejected and we are now awaiting the arrival of more to replace it. The cost through this department to date has been:

Engineering \$ 41.24
Freight on lumber accepted... 76.70

Total \$117.94

On Nov. 15, 1915, the Common Council asked for plans and specifications for repairs to Fire Station No. 1, including several new doors and a complete heating plant. Plans and specifications for the doors have been prepared and you now have them under advisement. Plans and specifications for the heating are being prepared as rapidly as possible. The total cost of this work to date has been \$30.05.

On June 24th, 1915, the Common Council ordered the open space on the south and west sides of the City Hall concreted. The taking of levels for providing drainage when this work is done cost \$2.65.

At the Steere Farm, fence repairs and a new line fence on the north and along the west side of the road cost the city \$107.77. Repairs to weires and other apparatus in this locality cost \$57.94.

At Fairview Cemetery, the portion south of the main driveway and adjoining Wright street, was laid out into grave lots. Lots at the rear of the cemetery formerly platted but not marked were also marked. The total cost was \$22.50.

SUMMARY OF YEARLY COST OF ALL NEW PUBLIC WORK.

The cost to the city and special assessment districts of all new improvements completed this year together with the water investigation at the Steere Farm has been:

Public improvements as per
previous summary\$51,163.83
Water investigation at Steere
Farm 8,656.85

Total 59,820.68

Of the above amount, \$2,238.73 was spent in 1914 on work not completed until 1915. In 1915, there has been expended \$3,342.45 on work which is not yet completed. This leaves the net amount paid during the past year \$60,924.40. The uncompleted work now under contract will amount to \$25,623.80. The above work has all been designed, laid out, superintended, etc., by this department.

GENERAL.

Municipal Lighting: Under the direction of the Common Council, a report was prepared to show whether or not a saving could be made if the city should undertake the lighting of its own streets and public buildings. This report is printed in full in the Council proceedings of April 19th, 1915. The total cost of preparing this report was \$65.52 of which \$4.75 was expended in 1914.

Surveys of City Property: On account of a building being constructed on the south side of the Second Ward voting room, a survey was made to locate and mark the city's property and avoid any trespassing. The cost was \$2.31.

Work for Other Departments: For the Board of Water Commissioners during the past year this department has furnished labor in repairing a leak and in flushing hydrants amounting to \$7.25. For the Board of Park Commissioners, maps have been prepared at a cost of \$4.66.

Tools and Machinery for General Use: The small Koehring batch concrete mixer owned by the city was returned to the factory for a general overhauling and repair. The total cost, including freight was \$196.02. The mixer is now practically as good as when new and ready for any use that we may find for it. At the time of the repair of this mixer it was intended to use it for paving work on West Ann street, but afterwards a larger mixer designed for street paving was rented for this work and the smaller mixer has not been used.

A two barrel gasoline tank with a measuring pump was installed at the garage in the rear of the City Building for the use of all machines engaged in municipal work. The total cost of the tank and pump installed was \$94.45. The sale of the old one barrel tank and plunger pump netted \$10.00. The larger tank makes possible a saving in the cost of gasoline.

For miscellaneous small tools, \$2.30 was expended, and the time spent in connection with receiving bids and quotations on cement, tile and concrete mixers amounted to \$5.38.

Backfilling Trenches: The ordinance committee of the Common Council has under consideration an ordinance placing the control of the backfilling of all trenches excavated in public streets in your hands. The rough draft of this ordinance was

prepared by me at a cost of \$6.99. Such an ordinance would certainly save much in the cost of maintenance and repair of streets and would insure greater safety to the public.

Automobile: On March 1, the Common Council authorized the purchase of a Ford runabout for the use of this department. This car was received on March 3d, and has been in use every working day since. It has been of the greatest service throughout the year and has saved considerable more than its cost in livery bills and labor. The cost from time of purchase until the end of the year has been as follows:

Original cost	\$465.00
Insurance and license	9.00
Gasoline and oil	66.47
Cleaning and oiling	14.91
Repairs	80.26
New set tires and tire repairs.	88.50
Tire chains	5.60

Total \$729.74

Engineer's Office: The amount chargeable directly to the running of your Engineer's office this year, including all equipment and supplies purchased for same and all that part of my own time and the time of my assistants devoted to the several duties listed has been distributed as follows:

Office accounts	\$ 104.30
Office records	518.04
Correspondence	132.13
Annual and monthly reports	91.69
Council, Board and Committee meetings	85.68
Inspecting plumbing	45.56
Numbering houses	14.38
Information given to public.	248.32
Information received from others for city	66.32
Cleaning and arranging about office	34.36
Cleaning and arranging about city yards, tool shed, and garage	24.46
Office supplies	294.76
Office equipment, new and repairs	125.71
Surveying supplies, stakes, etc.	123.75
Surveying equipment, new and repairs	104.11
Directing work of department, general	280.27
Convention at Alpena	31.22
Sickness and vacations	99.57

Total \$2,424.66

The total costs of all labor for engineering, inspection and sewer and other work is shown on the summary of my twelve monthly reports given on a following page. The total of all payments to Contractors is also shown in table following.

General Recommendation: I would again suggest that all gas and water mains placed in the public streets be laid out accurately with a transit and level and an accurate record of their location furnished and kept in this office. Much annoyance and present expense and a considerable future expense would be saved in this way.

I would also suggest that some plan be worked out whereby some of our graveled streets might be properly treated with road oil.

Summary of Expenditures for Labor

During 1915.

Engineering—

Manley Osgood ..	\$1,775.00
A. L. Sloman....	822.20
V. R. Burton	739.50
W. C. Russell ...	737.63
F. E. Williams ..	555.75
H. H. Person ...	252.85
C. J. Rash	235.90
A. H. Niles	183.66
C. F. Seymour ..	81.00
H. A. Moul	71.55
R. A. Dodge	55.35
G. A. Woodhouse	24.75
A. D. Burrell ...	17.00
J. B. Smiley	16.15
F. C. Moore	13.50
J. M. Reid	13.00
A. W. Schneider.	12.75
C. W. Moore	11.50
C. L. Williams...	10.99
K. G. Phelps	5.62
R. R. Loveland..	5.22
Raymond Specht.	1.88

\$5,642.72

Inspecting—

F. R. Finch	\$395.75
H. A. Miles	336.00
H. H. Pearson	221.75
C. W. Smedberg ..	217.00
Lawrence Lenhardt	77.00

\$1,247.50

Sewer and Other Work—

Julius Loehrke ...	\$960.00
Street Commission- er's Dep't	979.40

\$1,939.40

Total \$8,829.62

Summary of Payments to Contractor During 1915.

Contractor.	For.	Amount.
Good Roads Const. Co., Division street pavement		\$19,015.76
Good Roads Const. Co., Jefferson street pavement		6,883.68
Barnes & O'Neil, Geddes avenue pavement		5,112.99
Eddy & Son, Seventh street San. sewer		2,997.00
Tom Joyce, Hamilton, Rose & Sheehan Sanitary Sewer		654.07
Dederich & Eddy, Madison, Division and Jefferson storm sewer.		3,443.06
Dederich & Eddy, East Jefferson street storm sewer		489.40
E. L. Schneider, Geddes Ave. storm sewer		1,010.00
Barnes & O'Neil, Edwin & McKinley storm water culvert		2,030.95
J. H. Baer, Steere farm test.....		7,006.60
E. L. Schneider, 5 per cent retained.....		1,093.33
Dederich & Eddy, 5 per cent retained.....		381.47
Hochrein & Co., 5 per cent retained.....		7.53

Total \$50,125.84

**OFFICE OF
STREET COMMISSIONER.**

Office of Street Commissioner

Hon. Board of Public Works, Evart
H. Scott, President: Gentlemen—
I herewith submit the annual re-
port of the Street Department for
the year ending December, 1915, in-
cluding care of streets and sidewalks,
building and repairs sidewalks ex-
tensions, crosswalks, inlets, etc., pav-
ing and materials used.

STREET WORK—

Cleaning paved streets, labor,	\$2,884.51
Sprinkling paved streets (in addition to sprinkling for cleaning)	5.17
Cleaning alleys,	16.41
Cleaning leaves from paved streets,	166.97
Taking care of snow—	
Cleaning snow from cross- walks, gutters, and inlets	261.63
Plowing snow from side- walks	204.50
Plowing snow from gutters,	15.84
Hauling snow from streets,	7.23
Cleaning snow from park walks	1.17
Sanding, etc., sidewalks, ..	4.47
Salt,	5.40

Total snow work	500.24
Paving repairs, labor,	\$387.30
8010 old asphalt paving blocks at \$10.00 per M.,	80.10
370 (est.) old paving brick at \$10.00 per M.,	3.70
Cement, 181.5 sacks, 45.375 bbl. at \$11.13	51.28
9, 1-2 loads sand at 0.25....	2.38
42 loads gravel at 0.25....	10.50

Total paving repairs 535.26
Grading dirt streets with

scraper and street drag,	789.13
Grading, graveling and patching dirt streets in the different wards, labor,	3849.28
3769 loads gravel (not in- cluding Jackson ave. and Dexter road)	893.73

Total graveling	4743.01
Cleaning gutters on dirt streets,	2284.27
Cleaning leaves from gut- ters on dirt streets,.....	28.21
Mowing weeds from streets and lawn extensions, ...	293.80
Grading Olivia avenue be- tween Cambridge road and Wells street and filling north of Wells street, labor	65.11
Grading intersection Cam- bridge road and Lincoln avenue, taking out old wood culvert, etc., labor.	10.90
Grading intersection Cam- bridge road and Olivia avenue,	25.59
Grading Ferdon road, re- moving cement culvert at intersection Norway, etc., labor,	18.20
Grading Forest court and taking out driveway, labor,	13.89
Graveling Norway road, Fair Oaks Parkway, Bald- win avenue, etc., labor	\$119.03
Less paid by Mr. Spooner	41.75

Total Norway, etc. 77.28
Grading Wells street be-
tween Baldwin and Lin-
coln avenue, taking out
crosswalk at Martin

place, labor,	60.72
Graveling Packard street from Granger avenue to city limits, labor	226.62
Grading and graveling Jackson avenue and Dexter road, labor,	503.61
685 loads gravel at 0.15...	366.25

Total Jackson ave., etc... 972.61

Total Street work \$13327.90
CULVERTS—

Setting railing Miller ave. culvert, labor,	\$11.47
Iron pipe and fitting,	17.79
10 sacks cement, 2.5 bbl. at \$1.13	2.83
1 load gravel	0.25

Total Miller ave 31.34
Railing 7th street, labor and materials, 47.53

Total Culvert work \$78.87

SIDEWALKS—

Grading for sidewalks, labor, \$854.57
Sidewalks built by city under contract—

For property owners,
35 pieces, 2080.49 lin. ft.:
11217.58 square ft.;.... 1252.74
(Contractor Thos. Hession, \$654.20; Contractor Thompson & Son, \$598.54)
(1 piece E. side Broadway between Wall and Maiden Lane, 1 piece W. side State between Kingsley and Lawrence, 1 piece W. side Division between Kingsley and Lawrence, 1 piece S. side Kingsley between Division and Detroit, 7 pieces W. side Crest av. south of Washington, 1 piece E. side Huron between Glen ave. and 14th st., 5 pieces W. side 14th, between Huron and Ann, 1 piece N. side Washington between 5th ave. and Division, 1 piece S. side Washington between 9th st. and Crest ave., 3 pieces E. side Crest ave. south of Washington, 4 pieces W. side State between Liberty and William, 2 pieces E. side Martin Pl. between Cambridge road and Wells st., 2 pieces W. side Oli-

via ave. between Cambridge and Minerva road, 1 piece E. side Lincoln between Hill and Cambridge road, 1 piece S. side Washington between 12th and 14th sts 2 pieces W. side 14th between Washington and Belser, 1 piece front No. 308 South 14th st.)

Sidewalks built by City under contract, City account—
Olivia avenue north of Wells street, 266.4 lin. ft., 1332 sq. ft. 133.20

Total Sidewalk work..... \$2,240.51

SIDEWALK EXTENSIONS, CROSSWALKS, ETC.—

Building sidewalk extensions, crosswalks, storm water culverts, etc. labor..... \$1,197.47
152 loads gravel at 25c.... 36.00
25 loads sand at 25c..... 6.25
97 loads filling at 10c..... 9.70
Lumber for forms, etc., \$11.70; oak plank, \$49.03, 60.73
Cement, 763.5 sacks, 190.875 bbl. at \$1.13 215.69
Crossing irons, \$168.60; crossing plates, \$63.56..... 232.16
14,708 old paving brick at \$10 per M 147.08
1890 new paving brick at \$21.50 per M 40.64
3634 old asphalt block at \$10 per M 36.34

Total \$1,982.06

Sidewalk extensions laid by contract, 13 pieces \$ 81.61
(8 regular size and 5 short pieces to match with sidewalks.)

Curbing set, 7 pieces..... 45.63
(1, Ferdon and Norway; 1, Lincoln and Cambridge road; 4, Eber White and Buchanan aves. and Liberty; 1, Cambridge road and alley.)

Cleaning crosswalks, labor.. 25.26
Unloading cars cement, etc. 39.62
Cleaning bridges 6.92
Repairs bridges (including railing north of No. 1 bridge, \$7.25) 9.29

Total Sidewalk extensions, crosswalks, etc. \$2,190.39

INLETS, STORM WATER SEWERS, ETC.—

Repairs and cleaning inlets

and gutter boxes, laying tile,
etc., labor\$196.71
Tile, bought locally, \$25.14;
cement, 29c 25.43
Tile from city yard 33.24

Total inlets, etc.\$255.38
GENERAL WORK AND REPAIRS—
Miscellaneous work and re-
pairs\$170.73
Filling street sweeper brooms
and repairs sweepers..... 89.66
Taking ashes from basement
city hall 21.10
Handling coal for poor master
(not including use of city
team) 8.97
Unloading lumber for bridge
repairs 26.28
Repairs and cleaning cement
mixers, steam roller, etc... 9.12
Setting "no parking" signs for
police dept. 3.33
Repairs and painting snow
plows 27.79
Work for G. A. R. monument
dedication 7.16
Hauling paving block to city
yard 28.24
Setting posts for Auto. associa-
tion 2.00

Total\$394.38
PAVING—

Paving district No. 32, Ann,
Main to 1st street, 2084.8
square yards\$2,740.80
Intersection Brookwood and
Packard, 54.4 square yards,
labor 53.49
49 sacks cement, 12.25 bbl.
at \$1.13 13.85
9 loads gravel at 25c..... 2.25

Total Brookwood\$ 69.50

Total paving\$2,810.39
SUPPLIES—

Supplies, repairs, etc.\$974.16

Recapitulation

Street work\$13,327.90
Culverts 78.87
Sidewalks 2,240.51
Crosswalks, extensions, etc. 2,190.39
Inlets laying tile etc. 255.38
General work and repairs.. 394.38
Paving 2,810.39
Supplies 974.16

Total\$22,271.98

Culverts repaired 2
Crosswalks built 27
Sidewalk extensions built (by city). 77
Sidewalk extensions built (by con-

tract)13
Crosswalks repaired or relaid.....26
Sidewalk extensions repaired..... 8
Gutter boxes built18
Pieces of curb set 7
Storm water cement culverts at in-
tersections17
(About 578 lineal feet)

Cement sidewalks built by city under
contract—

For property owners35
City acct. (Olivia avenue)..... 1
(2346.89 lin, ft.; 12,549.58 square
feet)

Sidewalks repaired at culverts and
engine house 3
Other sidewalks repaired 2
Square yards of pavement laid, 2139.2
Number of notices served48

To repair sidewalks17
To remove obstructions in
streets14
To fill holes in streets 1
To cut weeds16

GRAVEL ACCOUNT— loads

Graveling and patching streets in
the several wards3769
Graveling Jackson ave. and Dex-
ter road 685
Extension, crosswalk, etc., work—
Concrete gravel 152
Filling 97

Total extensions, etc. 249
Paving repairs 42
Repairs culverts 1

Total4746

Paving work—

Dist. No. 32, W. Ann 379
Brookwood and Packard inter-
section 9

Total paving 388

Total loads5134

CEMENT ACCOUNT—

Bbbs.
On hand Jan. 1, 1915 14.25

Bought—

Aetna Portland Cement Co. .. 789
Michigan Portland Cement Co. 200

Total bought 989

Total cement acct.1003.25

Used—

Paving Dist. No. 32..... 645.75
sacks

Extension and crosswalk
work 763.5

Paving repairs 181.5

Inlets and culverts 11

City Engr. dept. work..	75
Paving Brookwood and Packard	49
Total	1080
On hand Jan. 1, 1916.....	270
Total	87.5
Total	1003.25
Respectfully submitted, A. J. PAUL, Street Commissioner.	

INVENTORY — STREET DEPARTMENT, Jan. 1, 1916—

1 team horses	\$ 150.00
1 double harness	20.00
Horse blankets	2.00
Stable blankets	3.00
1 steam road roller.....	1000.00
2 street sweepers	200.00
2 tin pumps, 1 large pump...	10.00
1 pair bobs	20.00
Stencil and alphabet	1.00
1 hack	5.00
2 road scrapers	100.00
19 wood snow plows	95.00
2 patent snow plows	25.00
1 steel snow plow	10.00
1 60-gal. oil can	4.00
3 1-gal. oil cans .....	.60
2 pails .....	.50
1 2-horse mower	5.00
1 large tar tank on wheels..	45.00
1 sand wagon	15.00
1 small tar tank on wheels..	100.00
1 tar tank and equipment at Broadway and river	1200.00
Sidewalk building outfit	4.00
100 feet hose	8.00
1 new street drag	25.00
1 lot sewer jacks	5.00
1 rooter	5.00
18 street brushes	9.00
Stencil for marking concrete,	4.00
1 ladder	1.00
5 street sweeper brooms	50.00
6 spindles for same	6.00
300 lbs. bamboo splints	22.50
5 lbs. bolts (est.) .....	.20
Paint brushes .....	.50
1 plow	10.00
1 sand screen .....	.50
1 cross-cut and 1 one-man saw	2.50
1 sprinkling tank	150.00
2 dump wagons	200.00
3 carts	60.00
1 bolt cutter	1.00
1 brace and bits	1.00
19 red lanterns	11.40
4 lantern frames	1.00
1 iron, 3 wood, levels.....	2.00
16 wheelbarrows	50.00
12 grub hoes	6.00
2 scythe and handle	2.00

1 sidewalk roller	5.00
1 iron vice and bench	3.00
1 set platform scales (at fire engine house)	150.00
1 tool box on wheels	20.00
1 batch cement mixer	100.00
2 slip scrapers	10.00
1 two-wheeled scraper.....	15.00
1 square wood tamper	1.00
3 hand saws	3.00
3 tool boxes	9.00
2 mortar boxes	2.00
3 scoop shovels	1.50
13 cement shovels	7.50
6 iron tampers	3.00
2 wood pounders	1.00
3 paving hammers	2.00
4 mauls	2.00
7 crow bars	3.50
3 hammers	1.50
3 axes	1.50
3 hatchets	1.50
3 shovels	1.50
9 picks	4.50
2 Foote cement mixers	200.00
3 street shovels	1.25
2 toilets for street use	8.00
1 lot rope	1.00
1 lot iron pipe and fittings...	25.00
2 Knowell street scrapers...	2.00
2 Century street scrapers...	5.00
1 tar kettle	10.00
1 20th Century horse grader,	100.00
1 tar wagon distributor at- tachment	15.00
2 large hose nozzles.....	3.00
3 rakes	1.00
4 supports for red lights....	1.00
5 cold chisels	1.00
1 pliers .....	.75
2 pliers	1.00
1 long-handled shovel .....	.60
1 bbl. salt	1.00
2 pair rubber boots	3.00
1 wrench	1.00
1 wagon jack	4.00
2 post hole diggers	1.00
2 pitch forks	1.00
3 barley forks	1.50
2 brick tongs	2.50
1 stone boat	1.00
1 lot old fire hose	5.00
5 Berry street brushes	2.00
1 grindstone	2.00
1 hoe .....	.40
1 stone hammer .....	.35
1 snow shovel .....	.50
2 pipe spades .....	.30
3 old wood trowels .....	.25
Creasers and edgers .....	.75
Steel trowels .....	.75

Total\$4401.70
Building materials, etc.—

4200 paving block	\$ 89.30
20,000 old paving brick at \$5.00 per M	100.00
55 bbls. pitch	178.75
87.5 bbl. cement	98.88
Old bridge timbers	15.00
5 turned posts	2.50
1 lot 12-foot wing bars for cement work	10.00
1 lot old sewer pipe	50.00
1 lot new sewer pipe	75.00
300 wood paving blocks	2.00
1 lot 12 in. plank	6.00
3 pc. 8 in. iron pipe	10.00
24 old manhole and inlet frames	20.00
1 lot stone curbing, etc.	30.00
2000 feet oak plank	98.00

Total\$ 785.43
Inventory total.....\$5187.13
(Correc. ALFRED J. PAUL, Street
Commissioner.

Resolutions.

Moved by Ald. Manwaring, that action of Council of January 17th, 1916, calling special election to fill vacancy caused by the death of Mayor Charles A. Sauer, be rescinded.

Pres. Wurster called Ald. Markey to the chair, who put the question.

Adopted by unanimous vote of Council, except Pres. Wurster not voting.

Ald. Markey retired from chair in favor of the president.

By Ald. Sink, Resolved, that the City Attorney be and is hereby authorized to take an appeal from the decision of the Circuit Court to the Supreme Court in the case of Gustave A. Schenk vs. the City of Ann Arbor.

Adopted by unanimous vote of Council, 15.

By Ald. Freeman. Whereas, there has been presented to this council petitions asking for a submission of the question of charter revision and the election of a charter commission at the next April election, and

Whereas, the said petitions have been signed by a sufficient number of legal voters as required by law making such a submission mandatory; therefore

Resolved that the question of a general revision of the charter of the city be submitted to the electors for adoption or rejection at the polls, to which end the council declares for a general revision to be voted on at the regular municipal election on Monday, April 3, 1916, and orders

that the question shall be submitted at that election on a separate ballot in the following form:

For a general revision of the city charter. Yes ()

For a general revision of the city charter. No. ()

Resolved that at the same election to be held on Monday, April 3, 1916, there shall be elected also a charter commission consisting of one elector from each ward and four electors at large, who shall constitute a body for revising the charter. The selection of the charter commission shall be void if the proposition to revise is not adopted.

Members of the commission shall be electors having a residence of at least three years in this city. No city officer or employee, whether elected or appointed, shall be eligible to a place on the charter commission.

Candidates for the charter commission shall be nominated by petition without reference to or designation of party affiliation, signed in the case of the commissioner from each ward by not less than fifty electors in such ward and in the case of commissioners at large by not less than fifty electors residing in each ward of the city asking that the name of the candidate designated be placed upon the ballot.

The names of all candidates so nominated shall be placed upon a separate ballot at the regular municipal election on April 3, 1916, without their party affiliations being designated. The candidate having the greatest number of votes in each ward shall be declared elected, and the four candidates at large having the largest number of votes cast in the city shall be declared elected. The nomination and election of the members of the charter commission shall be conducted, except as otherwise provided herein or by Act No. 279 of the Public Acts of Michigan for the year 1909, as amended, as near as may be as now provided by law for the nomination and election of city and ward officers in this city.

Resolved that the charter commission, when elected, shall convene on the second Tuesday after the election at seven-thirty o'clock in the evening in the council chamber in the city of Ann Arbor.

The city clerk shall preside at the first meeting, shall administer the oath of office to the members-elect, and shall act as clerk of the commission.

The commission shall be the sole judge of the qualifications, elections and returns of its own members, choose its own officers, except clerk, determine the rules of its proceeding and keep a journal. A roll-call of its members on any question shall be entered on the journal at the request of one-fifth of its members or less if it shall so determine. It may fill any vacancy in its membership and it shall fix the time for the submission of the charter to the electors. A majority of the members shall constitute a quorum and its sessions shall be public.

The compensation of the members of the charter commission shall be at the rate of one cent for each day's actual attendance, and no member shall receive compensation for more than ninety days.

The charter commission, when elected, is hereby authorized to incur necessary expenses in a sum not to exceed three hundred (300) dollars. All bills shall be allowed by the charter commission and shall be transmitted by the commission to the council for payment.

Resolved that the city clerk is hereby directed to give at least thirty days notice of these resolutions by posting a notice and copy of them in three public places in each ward of the city and by publishing a notice and copy of them in a newspaper published in the city, and that such

publication in a newspaper shall be made daily during the ten days next preceding election.

And the city clerk shall prepare the necessary ballots for the submission of the question of general charter revision and for election of members of the charter commission as herein provided.

Moved by Ald. Markey, that resolution be referred to Special Charter committee and City Attorney to investigate and report back at next meeting of Council.

Adopted as follows: Yeas, Ald. Heusel, Fiegel, Hanselmann, Heck, Markey, Flynn, Sherk, Manwaring, McGregor, Pres. Wurster, 10. Nays, Ald. A. Lutz, Koernke, Freeman, G. Lutz, Sink, 5.

By Ald. Fiegel, Resolved, that the time for collecting taxes be extended to February 29th, 1916.

Adopted by unanimous vote of Council, 15.

Moved by Ald. Sherk, that the Ordinance committee create an ordinance repealing the ordinance creating a Board of Water Commissioners.

Adopted as follows: Yeas, Ald. Heusel, Fiegel, Hanselmann, Koernke, Heck, Sherk, Manwaring, McGregor, Freeman, Sink, 10.

Nays, Ald. A. Lutz, Markey, Flynn, G. Lutz, Pres. Wurster, 5.

The Council adjourned.

ROSS GRANGER,
Clerk.