

Council Chamber, Ann Arbor, Mich., April 15, 1929.

Regular Session.

Meeting called to order by City Clerk, and Ald. Freeman chosen to preside pro. tem. on motion of Ald. Harris.

Present: Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Pres. Myers, absent, 1.

Printed pamphlets of Mar. 28 and Apr. 4; 1929 were approved.

By Ald. Fisher:

Resolved, that the rules of the last Council be and the same are hereby adopted as the rules of this Council.

Adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Communications

From President, Dean W. Myers, extending greetings from California and stated that he expected to return home April 20, 1929. Acting President, ordered same placed on file.

Office of City Engineer,
April 12, 1929.

To the Honorable Common Council,
Ann Arbor, Mich.

Gentlemen:

I respectfully recommend that the following transfers be made which affect the Street Fund:

Bridge Culvert & Crosswalk Fund to Street Fund:

Storm Sewer Maint.	\$ 3,000.00
1928-1929 Budget Provision	32,500.00
Street Fund	<u>\$35,500.00</u>

Street Dept. Fund to Contingent Fund (General):

Detroit Street Pavement..\$ 5,349.31

Respectfully submitted,

Geo. H. Sandenburgh, City Engineer.

Moved by Ald. Lutz, that recommendations be concurred in.

Adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

April 10, 1929.

To the Honorable Common Council,
Ann Arbor, Mich.

Gentlemen:

In order to better serve the people of the City who are building new homes and to protect their interests and for the benefit of builders and building contractors, a building inspector should be appointed at once.

Your Engineering Department can take care of the clerical work, plan examining and the issuance of permits but we need a field man to check up on buildings during the different stages of construction.

The necessary money for a building inspector was placed in the 1928-1929 budget of the Engineering Department, therefore, money for a building inspector's salary is available.

Respectfully submitted,

Geo. H. Sandenburgh, City Engineer.

By Ald. Fisher:

Resolved, that Wm. C. Maulbetsch be employed as building inspector for the City of Ann Arbor at a salary of \$2,400.00 per year beginning April 22, 1929. Be it further resolved, that the Building Inspector work under the jurisdiction of the City Engineer until a separate building department is established.

Adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger,

Bradley, Draper, Kurth, Townley, Freeman, Fisher, Lutz, 13. Nays, non. Ald. Severance excused from voting.

Office of Water Works Dept.
To the Honorable Common Council,
City of Ann Arbor,
Gentlemen:

Kindly authorize a cancellation of check No. 1542 dated March 18, 1929, for \$130.50 payable to the Water Works Equipment Company, New York, on account of the return of equipment.

Yours very truly,

John Lindenschmitt, Robert Norris, W. H. L. Rohde, Board of Water Commissioners.

By Ald. Lutz:

Resolved, that following warrant be cancelled: Water Works Fund No. 1542 favor Water Works Equipment Co. of New York, amount, \$130.50.

Adopted by following vote: Yeas, Ald. Wuerh, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

March 6 1929

To the Honorable Common Council,
Ann Arbor, Mich.

Gentlemen:

I respectfully recommend that the following transfers be made from Paving Districts, Curb and Gutter Districts, Sanitary Sewer Districts, Bridge, Culvert and Crosswalk Fund and Sidewalk Fund to the Contingent Fund and the several amounts to be credited to the Engineering Department.

The several amounts are for work done and materials or supplies purchased for the various districts or Bridge, Culvert and Crosswalk Fund or Sidewalk Fund by the Engineering Department. These amounts have all been paid out of the Engineering Department Division of the Contingent Fund and

should now be transferred back to the Contingent Fund and credited to the Engineering Department.

From Paving Districts to Contingent Fund Engineer Dept. the following:

Dist. 103, \$233.72; Dist. 104, \$429.24; Dist. 92, \$1,305.56; Dist. 93, \$1,517.03; Dist. 94, \$824.21; Dist. 97, \$407.12; Dist. 99, \$468.71; Dist. 96, \$711.77; Dist. 95, \$1,228.40; Dist. 98, \$163.00; Dist. 100, \$643.17; Dist. 101, \$804.30; Dist. 102, \$171.02. Total, \$8,907.25.

For Curb & Gutter Districts to Contingent Fund, Engineer Dept. the following: Dist. 106, \$270.48; Dist. 111, \$41.58; Dist. 112, \$232.76; Dist. 117, \$209.84; Dist. 151, \$232.96; Dist. 125, \$157.62; Dist. 126, \$759.05; Dist. 145, \$134.08; Dist. 134, \$165.05; Dist. 136, \$380.98; Dist. 137, \$129.56; Dist. 148, \$143.21; Dist. 146, \$237.90; Dist. 142, \$185.40; Dist. 144, \$86.79; Dist. 149, \$94.79; Dist. 143, \$42.02; Dist. 147, \$83.56; Dist. 150, \$195.67; Dist. 154, \$146.62; Dist. 156, \$117.65; Dist. 153, \$169.34; Dist. 155, \$132.03; Dist. 152, \$191.09. Total, \$4,540.03.

From Sanitary Sewer Districts to Contingent Fund Engineer Dept. the following: Dist. 175, \$726.73; Dist. 176, \$152.95; Dist. 177, \$153.05. Total, \$1,032.73.

From Bridge, Culvert & Crosswalk Fund to Contingent Fund, Engineer Dept., the following:

E. University Ave., \$1,130.58; Rose Ave., \$153.53; S. Seventh St., \$223.94; Alley, Huron St. North 145 ft. thence west 50 feet towards Chapin St., \$423.62; Charlton Ave., \$28.17; Onondaga St. \$134.18; Wilmot St., \$96.79; Storm Sewer Maintenance & Repair, \$2,008.50; Monroe St., \$33.78; N. University Ave., \$45.13; Koch Ave., \$33.13; Awixa Road, \$347.69; Sunset Road, \$319.92; Abbot Ave., \$278.65; Buena Vista, \$48.21; Highland Road & Lenawee Drive, \$77.45; Montgomery Ave. \$83.79. Total, \$5,467.07.

From Sidewalk Fund Engineering to Contingent Fund Eng. Dept. \$236,723.

From Street Fund to Contingent Fund Eng. Dept, \$117.40.

Respectfully submitted,

Geo. H. Sandenburgh, City Engineer.

Moved by Ald. Fisher, that recommendation of City Engineer be concurred in.

Adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

April 15, 1929.

To the Honorable the Common Council, Gentlemen:

Your Board of Police Commissioners wishes to purchase Line-O-Graph, Street Marking machine, at a cost of Fifty Dollars.

Respectfully submitted,

Wm. L. Dawson, Chairman, Board of Police Commissioners.

Referred to Budge Committee.

Petitions

Of Angelo Paulos & twenty-seven others protesting against charge made in excess of fifty per cent of the total expense of widening E. Liberty St. received and referred to Budget Committee.

Of Otto Koernke, et. al. for storm sewer on Brooklyn Ave. received and referred to Sewer Committee.

Of Realty Associates, Inc. for storm sewer on Orchard St. received and referred to Sewer Committee.

Of Realty Associates, Inc. for sanitary sewer in Allmendinger Heights Subdivision, received and referred to Sewer Committee.

Of Marvin Kroh, et. al. for no-parking on north side of West Huron between First St. and Ann Arbor Railroad, received and re-

ferred to Traffic Committee.

Of H. G. Prettyman, et. al. for pavement on Lawrence St. between State & Division, received and referred to Street Committee.

Of Otto Koernke, et. al. for curb and gutter on Brooklyn Ave. between Packard and Golden Ave., received and referred to Street Committee.

Of M. J. Lehman, et. al. for curb and gutter on Grand View Ave. between Jackson and Dexter Aves., received and referred to Street Committee.

Of Mrs. Mary I. Schwab to change zoning of property corner Forest & Prospect from Class "B" to Class "C" received and on motion of Ald. Fisher, matter was referred to Ordinance Committee. Adopted.

Of Wm. Osius to zone his property annexed to city in the election held April 1, 1929, received and referred to ordinance committee.

Of Market committee protesting against Leslie & Zahn properties for market site, received and on motion of Ald. Fisher, matter was referred to committee of the whole of the council at next meeting. Adopted.

Clerk reported that Mr. John Lindenschmitt's term as member of water commissioners expires on the first Monday in May, 1929 and that ordinance provides for a member to be elected by council for six years.

Moved by Ald. Fisher, that matter be referred to committee of the whole next Monday evening and that when we adjourn we do so to meet Monday, April 22, 1929 at 7 p. m.

Adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Committee Reports**Finance Report****Fire Fund**

Chas. Andrews, salary	\$ 114.50
Henry McLaren, salary	91.50
Ralph Edwards, salary	91.50
Jacob Gwinner, salary	83.00
Herman Kruse, salary	83.00
Frank Markey, salary	78.50
Emil Damman, salary	78.50
Earl Arnold, salary	78.50
Benj. Zahn, salary	78.50
Henry Nevroth, salary	78.50
Arthur Clark, salary	78.50
Clyde Carpenter, salary	78.50
John Comiskey, salary	78.50
Walter Feldkamp, salary	78.50
Percy Whitlock, salary	78.50
Edward Zeeb, salary	78.50
Geo. Schmidt, salary	78.50
Henry Kolander, salary	78.50
Albert Hoffman, salary	78.50
Elmer Rintz, salary	78.50
Oscar Rintz, salary	78.50
Earnst Heller, salary	78.50
Ira Nevarre, salary	78.50
Frank Ryan, salary	78.50
Laurence Chatterton, sal	78.50
John Waterman, salary	78.50
Wm. Keihl, salary	78.50
Carl Nevins, salary	78.50
Fred Wadhams, salary	78.50
Harold Gaus, salary	78.50
Chas. Carroll, salary	45.00

Fire Fund total salaries
1-2 mo. April\$2,471.00

Police Fund

Thos. O'Brien, salary	\$ 114.50
Louis Fohey, salary	87.50
Norman Cook, salary	87.50
Sherman Mortenson, sal.	87.50
M. G. Howard, salary	78.50
Chas. Kapp, salary	78.50
Irwin Keebler, salary	78.50
Harold Gee, salary	78.50
Benj. Ball, salary	78.50
Roland Wooster, salary	78.50
Herman Suma, salary	78.50
Oscar Weir, salary	78.50
Thos. Fohey, salary	78.50
Julius Ehnis, salary	78.50
Walter Schmid, salary	78.50
Albert Heusel, salary	78.50
John Osborn, salary	78.50

Wm. Marz, salary	78.50
Harry Smith, salary	78.50
Clifford West, salary	78.50
Casper Michelson, salary	78.50
Wm. Hitchingham, salary	78.50
Clark Earl, salary	78.50
Roy Richter, salary	78.50
Irwin Davidson, salary	78.50
Eugene Gehringer, salary	78.50
Clyde Hahn, salary	78.50
Harold King, salary	72.00
Clifford Stang, salary	72.00

Police Fund total salaries
1-2 mo. April\$2,326.50

Water Works Fund

Harry Willsher, salary	\$ 72.50
Waldo Eisemann, salary	75.00
Fred Linde, salary	87.50
Lorenz Furthmueller, sal.	75.00
Robert Rowe, salary	70.00
Robert Young, salary	65.00
William Zachman, salary	62.50
A. E. Hawkes, salary	70.00
C. W. Shetterly, salary	100.00
Donna Woodward, salary	62.50
William Groves, salary	70.00
J. C. Ledwidge, salary	70.00
John Ardner, salary	62.50

Water Works total semi-
monthly salaries\$ 942.50

Contingent Fund

Franz Marz, sal. 1-2 mo.	\$ 78.50
Fred J. Staeb, sal. 1-2 mo.	57.50

Contingent Fund total
salaries\$ 136.00

Election

J. F. Wuerth, services	\$ 15.00
L. O. Cushing, services	15.00
Timothy P. Stowe, services	15.00
Wm. C. Walz, services	15.00
Ralph Lutz, services	15.00
Ralph T. Swezey, services	15.00
Wm. C. Maulbetsch, serv.	15.00
Benj. H. Graf, services	15.00
Herman F. Miller, services	15.00
Wm. H. Buettner, services	15.00
Arthur C. Prochnow, serv.	15.00
F. F. Graf, services	15.00
J. Herman Greve, services	15.00
Frank P. Harris, services	15.00

Wm. F. Armstrong, serv.	15.00	Muehlig & Schmid, ma-	
Geo. W. Efner, services..	15.00	terials	2.23
E. E. Lucas, services....	15.00	Standard Oil Co. materials	107.09
B. E. Pryer, services....	15.00	John Volz & Son, ma-	
Wirt Masten, services....	15.00	terials	4.95
Benj. F. Bradley, services	15.00	Winsor Tractor Equip-	
Frank J. O'Toole, services	15.00	ment Corp., materials..	6.68
E. L. Schumacher, serv...	15.00	Modern Pattern & Machine	
J. Wesley, Corson, services	15.00	chine Works, repairs..	5.65
J. A. Brown, services....	15.00	Henry S. Platt, repairs..	9.46
Andrew R. Gfell, services	15.00	J. F. Riehm, repairs.....	6.70
Andrew E. Kurth, services	15.00	The Welding Shop, repairs	.50
Katherine A. Kapp, serv.	15.00	Wolf & Calvin, repairs..	2.50
Pauline M. McCollum,			
services	15.00	Total Municipal Garage..\$	265.08
Mary B. Cummings, serv.	15.00		
Edward W. Hatch, services	15.00	Engineer Dept.	
Harriet B. Lourey, serv.	15.00	Jim Acqui, services.....\$	54.30
L. A. Townley, services .	15.00	Wm. Austin, services....	26.40
B. A. VanSickle, services	15.00	K. W. Donnell, services..	87.50
H. W. Nichols, services..	15.00	H. Ferez, services.....	87.50
Norman Kleene, services	15.00	Alex Jarowski, services..	48.98
Mary S. Cole, services..	15.00	V. W. McAdam, services..	100.00
Eliza K. Nichols, services	15.00	Willard Ponto, services..	21.18
L. E. Hebbard, services..	15.00	F. Schmid, services.....	75.00
W. E. Groat, services ...	15.00		
Sophia Thelma Hayes		Engineer Dept. total...\$	500.86
services	15.00		
Maria Peel, services.....	15.00	Steve Arnold, services...\$	25.00
O. E. Roszel, services ...	15.00	Kathern Golden, services	44.10
Edward S. McLouth, serv.	15.00	W. L. Parks, services....	6.00
Nellie J. Stevens, services	15.00	Edna Schmierle, services	46.50
Leonard P. Fisher, services	15.00	Keith Tessmer, services..	12.50
Katherine S. Groomes, sal.	15.00	The Detroit Edison Co.,	
Franklin J. Davidson, sal.	15.00	N-P services	154.13
Jennie E. Servis, salary..	15.00	Mich. Bell Tel. Co., N-P	
Archie D. Miles, salary..	15.00	services	1.95
R. Earl Hawley, salary..	15.00	Public Health Nursing	
Theodore Buser, salary..	15.00	Assoc., T. B. work....	18.00
		American Steam Pump Co.	
Election Total	\$ 765.00	equipment	175.00
Municipal Garage		Chas. L. Brooks, insurance	114.81
The Detroit Edison Co.,		Julius F. Haarer, ins....	38.00
N-P services	\$ 3.42	Fred T. McOmber, ins. . .	30.00
The Mayer-Schairer Co.		Banner Laundry Co., office	
office expense	18.60	expense	10.50
American Railway Ex-		Eberbach .. Son. Co., office	
press Co., materials .	1.10	expense	2.45
D. C. Chipman, materials	20.00	Holland, Ackerman &	
Consumers Oil & Storage		Holland, office expense	6.64
Co., materials	17.28	The Home Supply Store,	
Elgin Sweeper Co., ma-		office expense	1.50
terials	57.30	Jno. C. Fischer Co., office	
C. F. Hartman, ma-		expense	2.70
terials .....	.52	The Mayer-Schairer Co.	
Huron Valley Chev. Inc.		office expense	265.30
materials	1.10	The Nik-O-Lok Co., office	
		expense	11.00

I. G. Reynolds, office expense	2.25
James B. Saunders, office expense	6.50
White Swan Laundry Co., Ltd., office expense .....	.33
Beranek & Martin, materials	8.00
C. E. Godfrey, materials	1.77
Hutzel & Co., materials	8.37
Ayres, Lewis, Norris & May, contingencies.....	1,500.00
R. A. Steward, conting....	6.00
The Athens Press, printing	25.00
Millard Press, printing ..	83.60
State Review Publishing Co., printing	5.00
City of Ann Arbor Municipal Garage, M Garage, (Health Dept.)	23.77
J. E. Beeler, repairs	1.75
Wolf & Calvin, repairs	2.60
Total	\$2,641.02

Contingent Fund total including salaries\$4,307.96

Police Fund

Postal Telegraph-Cable Co., N-P services	\$ 1.18
Graf & Harris, equipment	54.13
International Police Research Bureau, equip....	147.00
American Railway Express Co., materials.....	4.37
Conlin & Wetherbee, office expense	37.50
The Detective Publishing Co., office expense	9.00
Federal Laboratories, Inc. office expense	24.00
Gas Protective Co., office expense	8.50
Clyde C. Kerr & Sons, office expense	5.75
D. J. Malloy, office expense	11.50
Muehlig & Schmid, office expense	1.75
Schumacher Hardware Co., office expense	7.20
Ernst Bros. Electric Shop, contingencies	12.60
Ann Arbor Taxicab & Transfer Co., conting....	2.00
H. J. Richards, conting....	3.00

Weissinger, Sign Works, contingencies	9.00
City of Ann Arbor Municipal Garage, M Garage	64.35
Essco Mfg. Co., repairs ..	19.21
First Liberty Garage, repairs	17.50
Henry S. Platt, repairs ..	12.64
Washtenaw Motor Co., Inc., repairs	4.40
Total	\$ 456.58

Police Fund total including salaries\$2,783.08

Water Works Fund

The Athens Press, office expense	\$ 14.50
Davis & Ohlinger, office expense	7.75
P. B. Harding, office expense	5.25
Neptune Meter Co., mater.	15.85
Buckeye Traction Ditcher Co., materials	15.12
Schumacher Hardware Co. materials	7.20
Muehlig & Schmid, materials	1.00
C. H. Kittredge, materials	1.70
Jno. C. Fischer Co., materials	15.92
Eberbach & Son. Co., materials ..	1.70
Sam C. Andres, materials	2.85
Mayer-Schairer Co., materials	7.75
Clover-Leaf Motor Truck Transportation Co., materials ..	1.10
Mich. Central R. R. Co., materials	8.10
Water Works Dept, materials	4.33
Detroit Edison Co., N-P services	1,992.29
Municipal Garage, M Garage	92.37
Total	\$2,194.78

L. Gerrick, labor	\$ 62.40
H. Maier, labor	80.00
W. Western, labor	59.80
A. Jedele, labor	62.40
E. Mukensturn, labor	80.00

A. Gerstler, labor	61.75
H. Gerstler, labor	33.00
J. Duboloski, labor	57.00
M. Soldato, labor	42.60
C. Sauer, labor	25.35
A. Pokroski, labor	42.60
A. Sturon, labor	40.80
O. D. Conger, labor	57.60
P. Kallas, labor	28.20
A. C. Hetsler, labor	17.40
Total labor	\$ 750.90

Water Works Fund total
including salaries.....\$3,888.18

Park Fund

Geo Davis, labor	\$ 59.40
Ben Foster, labor	64.80
Chas. Foster, labor	39.60
Andrew Keiman, labor	59.40
Henry Mager, labor	55.00
Geo. Mason, labor	39.60
Ezra Moore, labor	54.00
Richard Wallaker, labor	54.00
Clauda Wyman, labor	59.40
Tim McCarthy, team	99.00

Total labor.....\$ 584.20

City of Ann Arbor Water Dept. N-P services	\$ 16.27
Ann Arbor Construction Co., materials	6.79
Washtenaw Lumber Co., materials	1.55

Total.....\$ 24.61

Park Fund total.....\$ 608.81

Street Fund

Philip Adam, labor	\$ 28.00
August Behringer, labor	29.00
L. G. Bird, labor	72.80
Otto Blaess, labor	55.80
Camdem Dempsey, labor	53.40
Adolph, Finkbeiner, labor	28.40
Fred Hanselman, labor	48.75
Eb. Holzapfel, labor	10.80
Sam Kalmbach, labor	16.75
Wm. Keppler, labor	55.80
Samuel Lutz, labor	38.00
Fred Mack, labor	35.00
Fred Mahlke, labor	32.40
Geo. Menice, labor	47.40
James Mason, labor	60.45
Michael Morhardt, labor	43.00

Chris. Paul, labor	54.00
Chris. Pfaus, labor	28.00
Arthur Raus, labor	55.80
Otto Schantz, labor,	55.80
Ed. Schweickert, labor	65.40
Carl Seeger, labor	28.00
hJohn Shanahan, labor	51.00
Herman Stoll, labor	51.00
Theo. Sollsteimer, labor	28.00
Fred Ulrich, labor	73.10
Ike Warner, labor	43.00
Wm. Wayman, labor	39.00
Ann Arbor Construction Co., truck	81.00
Sam Burke, team	75.00
Stanley Matthews, truck	35.00
Robert Miller, truck	32.50
Carl Rehberg, truck	87.00
Jake Young, team	38.00

Total labor.....\$1,576.35

The Mayer-Schairer Co., office expense	\$ 7.95
American Railway Ex- press Co., materials	1.08
Ann Arbor Construction Co., materials	238.24
The Artificial Ice Co., materials	70.58
Austin Western Road Ma- chinery Co., materials	8.06
The Barrett Co., materials	232.56
Jno. C. Fischer Co., ma- terials	.98
Hertler Bros., materials	45.42
Killins Gravel Co., ma- terials	567.00
The Mich. Central R. R. Co., materials	205.59
Chio Valley Rock Asphalt Co., materials	376.20
Schumacher Hardware Co. mateials	2.84
C. J. Snyder & Sons, ma- terials	5.00
A. Steiert & Son, ma- terials	133.28
Winsor Tractor Equipment Corp., materials	10.62
Hutzel & Co., repairs	1.70
J. F. Riehm, repairs	2.50
R. A. Steward, repairs	5.00
Wolf & Colvin, repairs	19.60

Total.....\$1,934.20

Street Fund total.....\$3,510.55

RECAPITULATION

Contingent	\$ 4,307.96
Fire	2,471.00
Police	2,783.08
Water Works	3,888.18
Park	608.81
Street	3,510.55

City Funds total\$17,569.58

Ann Arbor, Mich.,
April 15, 1929.

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. Complying with Rule XXI, the following warrant was drawn to save discount and is not included in above report: Contingent Fund, Engineer Dept., Contractor's Equipment Co., materials, \$42.14.

FRED C. PERRY,
City Clerk.

To the Honorable the Common
Council, Gentlemen:

Your Finance Committee has reviewed the foregoing report. We recommend that same be approved and that warrants be ordered drawn for foregoing accounts and that action of City Clerk in drawing warrant to save discount be concurred in.

G. M. LUTZ, Jr.,
EARL L. SEVERANCE,
Finance Committee.

Ald. Lutz moved the adoption of report which was adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Ald. Lutz presented bill of John J. Engelfried for \$13.63 for extra labor at City Hall.

Moved by Ald. Lutz, that bill be allowed and Mayor and City Clerk

be instructed to issue warrant in payment of same.

Adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

To the Honorable the Common
Council, Gentlemen:

Your Finance Committee respectfully recommends: that the new rate submitted by the Detroit Edison Co., under date of March 29, 1929, for operating police signal lights be accepted.

Geo. Lutz, Jr., Earl Severance,
Finance Committee.

Ald. Lutz moved the adoption of report which was adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Ordinance Committee

Ald. Severance presented an ordinance entitled, "An Ordinance to place into a certain existing territory annexed to the City of Ann Arbor at the April election 1929". The Common Council of the City of Ann Arbor ordain: which was given its first reading by title passed to and given its second reading and referred to Ordinance Committee by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Ald. Severance presented an ordinance entitled, "An ordinance to place into a certain existing territory annexed to the City of Ann Arbor at the April election 1929. The Common Council of the City of Ann Arbor ordain: which was given its first reading by title passed to and given its second reading and referred to ordinance committee by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker,

Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Public Hearing

Report of Public Hearing on proposed amendments to zoning ordinance, also amendment to title of ordinance.

To the Honorable the Common Council, Gentlemen:

Pursuant to action of your honorable body, March 18, 1929, a public hearing was held at the Council Chamber, City Hall, April 8, 1929, at 7:30 o'clock p. m. for the purpose of hearing all persons interested in proposed amendments to the zoning ordinance. Ald. Charles C. Freeman acted as Chairman of meeting, and he following members of the Council were present: Ald. Wuerth, Sauer, Schlunker, Harris, Draper, Kurth, Townley, Freeman, 8. Due proof of publication of notice of meeting in the Washtenaw Tribune, March 22, 1929, was presented and ordered on file. Ald. Freeman read the proposed ordinance, section by section, and called for remarks which were responded to by the following: Messrs. Wilgus, Steward, Slauson, Cuthbert, Cornell and Lloyd. Nothing further appearing, meeting was adjourned on motion of Ald. Townley.

FRED C. PERRY,
City Clerk.

Ald. Severance presented the following ordinance which was given its third reading and moved its adoption.

An ordinance regulating, restricting and districting the location of residences, trades, industries, businesses and the location of buildings designed for specified uses, and establishing the boundaries of districts for the said purposes; providing for and establishing set back lines and providing for the violation of said ordinance. Passed Sept. 4, 1923; approved Sept. 6, 1923; amended Jan. 19, 1925;

amended Sept. 21, 1925, amended Nov. 21, 1927; amended Aug. 6, 1928; amended Oct. 15, 1928.

Amendment to title of ordinance:

An ordinance regulating, restricting and districting the location of residences, trades, industries businesses and the location of buildings designed for specified uses, and establishing the boundaries of districts for the said purposes; establishing height and area districts; regulating and determining the area of yards, courts and other open spaces surrounding buildings; to regulate and limit the density of population; providing for the establishing of set back lines and providing a penalty for the violation of said ordinance, passed Sept. 4, 1923; approved Sept. 6, 1923; amended Jan. 19, 1925; amended Sept. 21, 1925; amended Nov. 21, 1927; amended Aug. 6, 1928; amended Oct. 15, 1928.

Moved by Ald. Fisher, that action be deferred until next adjourned regular session.

Adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Sewer Committee Report

To the Honorable, the Common Council, Gentlemen:

Your Sewer Committee recommends that Board of Public Works and City Engineer be instructed to prepare specification and estimates of sanitary sewer on Cedar Bend Drive, 100 ft. northeasterly from street line on Broadway.

That matter of spreading cost of sewer in case of private property on one side of street and city property opposite be discussed at meeting of the whole.

A. E. KURTH, Chairman.

Ald. Kurth moved adoption of report which was adopted by following vote: Yeas, Ald. Wuerth,

Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Traffic Committee Report

To the Honorable the Common Council, Gentlemen:

Your Traffic Committee respectfully recommends the granting of petition of property owners fronting on west side of State Street from Hill St. to Hoover Ave. and the east side of Packard St. between Hill St. and Arch St. to one hour parking.

Respectfully submitted,

E. J. Allmendinger, Geo. J. Lutz, Jr., W. J. Draper. Traffic Committee.

Ald. Allmendinger moved the adoption of report which was adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Bond & License Committee Report

To the Honorable the Common Council, Gentlemen:

Your Bond & License Committee respectfully recommends approval of the following bonds:

Constable Bonds

Thomas J. Hession, principal; Ernst M. Wurster, Jay C. Herrick, sureties.

Nelson W. Hoppe, principal; Anna M. Spathelf, Mrs. G. Gutekunst, sureties.

For Erection & Installation of Electric Signs

J. B. Saunders, principal; The United States Fidelity & Guaranty Co., of Baltimore, Md., surety.

Harris Tire Co., principal; Detroit Fidelity & Surety Co. surety.

Respectfully submitted,

Benj. F. Bradley, B. H. Graf, A. E. Kurth, Bond & License Committee.

Exit Ald. Severance.

Ald. Bradley moved the adoption of report which was adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Townley, Freeman, Fisher, Lutz, 13. Nays, none.

City Officers

Annual Report of Fire Department

Ann Arbor, Michigan,
April 12, 1929.

To the Honorable Board of Fire Commissioners:

Gentlemen:

I herewith submit the 40th annual report of Fire Department from April 1, 1928 to March 31, 1929.

During the year we purchased a new tractor and ladder nozzle. We have about the same amount of supplies.

Total number of fires 359. Which is 80 more than last year.

Laid 31,400 feet of hose.

Used 2,129 gallons of chemicals.

Used 2,577 feet of ladders.

Travelled 340 miles.

Total expense of operating department . . .	\$69,654.91
Gas refund \$11.38. Gas	
oline \$39.50	50.88

\$69,604.93

Total value involved on buildings and contents where fires occurred \$2,543,000.

Insurance on buildings where fires occurred, \$961,500.

Insurance on contents where fires occurred, \$132,000.

Loss on buildings, \$87,807.00.

Loss on contents, \$56,533.00.

In closing I wish to extend my thanks to his honor, the Mayor, and all City Officials for courtesies shown to members of the Department and myself.

CHARLES ANDREWS,
Chief of Fire Department.

Ordered printed in minutes.
Enter Ald. Severance.

Annual Report

of the

Board of Public Works

1928

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

Gentlemen:

I respectfully submit the following report of work done by the Board of Public Works, under the direction of your City Engineer during the year of 1928.

Respectfully submitted,
GEO. H. SANDENBURGH,
City Engineer.

Pavements

Thirteen streets were paved during the season of 1928. The number of square yards of pavement in these thirteen streets is 46,214. The total cost of pavements built was \$153,555.25, this is considerably less than the amount for 1927 when the total cost of pavements built was \$230,023.66. Of the 45,051 square yards of pavement built during the season of 1928, 35,451 square yards was 1½-1½ sheet asphalt on a six (6") concrete base, 7,953 square yards was seven (7") reinforced concrete and 1,647 square yards was six (6") reinforced concrete.

The aggregate for the concrete base used for the concrete pavement was washed sand and pebbles obtained from the West Lib-

erty Street pit of the Killins Gravel Company. The sand and pebbles were accurately measured before being loaded into the trucks, insuring accurate volume control of each batch. The cement was added at the mixer. Each car load of cement was sampled by this office, and tested at the State Highway Laboratory. The sand and pebbles were tested at frequent intervals to insure its complying with our specifications.

An inspector was on each job continually from the time grading started until the pavement was completed. The asphalt top was inspected by the Chicago Paving Laboratory, Inc., Asphalt specialists. Their contract being for both street and plant inspection and analysis and control of all ingredients entering into the asphalt mixture. In addition to the street inspector on asphalt pavements an inspector was placed on the work from our office to check the smoothness of the finished surface. This surface was required to check to a ten foot straight edge within one quarter of an inch.

The State Highway Department paid one half the cost of the east half of the South State Street pavement plus an allowance of \$3,180.00 for gravel surface.

The construction cost of all pavements built during the year 1928 amounts to \$153,555.25. Of this amount the State Highway Department paid \$7,886.71 as its share of the South State Street pavement, which leaves \$145,668.54 as the amount spent by the City for new pavements this year. Cost of engineering on this work was \$905.60, inspection \$2,070.65, office expense \$2,735.22 for a total overhead expense of 3.86% of the construction cost.

An itemized statement of the cost of each pavement follows:

DISTRICT NO. 92

West Jefferson St.

South Main Street to South Seventh St.

Contract cost	\$27,020.60
Engineering	62.21
Inspection	481.44
Sewer Work	163.00
Monument Boxes	58.50
Office Overhead	540.41

Total Cost	\$28,326.16
City Share	\$11,383.62
Property Share	16,942.54

DISTRICT NO. 93

Monroe Street

State Street to East University Avenue.

Contract Cost	\$17,771.58
Engineering	144.74
Inspection	284.59
Sewer Work	712.77
Monument Boxes	19.50
Office Overhead	355.43

Total Cost	\$19,288.61
City Share	\$ 6,768.53
Property Share	\$12,520.08

DISTRICT NO. 94

East Kingsley Street

North State Street to Detroit Street

Contract Cost	\$13,421.52
Engineering	121.82
Inspection	231.88
Sewer Work	195.58

Monument Boxes	6.50
Office Overhead	268.43

Total Cost	\$14,245.73
City Share	\$ 4,054.39
Property Share	\$10,191.34

DISTRICT NO. 95

Granger Avenue

Packard Street to South State St.

Contract Cost	\$18,334.22
Engineering	88.45
Inspection	325.93
Sewer Work	110.00
Monument Boxes	70.00
Sanitary Sewer House Connections	142.34
Water Taps	125.00
Office Overhead	366.68

Total Cost	\$19,562.62
City Share	\$ 6,359.89
Property Share	\$12,935.39
Sewer & Water Services	267.34

DISTRICT NO. 96

East Liberty Street

(Widening)

South State Street to South Fifth Ave.

Contract Cost	\$10,180.69
Engineering	167.36
Inspection	123.26
Sewer Work	217.54
Office Overhead	203.61

Total Cost	\$10,892.46
City Share	\$ 2,955.01
Property Share	\$ 7,937.45

DISTRICT NO. 97

South Division Street

East Madison Street to Hill Street.

Contract Cost	\$8,086.19
Engineering	53.70
Inspection	124.70
Sewer Work	54.00
Monument Boxes	13.00
Office Overhead	161.72

Total Cost	\$8,493.31
City Share	\$2,521.10
Property Share	\$5,972.21

DISTRICT NO. 98

East Ann Street

North Fifth Avenue to North Division Street.

Contract Cost	\$4,647.59
Engineering	25.23
Inspection	31.82
Sewer Work	13.00
Office Overhead	92.95

Total Cost	\$4,810.59
City Share	\$1,196.99
Property Share	\$3,613.60

DISTRICT NO. 99

Adams Avenue

Contract Cost	\$3,920.26
Engineering	36.73
Inspection	28.89
Sewer Work	92.80
Repairing & Replacing Sidewalks	231.88
Office Overhead	78.41

Total Cost	\$4,388.97
City Share	\$1,170.47
Property Share	\$3,218.50

DISTRICT NO. 100

Harvard Place

Contract Cost	\$4,277.76
Engineering	83.53
Inspection	17.35
Sewer Work	75.12
Monument Castings	56.00
Sanitary Sewer Connections	125.61
Water Services	200.00
Office Overhead	85.56

Total Cost	\$4,920.93
City Share	\$1,021.26
Property Share	\$3,574.06
Sewer & Water Services	\$ 325.61

DISTRICT NO. 101

Forest Avenue

Washtenaw Avenue to East Huron Street.

Contract Cost	\$18,949.41
Engineering	60.46
Inspection	297.85
Sewer Work	9.00
Monument Castings	58.00

Office Overhead	378.99
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Total Cost	\$19,753.71
City Share	\$ 6,012.30
Property Share	\$13,741.41

DISTRICT NO. 102

Kenwood Avenue

Contract Cost	\$3,067.57
Engineering	14.49
Inspection	27.93
Sewer Work	18.00
Sewer & Water Connections	49.25
Office Overhead	61.35

Total Cost	\$3,238.59
City Share	\$ 650.03
Property Share	\$2,539.31
Sewer & Water Services	\$ 49.25

DISTRICT NO. 103

Greenwood Avenue

Contract Cost	\$3,558.46
Engineering	22.68
Inspection	41.68
Sewer Work	85.19
Monument Boxes	13.00
Office Overhead	71.17

Total Cost	\$3,792.18
City Share	\$ 768.48
Property Share	\$3,023.70

DISTRICT NO. 104

South State Street

Granger Avenue to South City Limits.

Contract Cost	\$11,412.15
Engineering	24.20
Inspection	53.33
Miscellaneous	44.50
Office Overhead	70.51
Sewer Services to Vacant Property	61.70
Water Services to Vacant Property	175.00

Total Cost	\$11,841.39
City Share	\$ 1,214.81
Property Share	\$ 2,503.17
State Highway Department	\$ 7,886.71
Sewer & Water Services	\$ 236.70

Detroit Street

PAVEMENTS

Summary

Central 7.5 feet Catherine Street to Depot Street.

Construction Cost	\$5,364.81
Engineering	24.25
Inspection	73.56

Construction Cost	\$147,843.78
Engineering ..	905.60 or 0.610%
Office Overhead	2,735.22 or 1.850%
Inspection.. ..	2,070.65 or 1.400%
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Total Engineer- ing Cost	3.86%

SUMMARY OF PAVEMENTS

Street and Limits	District No.	Width	Length	Type of Surface	Base
W. Jefferson St., Main to Seventh	92	24 34	2281	1½-1½ Sheet Asphalt	6" Con.
Monroe St., State to E. University	93	34	1276	1½-1½ Sheet Asphalt	6" Con.
E. Kingsley St., State to Detroit..	94	34	997	1½-1½ Sheet Asphalt	6" Con.
Granger Ave., Packard to State..	95	30	1794	1½-1½ Sheet Asphalt	6" Con.
E. Liberty Wid'g, State to 5th Ave.	96	27 to		7" Concrete	
Division St., Madison to Hill	97	34	816	1½-1½ Sheet Asphalt	6" Con.
E. Ann St., 5th Ave. to Division.	98	38	543	7" Reinf. Concrete	
Adams Ave., Main to Hill	99	17½	646	7" Reinf. Concrete	
Harvard Pl., Geddes N'yly	100	21	1060	6" Reinf. Concrete	
Forest Ave., Washtenaw to Huron	101	34	1611	1½-1½ Sheet Asphalt	6" Con.
Kenwood Ave., Jackson to Abbott	102	24	588	7" Reinf. Concrete	
Greenwood, Packard to E. Univ..	103	21	779	7" Reinf. Concrete	
State St., Granger to City Limits	104	34	1131	1½-1½ Sheet Asphalt	6" Con.
Detroit St. (D. U. R. tracks) Catherine to Fuller		7½' Strip	1472	4" Brick	6" Con.
Totals.....			14994		

For the first time since 1921 the City government was able this year to build all the curb and gutter that property owners have petitioned for, and for the first time since 1925 that we have been able to complete the work let to contract. This year we completed all the work let to contract with the exception of about seven hundred feet

on Sunset Road. This year we built 55,009 lineal feet of curb and gutter at a cost of \$52,050.98. We have built 341,650 lineal feet or approximately sixty five miles of curb and gutter since 1919, this is approximately 32.5 miles of street. I estimate that approximately 42% of the streets in the City are paved and that 85% are either paved

BUILT IN 1928

Sq. Yds. of Pavement	Lin. Ft. Curb and Gutter	Cost of Excavation	Total Cost	City's Share	Property's Share	Total Cost per Sq. Yd.	Contract Cost Pavement only per Sq. Yd.
8874	235	\$1800.00	\$ 28326.16	\$11383.62	\$16942.54	\$3.18	\$2.70
4733	2565	1180.80	19288.61	6768.53	12520.08	3.74	2.80
3520	2119	693.90	14245.73	4054.39	10191.34	3.68	2.80
5785	0	1267.20	19295.28	6359.89	12935.39	3.34	2.80
Curb only							
1750	2780	933.60	10892.46	2955.01	7937.45	6.22	2.30
2597	81	544.15	8493.31	2521.10	5972.21	3.27	2.80
2123	0	261.00	4810.59	1196.99	3613.60	2.76	2.00
1069	1300	195.00	4388.97	1170.47	3218.50	3.41	2.06
1647	155	269.00	4595.32	1021.26	3574.06	2.79	2.30
5966	0	1431.00	19753.71	6012.30	13741.41	3.31	2.80
1371	0	244.44	3189.34	650.03	2539.31	2.33	2.00
1640	0	262.40	3792.18	768.48	3023.70	2.31	2.00
3976			St. 7886.71 City 3717.98	1214.81	2503.17		
1163	0	320.40	5462.62	5462.62	0.00	4.70	4.00
46214	9235	\$9402.89	\$158138.97	\$51539.50	\$98712.76		

or curbed and guttered.

The same high quality of curb and gutter was built this year as in the year 1927. We are still using the 1-2-2 mix adopted in 1927 and find this a very satisfactory workable mix.

The total engineering cost for curb and gutter built was 9.75% of the construction cost. This is due to the fact that the amount of Engineering is practically the same for curb and gutter as it is for pavements and the cost of curb and gutter is much less.

An itemized statement of the cost of curb and gutter built during the season of 1928 follows:

DISTRICT NO. 106

Berkshire Road

Dorset Road to Geddes Avenue.

Contract Cost	\$1,942.38
Engineering	190.17
Inspection	71.31
Sewer Work	9.00
Office Overhead	38.85

Total Cost

City Share	\$ 679.59
Property Share	\$1,572.12

DISTRICT NO 111

Mack Road

Wilmot Street to Elm Street.

Contract Cost	\$581.50
Engineering	63.47
Inspection	5.56
Office Overhead	11.63

Total Cost

City Share	\$182.98
Property Share	\$479.18

DISTRICT NO. 113

Brooklyn Avenue

Ferdon Road to Wallingford Road.

Contract Cost	\$1,745.69
Engineering	197.51
Inspection	27.78
Sewer Work	30.89
Office Overhead	34.91

Total Cost

City Share	\$ 721.32
Property Share	\$1,315.46

DISTRICT NO. 117

Highland Road

Geddes Avenue to Concord Road.

Contract Cost	\$2,306.98
Engineering	211.46
Inspection	24.00
Sewer Work	23.86
Office Overhead	46.13

Total Cost

City Share	\$ 799.68
Property Share	\$1,812.75

DISTRICT NO. 125

Brooks Street

Sunset Road to North Line Springhill Addition.

Contract Cost	\$1,578.14
Engineering	127.86
Inspection	30.26
Office Overhead	31.56

Total Cost

City Share	\$ 586.27
Property Share	\$1,181.55

DISTRICT NO. 134

Berkshire Road

Dorset Road South to Angle.

Contract Cost	\$1,687.89
Engineering	111.61
Inspection	63.46
Sewer Work	14.50
Office Overhead	33.76

Total Cost

City Share	\$ 603.32
Property Share	\$1,307.90

DISTRICT NO. 136

Awixa Road, Highland Road and Lafayette Road

Contract Cost	\$4,568.95
Engineering	302.62
Inspection	65.11
Sewer Work	27.00
Office Overhead	91.38

Total Cost

City Share	\$1,324.44
Property Share	\$3,730.62

DISTRICT NO. 137**Doty Avenue**

Contract Cost	\$1,705.20
Engineering	62.60
Inspection	46.16
Office Overhead	34.10

Total Cost	\$1,848.06
City Share	\$ 591.88
Property Share	\$1,256.18

DISTRICT NO. 142**Brockman Boulevard**

Copley Avenue to Shadford Road.

Contract Cost	\$1,234.49
Engineering	140.48
Inspection	11.11
Sewer Work	9.12
Office Overhead	24.69

Total Cost	\$1,419.89
City Share	\$ 365.47
Property Share	\$1,054.42

DISTRICT NO. 143**Baldwin Place**

Contract Cost	\$570.64
Engineering	25.05
Inspection	5.56
Office Overhead	11.41

Total Cost	\$612.66
City Share	\$163.53
Property Share	\$449.13

DISTRICT NO. 144**Abbott Avenue**

Virginia Avenue to Montgomery Avenue

Contract Cost	\$1,253.00
Engineering	40.38
Inspection	21.35
Office Overhead	25.06

Total Cost	\$1,339.79
City Share	\$ 320.82
Property Share	\$1,018.97

DISTRICT NO. 145**Third Street**

Mosley Street to Davis Avenue.

Contract Cost	\$2,290.97
Engineering	58.41
Inspection	29.86
Office Overhead	45.81

Total Cost	\$2,425.05
City Share	\$ 841.79
Property Share	\$1,583.26

DISTRICT NO. 146

Edgewood Avenue; Davis Avenue; Wilder Place.

Contract Cost	\$2,523.19
Engineering	149.94
Inspection	37.50
Office Overhead	50.46

Total Cost	\$2,761.09
City Share	\$ 813.33
Property Share	\$1,947.76

DISTRICT NO. 147**Woodlawn Avenue**

Packard Street to Sheehan Ave.

Contract Cost	\$1,708.61
Engineering	38.28
Inspection	11.11
Office Overhead	34.17

Total Cost	\$1,792.17
City Share	\$ 476.36
Property Share	\$1,315.81

DISTRICT NO. 148**Onondaga Street**

Hill Street to Geddes Ave.

Contract Cost	\$1,227.73
Engineering	79.20
Inspection	24.72
Sewer Work	14.74
Office Overhead	24.55

Total Cost	\$1,370.94
City Share	\$ 498.44
Property Share	\$ 872.50

DISTRICT NO. 149

North University Avenue

Forest Avenue to Observatory Street.

Contract Cost	\$1,107.26
Engineering	58.02
Inspection	11.11
Sewer Work	3.51
Office Overhead	22.15

Total Cost	\$1,202.05
City Share	\$ 395.12
Property Share	\$ 806.93

DISTRICT NO. 150

Forest Avenue

Washtenaw Avenue to S. University Avenue.

Contract Cost	\$ 989.43
Engineering	52.50
Inspection	11.11
Sewer Work	68.80
Repairing Walk	43.47
Office Overhead	19.79

Total Cost	\$1,185.10
City Share	\$ 422.34
Property Share	\$ 762.76

DISTRICT NO. 151

South Seventh Street

Madison Street to Pauline Blvd.

Contract Cost	\$3,290.17
Engineering	113.41
Inspection	43.75
Sewer Work	10.00
Office Overhead	65.80

Total Cost	\$3,523.13
City Share	\$ 970.74
Property Share	\$2,552.39

DISTRICT NO. 152

Morton Avenue

Packard Street to Ferdon Road.

Contract Cost	\$2,646.60
Engineering	99.09
Inspection	22.22
Sewer Work	16.85

Office Overhead	52.93
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Total Cost	\$2,837.69
City Share	\$ 819.15
Property Share	\$2,018.54

DISTRICT NO. 153

Devonshire Road

Washtenaw Avenue to 80 feet East of Devonshire Heights Addition.

Contract Cost	\$2,110.14
Engineering	104.22
Inspection	22.22
Sewer Work	.70
Office Overhead	42.20

Total Cost	\$2,279.48
City Share	\$ 551.85
Property Share	\$1,727.63

DISTRICT NO. 154

Montgomery Avenue

West Washington Street to Charlton Avenue.

Contract Cost	\$1,081.70
Engineering	38.33
Inspection	86.66
Office Overhead	21.63

Total Cost	\$1,228.32
City Share	\$ 306.95
Property Share	\$ 921.37

DISTRICT NO. 155

Pauline Boulevard

Fifth Street to Seventh Street.

Contract Cost	\$ 982.61
Engineering	33.72
Inspection	78.66
Office Overhead	19.65

Total Cost	\$1,114.64
City Share	\$ 498.03
Property Share	\$ 616.61

DISTRICT NO. 156

Rose Avenue

Golden Avenue to White Street.	
Contract Cost	\$1,197.27
Engineering	30.68

Inspection	63.02
Office Overhead	23.95
	<hr/>
Total Cost	\$1,314.92
City Share	\$ 351.39
Property Share	\$ 963.53

Cost of Inspection is 2.00% of Construction Cost.

Office Overhead is 2.00% of Contract Cost.

Total Engineering Cost is 9.75%.

**CURB AND GUTTER
SUMMARY**

Construction Cost	\$40,602.98
Contract Cost	40,330.54
Engineering	2,329.01
Inspection	813.60
Office Overhead	806.57

Cost of Engineering is 5.75% of Construction Cost.

DISTRICT NO. 126

Sunset Road

Wildt Street to City Limits. Not Complete. Cost to date.

Contract	\$6,026.60
Engineering	469.44
Inspection	214.07
Sewer Work	161.89

Cost to date\$6,872.00

SUMMARY OF CURB AND GUTTER BUILT IN 1928

Street and Limits	District No.	Length	Total Cost	City to Pay	Property to Pay	Am't. of Contract	Cost per Ft.	Contractor
Berkshire Road—Dorset to Geddes	106	2,533	\$ 2,251.71	\$ 679.59	\$ 1,572.12	\$ 1,942.38	.89	L. W. Dailey
Mack Road—Wilmot to Elm	111	724	662.16	182.98	479.18	581.50	.91	L. W. Dailey
Brooklyn Ave.—Ferdon to Wallingford	113	2,083	2,036.78	721.32	1,315.46	1,745.69	.98	L. W. Dailey
Highland Road—Geddes to Concord	117	2,839	2,612.43	799.68	1,812.75	2,306.98	.92	L. W. Dailey
Brooks St.—Sunset to N. L. Springhill Add.	125	2,108	1,767.82	586.27	1,181.55	1,578.14	.84	L. W. Dailey
†Sunset Road—Reservoir to Wildt	126	7,600	6,872.00			6,026.60		L. W. Dailey
Berkshire Road—Dorset to Angle S. of Vinewood	134	2,198	1,911.22	603.32	1,307.90	1,687.89	.87	L. W. Dailey
Awixa Road—Lenawee Drive, Highland Rd., Lafayette Rd.	136	5,434	5,055.06	1,324.44	3,730.62	4,568.95	.93	L. W. Dailey
Doty Ave.—Dexter N'ly to End	137	1,846	1,848.06	591.88	1,256.18	1,705.20	1.00	L. W. Dailey
Brockman Blvd.—Copley to Shadford	142	1,398	1,419.89	365.47	1,054.42	1,234.49	1.02	L. W. Dailey
Baldwin Place—Baldwin E'ly to End	143	609	612.66	163.53	449.13	570.64	1.09	L. W. Dailey
Abbott Ave.—Virginia to Montgomery	144	1,450	1,339.79	320.82	1,018.97	1,253.00	.92	L. W. Dailey
Third St.—Mosley to Davis	145	1,808	2,425.05	841.79	1,583.26	2,290.97	1.34	L. W. Dailey
Edgewood Ave., Wilder Place, Davis Ave.—5th St. to E. L. Lot 74	146	3,101	2,761.09	813.33	1,947.76	2,523.19	.89	L. W. Dailey
Woodlawn Ave.—Packard to Sheehan	147	1,827	1,792.17	476.36	1,315.81	1,708.61	.98	L. W. Dailey
Sheet Totals		37,558	\$35,367.89	\$8,470.78	\$20,025.11	\$31,724.23		

†Not completed. Cost to date.

Street and Limits	District No.	Length	Total Cost	City to Pay	Property to Pay	Am't. of Contract	Cost per Ft.	Contractor
Onondaga St.—Hill to Geddes	148	1,304	1,370.94	498.44	872.50	1,227.73	1.05	L. W. Dailey
N. University Ave. (Volland St.)—Forest to Observatory	149	1,118	1,202.05	395.12	806.93	1,107.26	1.08	L. W. Dailey
Forest Ave.—Washtenaw to So. University	150	984	1,185.10	422.34	762.76	989.43	1.19	L. W. Dailey
S. Seventh St.—Madison to Pauline	151	3,850	3,523.13	970.74	2,552.39	3,290.17	.92	L. W. Dailey
Morton Avenue—Packard to Ferdon	152	3,125	2,837.69	819.15	2,018.54	2,646.60	.91	L. W. Dailey
Devonshire Road—Washtenaw to 80 ft. E. of E. L. Devonshire Heights	153	G. 806 C. & G. 1,636	2,279.48	551.85	1,727.63	2,110.14	G. .68 C. & G. 1.02	L. W. Dailey
Montgomery Ave.—Washington to Charlton	154	1,268	1,228.32	306.95	921.37	1,081.70	.97	Geo. Walterhouse
Pauline Boulevard—Fifth St. to Seventh St.	155	1,184	1,114.64	498.03	616.61	982.61	.94	Geo. Walterhouse
Rose Avenue—Golden to White	156	1,442	1,314.92	351.39	963.53	1,197.27	91	Geo. Walterhouse
*Concord Road—Lafayette to Highland		734	626.82	39.62	587.20	587.20	.85	Geo. Walterhouse
Sheet Totals		17,451	\$16,683.09	\$4,853.63	\$11,829.46	\$15,220.11		
Totals for 1929								
*Private contract.		55,009	\$52,050.98	\$13,324.41	\$31,854.57	\$46,944.34		

STORM SEWERS

During the year of 1928 the Department built 12,284 lineal feet of storm sewer. This work was all done by contract. The contractors being R. T. Liddicoat and The United Construction Company. The cost of the 12,284 feet of sewer built in 1928 was \$39,552.55. The total cost of Engineering was 4.23% of the construction cost.

An itemized statement of the cost of each storm sewer follows:

East University Avenue: Packard Street to Monroe Street.

Contract Cost	\$15,205.05
Engineering	104.79
Inspection	236.00
Flushtank Connection	35.00
Lowering Water Services	59.95
Repairing Pavement	457.55
Office Overhead	304.10

Total Cost \$16,402.44

Abbott Avenue: Revena Blvd. to End.

Contract Cost	\$5,939.48
Engineering	8.31
Inspection	142.31
Miscellaneous	9.24
Office Overhead	118.79

Total Cost \$6,218.13

Sunset Road: Main Street to Spring Street.

Contract Cost	\$3,112.85
Engineering	56.96
Inspection	138.61
Miscellaneous	25.00
Repair Pavement	37.10
Office Overhead	62.26

Total Cost \$3,432.78

South Seventh St.: Madison Street to Pauline Blvd.

Contract Cost	\$2,784.27
Engineering	34.08
Inspection	56.03
Lowering Water Services	3.11
Repair Pavement	80.60
Office Overhead	55.69

Total Cost \$3,013.78

Awixa Avenue: From Drain to Lenawee.

Contract Cost	\$1,691.07
Engineering	20.68
Inspection	27.56
Miscellaneous	265.63
Office Overhead	33.82

Total Cost \$2,038.76

Rose Avenue: Golden Ave. to White St.

Contract Cost	\$1,815.23
Engineering	41.03
Inspection	57.93
Material Furnished By City	27.00
Lowering Water Service	.75
Office Overhead	36.30

Total Cost \$1,978.24

Highland Road & Lenawee Drive, Awixa Road to Concord Road.

Contract Cost	\$1,196.30
Engineering	23.66
Inspection	29.86
Office Overhead	23.93

Total Cost \$1,273.75

Buena Vista Avenue: Murray-Washington Drain Nly.

Contract Cost	\$948.33
Engineering	12.57
Inspection	16.67
Office Overhead	18.97

Total Cost \$996.54

Onondaga Street: Geddes Avenue to Seneca Street.

Contract Cost	\$771.35
Engineering	15.54
Inspection	22.21
Material furnished by City	81.00
Office Overhead	15.43

Total Cost \$905.53

Wilmot Street: Washtenaw Avenue to Mack Road.

Contract Cost	\$754.99
Engineering	13.17
Inspection	16.67
Repairing Pavement	38.35
Material furnished by city	13.50
Office Overhead	15.10

Total Cost \$851.78

Montgomery Avenue: Abbott Avenue to Washington Street.

Contract Cost	\$616.90
Engineering	12.04
Inspection	32.41
Material furnished by city	27.00
Office Overhead	12.34

Total Cost\$700.69

Monroe Street: Packard Street East 315 Feet.

Contract Cost	\$568.00
Engineering	5.75
Inspection	16.67
Office Overhead	11.36

Total Cost\$601.78

N. University Avenue: Camden Court East 255 Feet

Contract Cost	\$526.74
Engineering	11.09
Inspection	16.67
Lowering Water Services..	6.84

Office Overhead 10.53

Total Cost\$571.87

Koch Avenue: First Street to Third St.

Contract Cost	\$533.35
Engineering	5.79
Inspection	16.67
Office Overhead	10.67

Total Cost\$566.48

STORM SEWER SUMMARY

Construction Cost\$37,631.53

Engineering, 365.46 or .097% of construction cost.

Inspection, 826.27 or 2.20% of construction cost.

Office Overhead, 729.29 or 1.94% of construction cost.

Total Engineering Cost, 4.237%.

SUMMARY OF STORM

Streets and Limits	Size of Main	Length of Main	Length of Inlet Connect.	Inlets (Regular)	Manholes
Abbott Ave., Revena W'ly to End	24	990	251	10	5
Sunset Road, N. Main to Spring	12 15	1,840 98	321	15	11
Awixa Road, Drain to Lenawee	12 15	648 96	370	14	9
So. Seventh St., Madison to Pauline	12 15	393 1,279	280	13	6
Buena Vista Ave., Murray- Washtenaw Drain N'ly ..	12	379	42	4	4
Monroe St., Packard St. E'ly	12	327	81	4	3
Koch Ave., First St. to Third St.	12	309	53	4	3
Wilmot St., Washtenaw to Mack	12	490	122	6	2
Onondaga St., Geddes to Seneca	12	330	135	7	2
N. University Ave., Camden Ct. E'ly	12	243	72	5	2
Montgomery Ave., Abbott to Washington	12	300	31	2	2
Rose Ave., Golden to White	12 20	513 310	362	12	4
Highland Rd., Lenawee, Awixa to Concord	12	498	60	5	4
E. University - Packard Prospect - E. Univ. to Church, Oakland - E. Univ. to Tappan	8" San 12 30 36	426 574 1,766 475	596	20	1 F.T. 20M.H.
Totals		12,284	2,776	121	77M.H. 1 F.T.

SEWERS BUILT IN 1928

Total Cost	Amount of Contract	5% Retained on Contract	When Due	Contractor
\$ 6,218.13	\$ 5,939.48	\$ 292.64	1-21-30	United Const. Co.
3,432.78	3,112.85	154.63	1-21-30	R. T. Liddicoat
2,038.76	1,691.07	80.86	1-21-30	R. T. Liddicoat
3,013.78	2,784.27	139.01	1-21-30	R. T. Liddicoat
996.54	948.33	46.81	1-21-30	United Const. Co.
601.78	568.00	28.40	1-21-30	R. T. Liddicoat
566.48	533.35	26.66	1-21-30	R. T. Liddicoat
851.78	754.99	36.52	1-21-30	R. T. Liddicoat
905.53	771.35	38.56	1-21-30	United Const. Co.
571.87	526.74	24.82	1-21-30	R. T. Liddicoat
700.69	616.90	30.84	1-21-30	United Const. Co.
1,978.24	1,815.23	90.52	1-21-30	R. T. Liddicoat
1,273.75	1,196.30	58.97	1-21-30	United Const. Co.
16,402.44	15,205.05	741.18	1-21-30	R. T. Liddicoat
<u>\$39,552.55</u>	<u>\$36,463.91</u>	<u>\$1,790.42</u>		

SANITARY SEWERS

District No. 175

Wildt Street, Sunset Road and Brooks Street.

Contract Cost	\$13,830.87
Engineering	130.46
Inspection	269.65
Flushtank Connection ..	50.00
Office Overhead	276.62

Total Cost	\$14,557.60
City Share	\$ 1,363.10
Property Share	\$13,194.50

District No 176

Longman Lane.

Contract Cost	\$2,023.40
Engineering	25.84
Inspection	61.64
Flushtank Connection	25.00
Office Overhead	40.47

Total Cost	\$2,176.35
City Share	\$ 64.75
Property Share	\$2,111.60

District No. 177

Arbor View Boulevard & Wildwood Avenue.

Contract Cost	\$2,869.35
Engineering	30.00
Inspection	41.06
Flushtank Connection	25.00
Office Overhead	57.39

Total Cost	\$3,022.80
City Share	\$1,069.75
Property Share	\$1,953.05

SANITARY SEWERS SUMMARY

Construction Cost \$18,823.62
 Engineering, 186.30 or .99% of construction cost
 Inspection, 372.35 or 1.98% of construction cost.
 Office Overhead, 374.48 or 1.99% of construction cost.
 Total Engineering Cost, 4.96%.

SUMMARY OF SANITARY

Streets and Limits	District	Size of Main	Length Main	Manholes	Flushtanks	Total Cost
Wildt St., Summit to Sunset; Sunset, Wildt to Spring and Beechwood to Brook; Brooks, Sunset S'yly	175	8"	3,688	23	2	\$14,557.60
Longman Lane, Fairview Ave. to Jackson Pl.	176	8"	776	4	1	2,176.35
Arbor View Blvd., Revena to Wildwood; Wildwood, Arbor View to Harbrooke	177	8" 12"	300 622	4	1	3,022.80
*Maple Ridge Sub-Main S'yly.....		8"	374	2	0	700.00
*Ridgeway		8"	460	1	1	825.00
Totals			6,220	34	5	\$21,281.75
*Private Contract						

GENERAL SUMMARY

Pavements Construction Cost	\$147,843.78
Curb and Gutter Construction Cost	40,602.98
Storm Sewers Construction Cost	37,631.53
Sanitary Sewers Construction Cost	18,823.62
	\$244,901.91

Total Engineering Cost \$12,514.80 or 5.11%.

BROADWAY GRADE SEPARATION BRIDGE

The building this year of the Broadway Grade Separation Bridge was the biggest improvement made in the City in the past twenty years. The need for this improvement has been apparent for a great many years. Very few of us believed that it would be built in

1928, but events moved faster than we expected.

On January 1925, Alderman E. E. Ware of the Fifth Ward called the attention of the Common Council to the necessity for a new Grade Separation Bridge over the Michigan Central Railroad on Broadway and offered the following resolution.

Resolved, that the City Engineer and Railway Committee arrange for a meeting in Ann Arbor of the Chief Engineer of the Michigan Central Railroad; Bridge Engineer of the State Highway Department; Representatives of Utilities Commission and President of Board of Public Works and such other department heads as shall be necessary, the meeting to be held at an early date This resolution was passed unanimously by the Council. A request for a meeting was sent to the Chief Engineer of the Michigan Central Railroad, but

SEWERS BUILT IN 1928

City to Pay	Property to Pay	Amount of Contract	5% Retained on Contract	When Due	Contractor
\$1,363.10	\$13,194.50	\$13,830.87	\$656.58	12-17-29	United Constr. Co.
64.75	2,111.60	2,023.40	101.17	12-17-29	United Constr Co.
1,069.75	1,953.05	2,869.35	143.46	12-17-29	United Constr. Co.
0.00	700.00	700.00	0.00		R. T. Liddicoat
0.00	825.00	825.00	0.00		R. T. Liddicoat
\$2,497.60	\$18,784.15	\$20,248.62	\$901.21		

no meeting was held until December 1925.

Preliminary plans were developed by your Engineering Department by Mr. W. S. Housel under the direction of your City Engineer and submitted to the Common Council in November 1925. Nothing further was done until December 5, 1927 when Alderman Earl Severance offered a resolution to the effect that the President of the Council appoint a committee, including the Mayor, to consider plans for proposed new bridge over the Michigan Central Railroad on Broadway and to renew negotiations with the Railroad Company relative to cost and construction.

President Woodbury appointed the following to serve on the Committee, Alderman Severance, Chairman; Alderman Freeman, Lutz, Slauson, Lucas, Maulbetsch, Ham-mial and Mayor Staebler. This committee met and after discussion, authorized the mayor to appoint a Commission of ten prominent local engineers to act with the City Engineer in developing plans for the Broadway Grade Separation Bridge and a street layout adjacent to the bridge. Mayor Staebler appointed the following engineers to act on the Commission. Professor H. E. Riggs, chairman, Professor L. M. Gram, L. E. Ayres, H. H. Atwell, Professor John Worley, A. R. Bailey, Ezra Shoecraft, Professor F. N. Menefee. This Commission held meetings on December 28, 1927, January 25 and February 10, 1928. The February 10th meeting being a joint meeting with the Chief Engineer of the Michigan Central Railroad.

The Commission studied the plans as drawn by this department in 1925 and had other studies made, but finally accepted the department plan as the best solution of the problem. One addition to our plan was made, that being a wider pavement opposite the depot. This plan was approved by the Commission and Railroad officials at the February 10th meeting. On March

18th, 1928, Professor H. E. Riggs, as Chairman of the Bridge Commission, reported to the Common Council that the Commission had agreed on a plan which was acceptable to the Michigan Central Railroad's Chief Engineer. The Council appointed Mayor Staebler, Professor H. E. Riggs, the City Attorney and City Engineer as a committee to negotiate with the Michigan Central Railroad Company.

On April 6th, 1928 a communication was received from Mr Henry C. Shearer, Vice President and General Manager of the Michigan Central Railroad Company, stating that the plans as submitted by the Bridge Commission were satisfactory to his Company and that the Michigan Central Railroad Company would pay fifty (50) percent of the cost of the project. He also stated that their legal department was preparing the necessary contracts and agreements.

Detail plans of the bridge structure were drawn by the Bridge Engineer of the Michigan Central Railroad Company. Pavement and sewer plans were prepared by your Engineer's office.

Plans, specifications and preliminary estimates were approved by the Board of Public Works on May 18, 1928, the Common Council ordered the Board to advertise for bids on June 5, 1928, on June 7th, the Board advertised for bids to be received on June 14, 1928. Bids were received by the Michigan Central Railroad Company on June 14 and on June 20, the Contract for the project was awarded by the Board to Ferguson and Edmonson of Pittsburgh, Pa., the lowest bidder.

Work was started on June 27, 1928 and just four months later on Saturday morning, October 27, 1928 at 9:00 a. m., the bridge was opened to traffic. Owing to the deep fills on the approaches they were not paved this year, but will be paved in 1929 The limestone railing on the bridge structure will be

placed in 1929.

The construction was all done under the direct supervision of the Bridge Department of the Michigan Central Railroad Company. They bought all materials and paid the contractor. However, they worked in close harmony with this office and were always willing to take suggestions and cooperated with us in every way.

The cost of the project has been approximately \$178,000.00 to January 1st., 1929. The City has paid the Michigan Central \$100,000.00 to date. The cost to the City of the project to date is as follows:

Paid Michigan Central Railroad Company.....	\$100,000.00
Property Purchase	30,615.00

Moving Houses	4,500.00
Extension Division Street (Pavement) ..	297.90
Miscellaneous	181.80
Engineering & Inspec- tion	2,802.97

Total Cost to City....\$138,397.67

Received from State Highway Department	30,615.00
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Net Cost to City to
January 1, 1929.....\$107,782.67

State aid on this project will amount to \$66,375.75. A complete report of this project will be found in our report for the year of 1929.

ALL IMPROVEMENTS IN 1928

Location	Improvement	Contractor	Total Cost	Engineer's Estimate	Eng., Insp., and Office Overhead	Cost of Construction	Amount Retained
Berkshire Rd., Dorset N	Curb & Gutter	L. W. Dailey	\$ 2,251.71	\$ 2,500.96	\$ 300.33	\$ 1,951.38	
Mack Road	Curb & Gutter	L. W. Dailey	662.16	848.43	80.66	581.50	
Brooklyn Avenue	Curb & Gutter	L. W. Dailey	2,036.78	2,418.57	260.20	1,776.58	
Highland Road	Curb & Gutter	L. W. Dailey	2,612.43	2,659.36	281.59	2,330.84	
Brooks Street	Curb & Gutter	L. W. Dailey	1,767.82	2,019.60	189.68	1,578.14	
†Sunset Road	Curb & Gutter	L. W. Dailey	6,872.00	8,077.41	845.40	6,026.60	
Berkshire Rd., Dorset S.	Curb & Gutter	L. W. Dailey	1,911.22	2,180.93	208.83	1,702.39	
Awixa, Highland, Lafayette	Curb & Gutter	L. W. Dailey	5,055.06	4,691.39	459.11	4,595.95	
Doty Avenue	Curb & Gutter	L. W. Dailey	1,848.06	1,691.58	142.86	1,705.20	
Brockman Boulevard	Curb & Gutter	L. W. Dailey	1,419.89	1,314.50	176.28	1,243.61	
Baldwin Place	Curb & Gutter	L. W. Dailey	612.66	515.41	42.02	570.64	
Abbott Avenue	Curb & Gutter	L. W. Dailey	1,339.79	1,423.34	86.79	1,253.00	
Third Street	Curb & Gutter	L. W. Dailey	2,425.05	2,427.81	134.08	2,290.97	
Edgewood, Davis	Curb & Gutter	L. W. Dailey	2,761.09	2,848.23	237.90	2,523.19	
Woodlawn Avenue	Curb & Gutter	L. W. Dailey	1,792.17	1,854.82	83.56	1,708.61	
Onondaga Street	Curb & Gutter	L. W. Dailey	1,370.94	1,278.42	128.47	1,242.47	
N. University Ave.	Curb & Gutter	L. W. Dailey	1,202.05	1,123.15	91.28	1,110.77	
Forest Avenue	Curb & Gutter	L. W. Dailey	1,185.10	936.38	83.40	1,101.70	
S. Seventh Street	Curb & Gutter	L. W. Dailey	3,523.13	3,745.94	222.96	3,300.17	
Morton Avenue	Curb & Gutter	L. W. Dailey	2,837.69	3,236.37	174.24	2,663.45	
Devonshire Road	Curb & Gutter	L. W. Dailey	2,279.48	2,483.25	168.64	2,110.84	
Montgomery Avenue	Curb & Gutter	L. W. Dailey	1,228.32	1,282.05	146.62	1,081.70	
Pauline Blvd.	Curb & Gutter	L. W. Dailey	1,114.64	1,373.35	132.03	982.61	
Rose Avenue	Curb & Gutter	L. W. Dailey	1,314.92	1,577.29	117.65	1,197.27	
*Concord Road	Curb & Gutter	L. W. Dailey	626.82	626.82	39.62	587.20	
W. Jefferson St.	Pavement	Ann Arbor Const. Co.	28,326.16	30,333.60	1,084.06	27,242.10	
Monroe St.	Pavement	Ann Arbor Const. Co.	19,288.61	18,877.27	784.76	18,503.85	
E. Kingsley St.	Pavement	Ann Arbor Const. Co.	14,245.73	13,793.62	622.13	13,623.60	
Granger Ave.	Pavement	Ann Arbor Const. Co.	19,295.28	19,557.78	781.06	18,514.22	

E. Liberty St.	Pavement	Lewis & Frisinger Co.	10,892.46	10,513.68	494.23	10,398.23	
Division St.	Pavement	Ann Arbor Const. Co.	8,493.31	10,913.21	340.12	8,153.19	
E. Ann St.	Pavement	Lewis & Frisinger Co.	4,310.59	5,370.75	150.00	4,660.59	
Adams Ave.	Pavement	Lewis & Frisinger Co.	4,383.97	4,353.53	144.03	4,244.94	
Harvard Pl.	Pavement	Lewis & Frisinger Co.	4,595.32	5,493.13	186.44	4,408.88	
Forest Ave.	Pavement	Ann Arbor Const. Co.	19,753.71	20,778.45	737.30	19,016.41	
Kenwood Ave.	Pavement	Ann Arbor Const. Co.	3,189.34	3,570.60	103.77	3,085.57	
Greenwood Ave.	Pavement	Ann Arbor Const. Co.	3,792.18	7,006.45	135.53	3,656.65	
State St.	Pavement	Ann Arbor Const. Co.	11,604.69	11,604.69	148.04	11,456.65	
Detroit St.	Pavement	Ann Arbor Const. Co.	5,462.62	7,387.31	97.81	5,364.81	
Abbott Ave.	Storm Sewer	United Const. Co.	6,218.13	6,394.58	269.41	5,948.72	\$ 292.64
Sunset Rd.	Storm Sewer	R. T. Liddicoat	3,432.78	4,789.84	257.83	3,174.95	154.63
Awixa Rd.	Storm Sewer	R. T. Liddicoat	2,038.76	1,892.83	82.06	1,956.70	80.86
So. Seventh St.	Storm Sewer	R. T. Liddicoat	3,013.78	4,828.23	145.80	2,867.98	139.01
Buena Vista Ave.	Storm Sewer	United Const. Co.	996.54	1,121.89	48.21	948.33	46.81
Monroe St.	Storm Sewer	R. T. Liddicoat	601.78	933.57	33.78	568.00	28.40
Koch Ave.	Storm Sewer	R. T. Liddicoat	566.48	822.86	33.13	533.35	26.66
Wilmot Ave.	Storm Sewer	R. T. Liddicoat	851.78	1,232.99	44.94	806.84	36.52
Onondaga St.	Storm Sewer	United Const. Co.	905.53	858.55	53.18	852.35	38.56
N. University Ave.	Storm Sewer	R. T. Liddicoat	571.87	810.26	38.29	533.58	24.82
Montgomery Ave.	Storm Sewer	United Const. Co.	700.69	892.10	56.79	643.90	30.84
Rose Ave.	Storm Sewer	R. T. Liddicoat	1,978.24	3,043.04	135.26	1,842.98	90.52
Highland-Lenawee	Storm Sewer	United Const. Co.	1,273.75	1,431.10	77.45	1,196.30	58.97
E. University Ave., Prospect, Oakland	Storm Sewer	R. T. Liddicoat	16,402.44	22,821.12	644.89	15,757.55	741.18
Wildt, Sunset, Brooks	San'y Sewer	United Const. Co.	14,557.60	12,171.55	676.73	13,880.87	656.58
Longman Lane	San'y Sewer	United Const. Co.	2,176.35	1,843.05	127.95	2,048.40	101.17
Arbor View-Wildwood	San'y Sewer	United Const. Co.	3,022.80	2,917.20	128.45	2,894.35	143.46
*Maple Ridge	San'y Sewer	R. T. Liddicoat	700.00			700.00	
*Ridgeway	San'y Sewer	R. T. Liddicoat	700.00			825.00	
†Broadway Grade Separation Bridge	Bridge	Ferguson & Edmonson	138,397.67		2,802.97	135,594.70	
	Sidewalks	Thos. Hession	6,007.10		1,371.88	4,635.22	
	Sidewalks	Geo. Walterhouse	339.76		77.54	262.22	
		Totals	\$415,768.78	\$293,494.19	\$17,750.02	\$398,018.76	\$2,691.63

†Not completed—cost to date.

*Private Contract.

Summary of Sewers, Pavements, Curb and Gutter and Bridges:

The total cost of Sewers, Pavements, Curb and Gutters and Bridges built up to and including 1928 is divided as follows:

Pavements	\$1,488,866.52
Curb & Gutters	326,510.85
Sanitary Sewers	572,987.49
Storm Sewers	502,079.74
Bridges	104,503.97

\$2,994,948.57

The total cost of Pavements, Curb and Gutters, Storm and Sanitary Sewers and Bridges is listed below, according to the year of completion.

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	33,400.93
1911	82,549.47
1912	20,022.31
1913	54,369.77
1914	51,218.16
1915	51,163.83
1916	57,588.48
1917	58,919.23
1918	66,369.90
1919	60,559.17

1920	152,562.43
1921	120,963.41
1922	184,948.15
1923	191,271.06
1924	394,062.13
1925	195,434.53
1926	224,370.71
1927	357,203.67
1928	264,152.25

Total \$2,994,948.57

GENERAL INFORMATION

Number of miles of street in the city	63.75
Number of miles of pavement in the city	29.27
Percentage of miles of streets paved	46%
Number of miles of Sanitary Sewers	54.95
Number of miles of Storm Sewers	25.09
Number of miles of Curb and gutter	64.61

Population of Ann Arbor

1860	5,094
1870	7,363
1880	8,061
1890	9,431
1900	14,509
1910	14,817
1920	19,516
1926	25,000
1927	25,500
1928	26,800
1929 Estimate of population..	27,950

FIVE PERCENTS RETAINED PAID IN 1928

Sanitary Sewers

District No. 171	\$ 64.39	Ole Johnsen
District No. 172	187.58	M. T. Meljanic
District No. 173	77.00	Wm. Eddy & Son
District No. 174	36.13	Wm. Eddy & Son

\$ 365.10

Storm Sewers

Henry Street	\$ 379.51	Ole Johnsen
Oak Crest Subdivision	318.29	Ole Johnsen
Hoover Ave. and Green St.	289.79	Ole Johnsen
Pauline Boulevard	238.19	Ole Johnsen
Berkshire Road	148.05	Ole Johnsen
Mosley St., First and Third Sts.	125.68	Ole Johnsen
Highland Road and Lafayette Road ..	68.65	Ole Johnsen
West Summit St.	62.43	Ole Johnsen
Fifth Avenue at John St.	42.78	Ole Johnsen
First Street, Jefferson Street S'ly ..	25.83	Ole Johnsen
Montgomery Ave. and Abbott Ave. ...	296.84	R. T. Liddicoat
Fountain Street	50.25	R. T. Liddicoat
	<hr/>	
	\$2,046.29	

Building Department

The year 1928 has been another record breaking year for building operations in the City of Ann Arbor. The value of building permits each year, for the past three years, has surpassed that of the previous year. This shows a gradual increase in building activities and a very

healthy sign of a gradual growth of the City. The number of new dwellings built during 1928 was 290, an increase of 38 over the year 1927 when 252 new dwellings were built. A tabulated list of the several types of buildings erected, along with the estimated cost of each building, is given below.

Class	No. of Permits	Total Cost
Dwellings	290	\$2,272,500.00
Bank Buildings	2	630,000.00
Womens' League Building	1	600,000.00
Alterations	230	382,600.00
Store Buildings	11	188,500.00
Warehouses	2	104,000.00
Factory	1	96,690.00
Church	1	75,000.00
Garages	200	59,815.00
Gasoline Stations	6	31,000.00
Public Garages	2	14,000.00
Office Building	1	3,500.00
Pavillion	1	3,500.00
Dog Kennel	1	2,000.00
	<hr/>	
	749	\$4,463,105.00

The cost to the Engineering Department of handling the Housing Code has been 186.42.

Automobiles

The cost of operating the cars used by this department during the year 1928 is listed below:

Chevrolet No. 1	
304 gallons gas	\$ 51.16
35 quarts oil	6.21
8 quarts alcohol	1.20

Maintenance & repair	67.21
Insurance	26.85

Total operating cost\$152.63

Miles traveled	4,964
Miles per gallon gas	16.33
Miles per quart oil	141.13
Operating cost per mile ..	.0308

Chevrolet No. 8

205 gallons gas	\$ 35.34
11 quarts oil	1.92
Maintenance & repair	123.60
Insurance	24.65

Total operating cost \$185.51

Miles traveled	3,142
Miles per gallon gas	15.38
Miles per quart oil	285.64
Operating cost per mile .....	.053

Old Dodge No. 2

219 gallons gas	\$ 35.45
19 quarts oil	3.42
2 quarts alcohol .....	.30
Maintenance & repair	103.80
Insurance	50.65

Total operating cost \$193.62

Miles traveled	2,409
Miles per gallon gas	11.00
Miles per quart oil	126.77
Operating cost per mile .....	.0804

New Dodge No. 2

505 gallons gas	\$ 84.28
19 quarts oil	3.42
3 quarts alcohol .....	.45
Maintenance & repair	73.00

Total operating cost \$161.15

Miles traveled	4,563
Miles per gallon gas	9.03
Miles per quart oil	240.16
Operating cost per mile .....	.035

Ford No. 10

336 gallons gas	\$ 56.90
35 quarts oil	6.30
7 quarts alcohol	1.05
Maintenance & repair	77.90
Insurance	21.25

Total operating cost \$163.40

Miles traveled	4,099
Miles per gallon gas	12.20
Miles per quart oil	114.26
Operating cost per mile .....	.0399

Annual Report of Municipal Garage**Receipts**

Engineering department..\$ 1,115.07

Health department	563.55
Park department	356.37
Police department	1,440.48
Street department	7,174.90
Water department	1,648.95
Fire department	6.50
Cemetery department .....	.73

\$12,306.55

Gas tax refund

\$ 834.57

\$13,141.12

Supplies on hand Jan 1,

1929

1,725.00

Budget 1928-1929

900.00

\$15,766.12

Expenditures

Supplies & Equipment	\$11,080.84
Mechanic's salary	2,400.00
Relief Mechanic's salary	90.00
Supplies on hand Jan 1,	
1928	739.66

\$14,310.50

\$ 1,455.62

Engineer's Office.

The cost of running your Engineering Department, including all equipment and supplies and all the time devoted to running the department by myself and employees has been distributed as follows:

1 Engineer's Office.

1A. Administration	\$ 4,553.98
1C. Records	770.01
1D. Correspondence	186.22
1E. Reports	405.98
1G. Office supplies	542.71
1H. Office equipment	122.23
1-I. Surveying supplies..	474.24
1J. Surveying equipment	134.70
1L. Preliminary estimates	37.49
1M. General surveys	1,591.09
1N. Sickness & Vacations	315.30
1Q. Building Code	186.42
1S. General office work	5,104.27
1T. Smoke regulation	73.48

\$14,498.12

Receipts	\$ 12.00
	<hr/>
	\$14,486.12

2 General Equipment

2A. Chevrolet No. 1	\$ 146.65
2B. Dodge No. 2	1,243.39
2C. Chevrolet No. 8	159.05
2D. Emergency Car No. 3	69.95
2E. Pump No. 1	16.04
2F. Pump No. 2	10.17
2H. Ford No. 10	159.68
	<hr/>
	\$1,804.93

3. Work for other departments.

3D. Park department	\$ 153.73
3F. Street department	131.50
	<hr/>
	\$ 285.23
Receipts	190.89
	<hr/>
	\$ 94.34

4. Sewer Work

Sanitary Sewer Maintenance & Repair.	
Labor	\$1,785.80
Supplies	1,762.09
	<hr/>
Receipts	\$3,547.89
Receipts	190.15
	<hr/>
	\$3,357.74

Henry Street Pumping Station.	
Labor	\$ 11.60
Supplies	170.58
	<hr/>
	\$ 182.18

Storm Sewer Maintenance & Repair.	
Labor	\$ 882.68
Supplies	1,322.36
	<hr/>
	\$2,205.04

Sewer Foreman Salary	
Labor	\$ 407.87

5. City Buildings & Structures
Comfort Station.

Janitor's Salary	\$ 600.00
Supplies	901.79
Repairs	173.89
	<hr/>
	\$1,675.68
Receipts	403.40
	<hr/>
	\$1,272.28

Polling Places.	
Labor	\$ 7.64

6. Sidewalks.

6A. Sidewalk grades	\$1,449.42
6B. Sidewalk billing	13.24
6C. Sidewalk inspection	942.17
	<hr/>
	2,404.83
	<hr/>
	\$26,222.97

Summary

Total expenditure	\$27,019.41
Total receipts	796.44
	<hr/>
Net cost	\$26,222.97

Summary of Expenditures for Office Equipment & Supplies for General Work of the Department

1A. Administration	\$ 53.98
1E. Reports	9.00
1G. Office supplies	542.71
1H. Office equipment	122.23
1-I. Surveying supplies	385.85
1J. Surveying equipment	120.63
1M. General surveys	2.58
1Q. Building code	27.50
1S. General office work	739.21
	<hr/>
	\$ 2,003.69

Summary of Cost for Sanitary and Storm Sewer Maintenance Supplies

4A. Sanitary Sewer Maintenance & Repair	\$1,762.09
4B. Henry Street Pumping Station	170.58
4C. Storm Sewer Maintenance & Repair	1,322.36
	<hr/>
	\$3,255.03

Summary Cost for Sanitary and Storm Sewer Maintenance Labor

4A. Sanitary Sewer Maintenance & Repair	\$1,785.80
4B. Henry Street Pumping Station	11.60

4C. Storm Sewer Main- tenance & Repair ..	882.68
	\$2,680.08

Total Expenditures

The total expenditure of this department is itemized below:

Services:

Engineering	\$20,868.96
Clerical	1,500.00
Inspection	3,495.82
Sewer Maintenance ..	2,680.08
Sewer Foreman salary	407.87
Sewer Work on Con- struction Jobs	275.30
	63,732.38
Supplies	63,732.38
	92,960.41
Receipts	881.06
	\$92,079.35

Credits

**Assessment & Con-
struction Work:**

Engineering	\$ 6,600.03
Inspection	3,495.82
Sewer Work	275.30
Supplies	55,569.85
Office Overhead	4,645.56
	\$70,586.56
Total Net Expenditure out of Budget	21,492.79
Budget for 1928	\$34,813.98
Expenditure out of Bud- get	21,492.79
	\$13,321.19

**Bridge Culvert and Crosswalk
Fund**

The total expenditure out of the Bridge Culvert and Crosswalk Fund by the Engineering Department is itemized below:

Storm Sewer Mainte- nance	\$ 2,205.04
Storm Sewer Construc- tion	39,552.55
	\$41,757.59

**Summary of Monthly Labor
Reports**

General Work of the Department.

1. Engineer's Office.

1A. Administration	\$ 4,500.00
1C. Records	770.01
1D. Correspondence	186.22
1E. Reports	396.98
1-I. Surveying Supplies	88.39
1J. Surveying Equip- ment	14.07
1L. Preliminary Esti- mates	37.49
1M. General Surveys ..	1,588.51
1N. Sickness & Vaca- tions	315.30
1Q. Building Code	158.92
1S. General Office Work	4,365.06
1T. Smoke Regulation ..	73.48
	\$12,494.43

3. Work for Other Departments

3D. Park Department ..	\$ 153.73
3F. Street Department ..	117.70
	\$ 271.43

4. Sewer Work—

4A. Sanitary Sewer Maintenance & Re- pair	\$1,785.80
4B. Henry Street Pump- ing Station	11.60
4C. Storm Sewer Main- tenance & Repair ..	882.68
4D. Sewer Foreman Sal- ary	407.87
	\$3,087.95

5. City Buildings & Structures

5A. Comfort Station ..	\$ 600.00
5D. Polling Places	7.64
	\$ 607.64

6. Sidewalk Grades

6A. Sidewalk Grades ..	\$ 1,449.42
6B. Sidewalk Billing	13.24
6C. Sidewalk Inspection	932.77
	\$ 2,395.43

Total General Work of the Department	\$18,856.88
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Assessment & Construction Work

337. Repaving East Huron Street	\$ 49.38
389. E. University Ave. Storm Sewer, Packard Street to Monroe Street	72.98
448. Greenwood Avenue Pavement	22.68
464. Broadway Grade Separation Bridge	1,828.21
490. Berkshire Road Curb & Gutter, Dorset Rd to Geddes Avenue	142.02
494. Sewage Disposal Plant	712.10
517. S. State Street Pavement, Granger Avenue to City Limits	24.20
518. Mack Road Curb & Gutter, Wilmot Street to Elm Street ..	24.39
520. Brooklyn Ave. Curb & Gutter, Ferdon Road to Wallingford Road	139.28
524. Highland Road Curb & Gutter, Geddes Road to Concord Road	115.85
526. S. Seventh Street Curb & Gutter, Madison Street to Pauline Boulevard	87.02
533. Brooks Street Curb & Gutter between N. Line of Spring Hill Add'n. & Chubb Road	95.80
534. Sunset Road between W. Line of Section 20, T2S, R6E and Wildt St. Curb & Gutter	383.09
547. Third Street Curb & Gutter, Mosley Street to Davis Avenue	57.58
552. Berkshire Road Curb & Gutter, Dorset Road to Angle ..	53.33
553. Rose Avenue Storm Sewer, Golden Avenue to White Street	31.55
555. S. Seventh Street Storm Sewer, Madison Street to Pauline Boulevard	28.51
570. Awixa Road, Lenawee Dr. Highland Road & Lafayette Road Curb & Gutter	302.62
571. Doty Avenue Curb & Gutter	49.30
584. Jefferson Street Pavement, Main Street to Seventh Street	44.36
585. Monroe Street Pavement, East University Avenue to State Street	129.46
586. Kingsley Street Pavement, State Street to Detroit Street ..	106.54
587. Division Street Pavement, Madison Street to Hill Street ..	46.06
588. Adams Avenue Pavement	30.87
589. E. Ann Street Pavement, State Street to Ingalls Street ..	19.65
590. E. Liberty Street Pavement, Fifth Avenue to State Street ..	152.08
593. Onondaga Street Curb & Gutter, Hill Street to Geddes Avenue	75.00
594. Edgewood Ave. Davis Ave. to Hoover Ave. Davis Ave. Fifth St. to the Intersection of Davis Ave. with the East boundary line of Lot 74 of Edgewood Sub'n. and on Wilder Place from Davis Avenue to Hoover Avenue	138.99
595. Granger Avenue Pavement, Packard Street to State Street ..	88.45
596. East Ann Street Pavement, Fifth Avenue to Division Street ..	25.23
597 Harvard Place Pavement, Geddes Ave. to End	83.53
598. Brockman Boulevard Curb & Gutter, Copley Avenue to Shadford Road	140.48

599. Abbott Ave. Curb & Gutter, Virginia Ave. to Montgomery Avenue	40.38
600. N. University Avenue Curb & Gutter, Forest Avenue to Observatory St.	58.02
601. Baldwin Place Curb & Gutter	25.05
602. Woodlawn Avenue Curb & Gutter, Packard Street to Sheehan Ave.	38.28
603. Forest Avenue Pavement, Washtenaw Avenue to Huron Street	60.46
605. Eighth Street Sanitary Sewer, Willow Street to W. Park Sub-Main	19.93
606. Forest Avenue Curb & Gutter, South University Avenue to Washtenaw Avenue	52.50
607. Charlton Avenue Storm Sewer	28.17
608. Detroit Street Pavement, Catherine Street to Depot Street	24.25
609. Kenwood Avenue Pavement, Jackson Avenue to Abbott Avenue	14.49
610. Onondaga Street Storm Sewer, Geddes Avenue to Seneca Avenue	15.54
611. Wilmot Street Storm Sewer, Washtenaw Avenue to Mack Road	13.17
612. Monroe Street Storm Sewer, Packard Street East 315 Feet	5.75
613. N. University Avenue Storm Sewer, Camden Court East 255 Feet	11.09
614. Koch Avenue Storm Sewer, First Street to Third Street ..	5.79
616. Awixa Road Storm Sewer, First Angle North of Geddes to Lenewee Dr.	20.68
617. Sunset Road Storm Sewer, Spring Street to Wildt Street ..	56.96
618. N. University Avenue Pavement, East University Avenue to Forest Avenue	0.00
619. Wildt Street Sanitary Sewer, Summit St. to Sunset Road; Sunset Road, Wildt Street to Spring Street & from Beachwood to Brooks Street & Brooks Street, Sunset Road 350 feet Sly.	130.46
620. Montgomery Avenue Curb & Gutter, Washington Street to Charlton Avenue	38.33
621. Concord Road Curb & Gutter, Lafayette Road to Highland Road	39.62
622. Rose Avenue Curb & Gutter, Golden Avenue to White Street	30.68
623. Devonshire Road Curb & Gutter, Washtenaw Avenue to End	104.22
624. Pauline Boulevard Curb & Gutter, Fifth Street to Seventh Street	33.72
625. Morton Avenue Curb & Gutter, Packard Street to Ferdon Road	99.09
626. South Division Street Pavement, Hill Street to Hoover Avenue	5.86
627. Longman Lane Sanitary Sewer, Fairview Avenue to Jackson Place	25.84
628. Beakes and Kingsley Streets Pavement	33.84

629. Abbott Avenue Storm Sewer, Revena Boulevard to Virginia Avenue	8.31
630. Arbor View and Wildwood Avenue Sanitary Sewer	30.00
632. Buena Vista Storm Sewer—Murray-Washington Drain North 360 Feet	12.57
633. Highland Road and Lenawee Drive Storm Sewer, Awixa to Concord Road	23.66
635. Montgomery Avenue Storm Sewer, Abbott Avenue to Washington Street	12.04
638. Geddes Avenue, Onondaga to City Limits; Highland Road, Geddes Avenue Nly 260 feet; Berkshire Road, Hill Street to Geddes Avenue; Awixa Road, Geddes Avenue to Angle Sanitary Sewer	77.95
639. Lincoln Avenue Pavement from Hill Street to Wells Street	19.27
640. Wells Street Pavement, Packard Street to Ferdon Road ..	37.12
641. East University Avenue Pavement, Hill Street to Packard Street	12.03
642. Day Street Curb & Gutter	12.12
643. White Street Curb & Gutter	10.03
644. Daniel Street Curb & Gutter	10.13
645. Vinewood Boulevard Curb & Gutter	2.04
	\$6,600.03

Sewer Work

448. Greenwood Avenue Pavement	\$ 58.19
464. Broadway Grade Separation Bridge	3.60
534. Sunset Road between West Line of Section 20, T2S, R6E and Wildt Street Curb & Gutter	45.21
595. Granger Avenue Pavement, Packard Street to State Street ..	106.32
597. Harvard Place Pavement, Geddes Avenue to End	61.98
	\$ 275.30

Inspection

389. East University Avenue Storm Sewer, Packard St. to Monroe St.	\$ 236.00
448. Greenwood Avenue Pavement	41.68
464. Broadway Grade Separation Bridge	361.56
490. Berkshire Road Curb & Gutter, Dorset Road to Geddes Avenue	71.31
517. South State Street Pavement, Granger Avenue to City Limits	53.33
518. Mack Road Curb and Gutter, Wilmot Street to Elm Street ..	5.56
520. Brooklyn Avenue Curb and Gutter, Ferdon Road to Wallingford Road	27.78
524. Highland Road Curb & Gutter, Geddes Avenue to Concord Road	24.00

COMMON COUNCIL—APRIL 15, 1929	
428	
526.	South Seventh Street Curb and Gutter, Madison Street to Pauline Boulevard 43.75
533.	Brooks Street between North line of Spring Hill Addition and Chubb Road Curb and Gutter 30.26
534.	Sunset Road between West Line of Section 20, T2S, R6E and Wildt Street Curb and Gutter 214.07
547.	Third Street Curb and Gutter, Mosley Street to Davis Avenue 29.86
552.	Berkshire Road Curb and Gutter, Dorset Road to Angle.. 63.46
553.	Henry Street Storm Sewer, Golden Avenue to White Street; Rose Avenue, Golden Avenue to White Street; Brooklyn Avenue, Golden Avenue to Packard Street 57.93
555.	South Seventh Street Storm Sewer, Madison Street to Pauline Boulevard 56.03
570.	Awixa Road, Lenawee Drive, Highland Road & Lafayette Road Curb and Gutter 65.11
571.	Doty Avenue Curb and Gutter 46.16
584.	Jefferson Street Pavement, Main Street to Seventh Street 126.32
585.	Monroe Street Pavement, East University Avenue to State Street 94.55
586.	Kingsley Street Pavement, State Street to Detroit Street.. 90.36
587.	Division Street Pavement, Madison Street to Hill Street.. 20.98
588.	Adams Avenue Pavement 28.89
590.	East Liberty Street Pavement, Fifth Avenue to State Street 123.26
593.	Onondaga Street Curb and Gutter, Hill Street to Geddes Avenue 24.72
594.	Edgewood Avenue, Davis Avenue to Hoover Avenue, Fifth Street to the intersection of Davis Avenue with the East boundary line of Lot 74 of Edgewood Sub'n. and on Wilder Place from Davis Avenue to Hoover Avenue 37.50
595.	Granger Avenue Pavement, Packard Street to State Street 93.89
596.	East Ann Street Pavement, Fifth Avenue to Division Street 31.82
597.	Harvard Place Pavement, Geddes Avenue to End 17.35
598.	Brockman Boulevard Curb and Gutter, Copley Avenue to Shadford Road 11.11
599.	Abbott Avenue Curb and Gutter, Virginia Avenue to Montgomery Avenue 21.35
600.	North University Avenue Curb and Gutter, Forest Avenue to Observatory Street 11.11
601.	Baldwin Place Curb and Gutter 5.56
602.	Woodlawn Avenue Curb and Gutter, Packard Street to Sheehan Avenue 11.11
603.	Forest Avenue Pavement, Washtenaw Avenue to Huron Street 59.05
606.	Forest Avenue Curb & Gutter, South University Avenue to Washtenaw 11.11
608.	Detroit Street Pavement, Catherine Street to Depot Street 73.56
609.	Kenwood Avenue Pavement, Jackson Avenue to Abbott Avenue 27.93

610. Onondaga Street Storm Sewer, Geddes Ave. to Seneca Ave.	22.21
611. Wilmot Street Storm Sewer, Washtenaw Avenue to Mack Road	16.67
612. Monroe Street Storm Sewer, Packard Street East 315 Feet	16.67
613. N. University Avenue Storm Sewer, Camden Court East 255 Feet	16.67
614. Koch Avenue Storm Sewer, First Street to Third Street	16.67
616. Awixa Road Storm Sewer, First Angle North of Geddes to Lenewee Drive	27.56
617. Sunset Road Storm Sewer, Spring Street to Wildt Street	138.61
619. Wildt Street Sanitary Sewer, Summit St. to Sunset Road; Sunset Road, Wildt St. to Spring St. & from Beachwood to Brooks Street & Brooks Street, Sunset Road 350 feet Sly	269.65
620. Montgomery Ave. Curb & Gutter, Washington Street to Charlton Avenue	86.66
622. Rose Avenue Curb & Gutter, Golden Avenue to White Street	63.02
623. Devonshire Road Curb & Gutter, Washtenaw Avenue to End	22.22
624. Pauline Boulevard Curb & Gutter	78.66
625. Morton Avenue Curb & Gutter, Packard St. to Ferdon Road	22.22
626. S. Division Street Pavement, Hill Street to Hoover Avenue	25.00
627. Longman Lane Sanitary Sewer, Fairview Avenue to Jackson Place	61.64
629. Abbot Avenue Storm Sewer, Revena Blvd. to Virginia Avenue	142.31
630. Arbor View & Wildwood Ave. Sanitary Sewer	41.06
632. Buena Vista Storm Sewer—Murray-Washington Drain North 360 Feet	16.67
633. Highland Road & Lenawee Drive Storm Sewer, Awixa to Concord Road	29.86
635. Montgomery Avenue Storm Sewer, Abbott Avenue to Washington Street	32.41

\$3,495.82

Total Assessment & Construction Work\$10,371.15

Summary of Monthly Invoices
General Office Expense

	1S. General Office Work ..	739.21
		<hr/>
		\$2,003.69
1. Engineer's Office.	2. General Equipment.	
1A. Administration\$ 53.98	2A. Chevrolet No. 1\$ 146.65	
1E. Reports 9.00	2B. Dodge No. 2 1,243.39	
1G. Office Supplies 542.71	2C. Chevrolet No. 8 159.05	
1H. Office Equipment 122.23	2D. Emergency Car No. 3 69.95	
1-I. Surveying Supplies.. 385.85	2E. Pump No. 1 16.04	
1J. Surveying Equipment 120.63	2F. Pump No. 2 10.17	
1M. General Surveys 2.58	2H. Ford No. 10 159.68	
1Q. Building Code 27.50		<hr/>
		\$1,804.93

COMMON COUNCIL—APRIL 15, 1929

3. Work for other Departments.

3F. Street Department	\$ 13.80		\$3,255.03
4. Sewer Work.		5. City Buildings & Structures.	
4A. Sanitary Sewer Maintenance & Repair	\$1,762.09	5A. Comfort Station	\$1,075.68
4B. Henry Street Pumping Station	170.58	6. Sidewalk Grades.	
4C. Storm Sewer Maintenance & Repair	1,322.36	6C. Sidewalk Inspection	\$ 9.40
		Total General Office Expense	\$8,162.53

Assessment & Construction Expense

389. E. University Avenue Storm Sewer, Packard Street to Monroe Street	\$ 320.20
448. Greenwood Avenue Pavement	40.00
464. Broadway Grade Separation Bridge	50,231.20
490. Berkshire Road Curb & Gutter, Dorset Road to Geddes Avenue	9.00
517. S. State Street Pavement, Granger Ave to City Limits	81.20
534. Sunset Road between W. Line of Section 20, T2S, R6E, and Wildt St. Curb & Gutter	116.68
552. Berkshire Road Curb & Gutter, Dorset Road to Angle	14.50
553. Rose Avenue Storm Sewer, Golden Avenue to White Street	27.00
570. Awixa Road, Lenawee Drive, Highland Road & Lafayette Road Curb & Gutter	27.00
584. Jefferson Street Pavement, Main Street to Seventh Street	576.62
585. Monroe Street Pavement, East University Avenue to State Street	922.31
586. Kingsley Street Pavement, State Street to Detroit Street	333.07
587. Division Street Pavement, Madison Street to Hill Street	170.72
588. Adams Avenue Pavement	321.88
590. East Liberty Street Pavement, Fifth Avenue to State Street	210.52
592. Alley Storm Sewer, Huron Street North 145 Ft. then W. 50 Ft. towards Chapin Street	336.10
595. Granger Ave. Pavement, Packard Street to State Street	618.06
596. E. Ann Street Pavement, Fifth Avenue to Division Street	13.00
597. Harvard Place Pavement, Geddes Avenue to End	387.03
603. Forest Avenue Pavement, Washtenaw Ave. to Huron Street	305.80
606. Forest Avenue Curb & Gutter, South University Ave to Washtenaw Ave.	43.47
608. Detroit Street Pavement, Catherine Street to Depot Street	15.50
609. Kenwood Avenue Pavement, Jackson Ave. to Abbott Avenue	67.25

526. S. Seventh St. Curb & Gutter, Madison Street to Pauline Boulevard	10.00
610. Onondaga Street Storm Sewer, Geddes Avenue to Seneca Avenue	81.00
611. Wilmot Street Storm Sewer, Washtenaw Avenue to Mack Road	13.50
616. Awixa Road Storm Sewer, First Angle N. of Geddes Ave. to Lenawee Drive	216.00
627. Longman Lane Sanitary Sewer, Fairview Avenue to Jackson Place	25.00
629. Abbot Ave. Storm Sewer, Revena Boulevard to Virginia Avenue	9.24
635. Montgomery Avenue Storm Sewer, Abbott Avenue to Washington Street	27.00
	<hr/>
	\$55,569.85
Total Assessment & Construction Expense	\$53,569.85

Total Expenditures

Services—

General Work of the Department	\$12,494.43
Work for Other Departments	271.43
Sewer Work	3,087.95
City Buildings & Structures	607.64
Sidewalks	2,395.43
Assessment & Construction Work	10,371.15
	<hr/>
Total	\$29,228.03

Material & Supplies—

General Office Expense	\$ 2,003.69
General Equipment	1,804.93
Work for Other Departments	13.80
Sewer Work	3,255.03
City Buildings & Structures	1,075.68
Sidewalks	9.40
Assessment & Construction Expense	55,569.85
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Total	\$63,732.38

Total Expenditures	\$92,960.41
Receipts	881.06
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Net Expenditures	\$92,079.35
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CLASSIFICATION OF EXPENDITURES FOR LABOR DURING 1928

	Engineering	Clerical	Inspection	Sewer Wk.	Totals
Geo. H. Sanden-					
burgh	\$ 4,500.00				\$ 4,500.00
H. R. Scovill	3,000.00				3,000.00
V. W. McAdam	2,400.00				2,400.00
K. W. Donnell	1,894.17			30.83	1,925.00

COMMON COUNCIL—APRIL 15, 1929

H Ferenz	1,562.22		240.62	122.16	1,925.00
Julius Lohrke ...	211.05			1,528.95	1,740.00
Clara Mast		1,500.00			1,500.00
W. S. Housel	1,150.60				1,150.60
Jim Acqui	69.00			1,083.30	1,152.30
Wm. B. McMillen ..	932.77				932.77
Wm. Austin	890.20			4.40	894.60
F. Schmid	383.10		1,095.69	283.71	1,762.50
W. J. Rogers			618.75		618.75
Louis Scovill	287.00			255.25	542.25
James Young	486.00			.55	486.55
Harry Caswell ...	466.57		124.99		591.66
J. K. Woodbury ..	277.00				277.00
Pete Stuhlman ..	271.75			10.75	282.50
Willard Ponto ...	263.00			11.75	274.75
Lawrence Bethke ..	254.50			12.75	267.25
Wilfred Graf ...	237.03			5.50	242.53
H. J. Marquardt ..	260.70			2.40	263.10
H. N. Carey			261.00		261.00
Geo. Steffey	232.75			3.75	236.50
E. J. London	400.00				400.00
Steve Arnold	114.81				114.81
Fred McDonald ..	85.19				85.19
Geo. M. Bleekman ..	57.78		549.72		607.50
C. J. Sweet	50.67		605.05		655.72
C. A. Sestok	56.00				56.00
G. A. Miles	19.20				19.20
P. A. Nordgren ..	18.00				18.00
F. W. Miller	14.40				14.40
G. W. Effner	9.00				9.00
D. E. Brummit ..	7.80				7.80
T. M. Salmond ..	6.60				6.60
James Elliott				5.25	5.25
Jim Mason				1.95	1.95
	<u>\$20,868.96</u>	<u>\$1,500.00</u>	<u>\$3,495.82</u>	<u>\$3,363.25</u>	<u>\$29,228.03</u>

SUMMARY OF PAVEMENTS IN THE CITY OF ANN ARBOR

Dist. No.	Street and Limits	Date	Area Sq. yds.	Total Cost	Cost per sq. yd.	Cost per sq. yd. Pavement only	Type
1 & 2	Main	1898	12,730	\$ 31,375.15	\$2.46	\$1.64	Brick on concrete
3	Washington, Ashley - 5th Av.	1899	5,140	11,645.17	2.27	1.73	Brick on concrete
4	Huron, Ashley to State	1900	10,791	27,845.38	2.58	2.17	Asphalt block on sand
5	State, Huron to Monroe	1902	12,484	31,778.98	2.55	2.16	Asphalt block on sand
6	Ann, Main to 4th Ave.	1902	1,589	2,860.70	1.80	1.39	Brick on sand
7	Liberty, Ashley to State	1903	9,140	24,486.06	2.68	2.19	Asphalt block on sand
8	Fourth Av. Huron to Liberty	1903	2,431	6,490.80	2.67	2.19	Asphalt block on sand
9	N. University	1905	5,045	10,720.16	2.03	1.63	Brick on concrete
10	Williams	1907	7,519	19,092.01	2.54	2.03	Bithulithic
11	Alley	1908	350	672.74	1.92	1.50	Brick on concrete
12	Maynard	1909	1,883	1,930.13	1.03	.78	Ann Arbor tar—concrete
13	N. Fourth Av., Huron to Ann	1910	1,159	1,351.34	1.17	.88	Ann Arbor tar—concrete
14	E. Huron and Twelfth	1910	6,765	6,685.50	.99	.76	Ann Arbor tar—concrete
15	Washington, 5th Ave. to 12th St.	1910	8,633	8,189.73	.95	.71	Ann Arbor tar—concrete
16	Washtenaw Ave.	1911	12,092	12,392.81	1.03	.78	Ann Arbor tar—concrete
17	State, Packard to Arch	1911	2,587	2,672.49	1.03	.84	Ann Arbor tar—concrete

Note:—The pavement between the rails of the street car track on Washtenaw Ave., and between the rails and for a distance of 18 inches on either side of the track on Packard and Main Sts., is of brick on concrete, and is not included in the above statement.

18	S. Main and Packard	1911	20,826	23,172.05	1.11	.78	Ann Arbor tar—concrete
19	N. Main, Catherine St. N'y	1911	10,117	11,110.86	1.10	.82	Ann Arbor tar—concrete
20	Hill and Oswego	1913	5,682	7,726.41	1.36	.93	Ann Arbor tar—concrete
21	Fifth Ave.	1911	10,483	11,678.31	1.12	.84	Ann Arbor tar—concrete
22	Alley	1911	293	314.84	1.07	.84	Ann Arbor tar—concrete
23	Alley	1911	920	1,029.38	1.12	.77	Ann Arbor tar—concrete
24	Arch and Thayer	1911	1,833	1,747.35	.95	.77	Ann Arbor tar—concrete
25	State, Monroe to Packard	1911	3,158	3,181.57	1.01	.78	Ann Arbor tar—concrete
26	Mary	1912	2,407	2,703.08	1.12	.89	Ann Arbor tar—concrete
27	Ashley	1912	7,711	9,071.92	1.18	.91	Ann Arbor tar—concrete
28	W. Liberty St., Ashley to City Limits	1913	15,612	20,836.90	1.34	.98	Ann Arbor tar—concrete
29	W. Huron, Ashley to Forks	1913	14,131	19,257.61	1.36	1.01	Ann Arbor tar—concrete
30	Church St., Washtenaw to Prospect	1914	11,832	14,802.93	1.25	.98	Ann Arbor tar—concrete
31	Hill St., State to Washtenaw	Not completed					
32	Ann St., Main to First	1915	2,085	2,740.80	1.33	1.02	Reinforced concrete
33	Jefferson St., 5th Av. to State	1915	4,924	8,665.40	1.62	1.30	Asphaltic concrete
34	Division, Detroit to Packard	1915	14,372	24,733.97	1.60	1.29	Asphaltic concrete
35	Geddes, Oxford to Oswego	1915	3,273	5,431.55	1.66	1.19	Reinforced concrete
36	Catherine St. and Miller Ave.	1916	9,596	22,629.31	2.36	1.95	Brick on concrete base
37	Alley, Blk. 2 S, R 3 E	1918	470	839.29	1.78	1.59	
38	Broadway, Swift to M. C. via- duct	1919	3,521	14,881.66	4.23	3.55	Brick on concrete base
39	Detroit St., Catherine St. to M. C. Viaduct	1919 and 1920	7,279	31,350.03	4.30	3.37	Brick on concrete

Note:—The pavement between the rails of the street car track and for a distance of 18 inches out on either side of the track on W. Huron St. is of brick on concrete and is not included in above statement.

Note:—Cement-sand mortar cushion used on Broadway pavement.

40	Catherine St., Fourth Ave. 1919 and and Detroit St. 1920	6,188	26,419.46	4.26	3.37	Brick on concrete
41	Jackson Forks to City Limits 1919	5,982	19,746.43	3.30	2.38	Asphaltic concrete
42	Thayer, Huron to N. Univer. 1919	2,528	7,648.54	3.03	2.25	Asphaltic concrete
43	E. University, Washtenaw 1919 and to Hill 1920	9,043	28,928.46	3.19	2.40	Asphaltic concrete
44	S. University, State to Oxford 1919 and 1920	11,474	39,182.84	3.41	2.40	Asphaltic concrete
45	Alley, Blk. 3 S, R 3 E 1920	503	1,506.23	3.00		Concrete
46	Alley, Blk. 2 N, R 3 E 1921	471	992.57	2.11		Concrete
47	Alley, Blk. 3 N, R 4 E 1921	978	1,769.85	1.79		Concrete
48	State St., Huron to Fuller ... 1922	4,962			2.51	Sheet Asphalt
49	Hill, Packard to Washtenaw 1922	3,423	29,923.48		3.79	Brick
50	Packard, Granger to Lts. ... 1922	11,806	35,383.57	3.00	2.51	Sheet Asphalt
51	Cross, Packard to Division ... 1922	5,602	17,129.92	3.06	2.51	Sheet Asphalt
52	Fourth Ave., Liberty to Packard 1923	811	1,925.32	2.73		Concrete
53	Geddes, Washtenaw to Oxford 1923	4,131.5	16,071.90	3.89	3.24	Sheet Asphalt
54	S. State, Arch to Granger ... 1923	9,641	38,473.48	3.99	3.24	Sheet Asphalt
55	Washtenaw, Oxford to Lts... 1924	7,007	27,048.30	3.86	3.24	Sheet Asphalt
56	S. Main, Packard to Lts. 1924	4,645	25,270.78	3.65	3.01	Sheet Asphalt
57	Alley, Blk. 2 S, R 5 E 1924	19,221	82,249.37	4.28	3.41	Sheet Asphalt
58	Thompson, Liberty to Packard 1924	460	1,679.48		2.97	Concrete
59	Hamilton Pl., Williams to Jefferson 1924	8,094	31,789.39	3.92	3.20	Sheet Asphalt
60	Alley, Wells to Scott, Lincoln Martin 1924	1,400	6,102.78	4.35	3.20	Sheet Asphalt
		617	2,229.08	3.61	3.00	Concrete

176

61	Maynard St., Williams to Jefferson	1924	1,833	6,629.59	*3.61	3.20	Sheet Asphalt
62	Oak Lane, Austin to Fr. Oaks	1924	422	1,427.41	3.38	2.95	Concrete
63	Observatory, Ann to Geddes	1924	6,918	27,273.80	3.94	3.20	Sheet Asphalt
64	Huron, 14th St. and Ann	1925	7,509	30,505.95	4.06	3.30	Sheet Asphalt
65	Glen, Huron to Catherine	1925	2,782	11,311.36	4.07	3.30	Sheet Asphalt
66	W. Washington, Revena and First	1925	18,939	67,939.31	3.59	3.10	Sheet Asphalt
67	Ann St., Glen to 14th	1925	1,849	7,311.82	3.95	3.30	Sheet Asphalt
68	Forest Ct., Forest E'ly	1925	573	2,375.99	4.14	2.70	Concrete
69	First St., Huron to Ann	1925	*1,273	4,708.34	3.70	3.30	Sheet Asphalt
70	State St. Widening, Huron to Williams	1925	834	7,587.03		5.20	Brick
71	S. Fifth Ave., Packard to Madison	1925	*1,820	5,059.68	2.78	2.54	Concrete
72	Ingalls St. and Kingsley St., N. University to State	1926	9,910	36,698.94	3.70	2.65	Sheet Asphalt
73	Geddes Heights, Geddes Ave. N'ly to End	1926	1,353	3,608.17	2.67	2.30	Concrete
74	N. Main St. S. T. L., No. 65- 10, 2694 N to City Lts.	1926	8,990	45,113.06	4.57		Sheet Asphalt
75	Broadway, Swift to Moore	1926	2,739	8,701.12	3.19	2.40	Concrete
76	Dexter Ave., Forks to City Limits	1927	9,968	41,228.30	3.83	3.00	Sheet Asphalt
77	Ashley, Williams to Jefferson	1927	2,256	7,155.16	2.92	2.06	Concrete
78	Third St., W. Washington to Liberty	1927	1,355	4,153.24	3.07	2.70	Sheet Asphalt

79	S. 7th St., W. Liberty to W. Madison	1927	5,202	16,116.89	3.10	2.70	Sheet Asphalt
80	N. Seventh St., Miller to Huron	1927	5,575	17,251.88	3.09	2.70	Sheet Asphalt
81	Spring, Miller to Hiscock ...	1927	4,880	15,135.54	3.10	2.75	Sheet Asphalt
82	Chapin, Miller to Huron	1927	2,081	4,883.99	2.35	2.06	Reinf. Concrete
83	Miller, Gott to Seventh	1927	1,963	8,705.69	4.08	3.50	Brick on Concrete
84	Lawrence, State to Ingalls	1927	2,243	7,713.24	3.29	2.80	Sheet Asphalt
85	Catherine, 5th Ave. to Division	1927	1,814	4,454.93	2.46	2.16	Reinf. Concrete
86	E. Ann, 4th Ave. to 5th Ave.	1927	1,152	5,228.38	4.16	3.50	Brick on Concrete
87	Elm, Geddes to S. University	1927	1,671	5,347.73	3.20	2.80	Sheet Asphalt
88	Arbor St., State to Oakland	1927	1,407	3,556.39	2.53	2.16	Reinf. Concrete
89	Ferdon Rd., Washtenaw to Granger	1927	4,414	17,644.72	2.56	2.80	Sheet Asphalt
90	Granger, Packard to Ferdon	1927	6,254	21,774.40	3.46	2.80	Sheet Asphalt
91	W. Huron widening, Ashley to A. A. R. R.	1927	1,013	4,559.90	4.50	2.00	Concrete
92	W. Jefferson, Main to 7th ...	1928	8,874	28,326.16	3.18	2.70	Sheet Asphalt
93	Monroe, State to E. Univ. ...	1928	4,733	19,288.61	3.74	2.80	Sheet Asphalt
94	E. Kingsley, State to Detroit	1928	3,520	14,245.73	3.68	2.80	Sheet Asphalt
95	Granger, Packard to State ...	1928	5,785	19,295.28	3.34	2.80	Sheet Asphalt
96	E. Liberty Widening, State to Fifth Ave.	1928	1,750	10,892.46	6.22	2.30	Concrete
97	Division, Madison to Hill ...	1928	2,597	8,493.31	3.27	2.80	Sheet Asphalt
98	E. Ann, 5th Ave. to Division	1928	2,123	4,810.59	2.76	2.00	Reinf. Concrete
99	Adams, Main to Hill	1928	1,069	4,388.97	3.41	2.06	Reinf. Concrete

100	Harvard Pl., Geddes N'ly to End	1928	1,647	4,595.32	2.79	2.30	Reinf. Concrete
101	Forest, Washtenaw to Huron	1928	5,966	19,753.71	3.31	2.80	Sheet Asphalt
102	Kenwood, Jackson to Abbott	1928	1,371	3,189.34	2.33	2.00	Reinf. Concrete
103	Greenwood, Packard to E. University	1928	1,640	3,792.18	2.31	2.00	Reinf. Concrete
104	State, Granger to City Limits	1928	3,976	State 7,886.71 City 3,717.98			Sheet Asphalt
	Detroit St., D. U. R. Tracks, Catherine to Fuller	1928	1,163	5,462.62	4.70	4.00	Brick on Concrete
	GRAND TOTALS		537,056	\$1,488,866.52			

Pavement between tracks is not included.
*Curb and Gutter was in.

SUMMARY OF STORM SEWERS IN THE CITY OF ANN ARBOR

Street	Year	Size Main	Length Main	Manhole	Inlets	Inlet Runs	Total Cost	Contractor
Prior to 1900							\$ 26,411.72	
State St. Hill to S. U.	1902	18	1,148	6	16	525	1,667.22	
Ann St. Main to 4th. Ave.	1902						543.95	
Packard & State Sts.	1905	20	320	1	7	400	361.00	
		24	300					
E. Williams, Main to Maynard	1905	20	891					

	18	248					
	15	332	6	29		3,014.67	
	10				1,166		
	30	305					
Judson's Sewer	1906	15	86	2	3	855.91	L. Dresselhouse
Roosevelt Ave	1906					854.50	
	18	1,527					
E. Washington St.....	1906	15	811				
	12	297					
E. Washington St.....	1906	10		9	28	875	3,781.82 L. Dresselhouse
Hill & Washtenaw	1909					653.90	
Washington, East of State	1910		641	3	11	390	563.37
Ann St. & Alley, B1N, R4E	1911						443.14
Alley, B35,R3E	1911						250.92
Hill St. Oxford to Cambridge.....	1911						116.87
Packard St. Hill to Monroe.....	1911	20	651	2	6	185	868.97
Hill St. Cambridge to Oswego....	1911						340.66
N. Main St.	1911						207.47
Mary & Benjamin	1911						884.78
Church St. S. U. to Washtenaw..	1911	18	916	4	15	550	1,291.44
	4x4	1,357					
Arch, White, McKinley & Packard	1911	12	270	2	8	80	3,422.95
Other Storm Sewer Work.....	1911						1,552.01
	20	1,933					
Church St. S. U. to Roosevelt....	1912	15	221	7	20	650	2,776.43
Willard St. Church Westly.....	1912		144	1	2	28	168.53
W. Liberty, Alley W. of Ashley..	1912	12	85	0	2	20	63.99
Ashley, for pavement	1912						267.00
W. Huron St. Creeks to Fork....	1913		3,435	12	28		4,483.12 City Force Acct.

W. Liberty St. Creek to City Lts. 1913	3,773	14	26		4,077.47	City Force Acct.
W. Liberty St. Cor First St. 1913			9		103.46	City Force Acct.
E. Washington, 12th to 14th. 1913	280	1	2		439.95	City Force Acct.
Cambridge Rd. Forest to Lincoln 1914	987	6	20	741	2,397.22	E. L. Schneider
W. Jefferson St. 2nd to 3rd. 1914	339	1	10	446	1,095.62	E. L. Schneider
N. Division St. Detroit to Ann. 1914	1,480	7	20	780	2,309.81	Dederich & Eddy
Madison, Division & Jefferson. 1915	1,975	12	24	752	3,646.17	Dederich & Eddy
E. Jefferson, 5th Ave. to Hamilton Place. 1915	274	3	6	173	506.23	Dederich & Eddy
Alley, North of Liberty St. 1914			1	58	33.84	City Force Acct.
Alley South of Ann St. 1914			1	43	59.64	City Force Acct.
Geddes Ave. Linden to Blvd. 1915	854	4	8	186	1,056.21	E. L. Schneider
Division St. at Liberty, Williams, Liberty 1915	95	1	1	205	253.70	City Force Acct.
Edwin & McKinley 1916	1,330		7	110	6,447.94	Barns & O'Neil
Glen Ave. Washtenaw to River 1916	2,201	21	27	1,134	13,350.33	Wm. Eddy & Son
Miller Ave. Creek to Brooks. 1916	2,124	12	28	986	7,410.60	A. H. Prange
Miller Ave Inlets for Pave. 1916		2	11	130	159.45	City Force Acct.
Small Extension & Inlets 1915			13	500	434.01	City Force Acct.
W. Jefferson St. 3d to 6th. 1917	971	4	17	605	2,027.85	Hochrein & Co.
W. Madison St. 1st. to 4th. 1917	990	6	12	544	2,766.86	Hochrein & Co.
Arch St. Packard to Oakland. 1917	375	3	6	195	674.42	Wm. Eddy & Son
State St., Edwin to Dewey, Dewey Ave. State to Packard. 1917	2,824	15	22	545	12,448.71	Wm. Eddy & Son
S. University, State to E. U. 1917	780	7	6	94	1,510.87	Wm. Eddy & Son
Cambridge Rd. Lincoln to Baldwin Baldwin Ave. Cambridge to Washtenaw 1917	1,123		20	531	4,133.03	Wm. Eddy & Son
Alley, B2N, R4E 1917			3	250	253.43	City Force Acct.
Washington & 14th Sts. 1918	824	5	10	320	3,913.58	A. W. Baldwin

Gott St. Miller to Summit.....	1918	1,224	5	14	514	5,663.73	Wm. Eddy & Son	
Catherine, Main to Alley.....	1918	119	2	1	13	713.01	Wm. Eddy & Son	
Hoover, at Hoover Ball Co.....	1918	191	1	3	84	694.07	Wm. Eddy & Son	
Jackson Ave. Huron to City Lts....	1919	1,814	12	12	513	3,879.18	Wm. Eddy & Son	
Catherine St. Main to 5th. Ave....	1919	495	6	10	418	2,248.80	Wm. Eddy & Son	
Detroit St. Kingsley to 5th. Ave....	1919	327	3	14	445	1,634.47	Wm. Eddy & Son	
Broadway, River to Swift.....	1919	210	3	7	248	1,016.12	Wm. Eddy & Son	
E. Univ. Ave. S. U. to N. U.....	1919	966	4	8	298	2,482.86	Wm. Eddy & Son	
S. Univ. Ave. Linden to Oxford....	1919	654	2	6	210	1,245.91	Wm. Eddy & Son	
Hill St. Church to E. U.....	1919	286	1	4	200	796.43	Wm. Eddy & Son	
Dexter Ave. at End of Pav't.....	1919	50				100.33	City Force Acct.	
Fourteenth St. Huron to Wash....	1920	268	1	2	24	926.89	Wm. Eddy & Son	
Hill St. Church to Lincoln.....	1920	1,238	5	9	286	2,909.45	City Force Acct.	
Alley, B3S, R3E	1920	300	3	3		489.36	City Force Acct.	
		24						
N. State St River to Huron.....	1921	1,702	30					
		634	9	22	594	15,025.06	City Force Acct.	
Fuller St. State to Elizabeth.....	1921	12	12					
		304	2	6	174	965.53	City Force Acct.	
E. Kingsley & Ingalls	1921	12	12					
		992	4	15	352	2,315.21	City Force Acct.	
		24						
		915						
Granger, Golden & Olivia.....	1921	30	30					
		39	39	10	20	558	14,782.75	City Force Acct.
		12						
		166						
Packard St. Granger, S'Ely.....	1921	15	15	3	6	145	1,589.82	City Force Acct.
Hill St. Oswego to Onondaga....	1921	12	12	3	4	68	1,114.63	City Force Acct.
		12						
		898						
		15						
		176						
Kingsley & Alley, B3N, R4E.....	1921	18	18	9	4	145	2,697.31	City Force Acct.
Sixth St. Creek to Liberty.....	1921	12	12	2	4	82	702.30	City Force Acct.
		15						
		332						
Seventh St. Creek to Madison....	1921	18	18	4	6	146	3,794.89	Wm. Eddy & Son

Alley, B2N, R3E.....	1921	12	234	2		76	685.58	Wm. Eddy & Son
Depot St.	1921	42	723					
Fifth Ave.	1921	30	868	9	27	804	20,565.77	Wm. Eddy & Son
Beakes St.	1921	15	381					
Fourth Ave.	1921	12	162					
Wells St. Olivia to Lincoln.....	1921	20	447	3	6	193	1,804.20	Sydnae Gustin Co.
		15	88					
Cambridge Rd.	1921	22	361	3	4	90	1,948.23	Sydnae Gustin Co.
Golden Ave. & Woodlawn	1922	42	823					
Packard St. & Wells	1922	42	520	10	11	376	30,860.87	Bartling & Dull
Wells & Forest to Cambridge	1922	48	1,268					
Brooks St. Miller to Hiscock.....	1922	22	459	8	10	222	4,821.69	Patrick Ryan, Jr.
		18	225					
Brooks St. N. of Pearl to Hiscock	1922	15	1,170					
Brooks St. N. of Pearl to end S. Hill	1922	12	500					
Fourth Ave. Alley to Washington.	1922	12	134	1			325.94	City Force Acct.
Broadway, Creek to Jones	1922	12	370	2	6	300	777.28	City Force Acct.
S. Division & Cross Sts.....	1922	12	613	3	7		1,092.39	City Force Acct.
Onondaga, Hill, Sly.....	1923	12	180	1	2	27	429.25	Wm. Eddy & Son
Washtenaw Ave. Oxford to Baldwin	1923	22	150	3	4	63	5,299.20	Patrick Ryan
Washtenaw Ave. Cambridge to Fer.	1923	12	225	2	8	350		
Washtenaw Ave. Wayne to Fair Oaks	1923	15	103	2	4	136		
Washtenaw Ave. Berkshire to Old Lts.	1923	12	563	3	12	320		
Washtenaw Ave. Outlets	1923	12	310					
Forest Ave. Hill to Wash.....	1923	36	2,222	9	13	260	22,604.00	Wm. Eddy & Son
Forest Ave. at Washtenaw.....	1923	30	37					
S. State, Dewey to Boulevard Dr.	1923	12	380	2	3	130	1,077.59	Patrick Ryan
Oakland Ave. Hill St. Nly.....	1924	24	513	1	2	35	3,378.57	Frank Ryan

Jefferson St. 2nd to Creek.....	1924	27	750	5	4	130	5,838.60	Frank Ryan
Second St. Jefferson, Nly.....	1924	12	372	2	2	53	972.81	Frank Ryan
Fourteenth St. Belser to Volland	1923	15	454	6	11	253	3,284.93	Patrick Ryan
Camden & Geddes	1923	12	831					
S. Main & Jefferson	1924	12	414					R. D. Ballew
S. Main, Davis to Hoover	1924	22	276					
S. Main, Pauline to Hoover.....	1924	20	377					
S. Main, Madison to Mosley.....	1924	15	456					
S. Main, Hill to Mosley	1924	12	436					
		27	48					
S. Main, Outlet at Davis	1924	18	37					
S. Main, Fischer to Berkley.....	1924	12	329					
S. Main, Outlet at Berkley.....	1924	18	38					
S. Main, outlet at Madison	1924	18	131	12	29	1,335	11,005.01	R. D. Ballew
Davis Ave. Main St. W'ly to Angle	1924	20	305	2	1	18	1,211.22	City Force Acct.
Broadway, Jones to Cedar Bend..	1924	12	1,691	9	13	272		
Broadway, Traver Ct. to Moore....	1924	20	720					
Moore St. Broadway to Traver....	1924	15	228	3	5	172		
Moore St. Traver to Cedar	1924	12	329	1	1	16		
Cedar St. Moore to Wright	1924	12	340	3	9	145	10,625.06	Wm. Eddy & Son
		15	197					
Seventh St. Cr. to Washington....	1924	18	250					
		15	665					
Washington St. 7th. to Crest.....	1924	18	593					
Crest Ave. Washington St. S'ly....	1924	12	318					
Third St. Creek to Krause	1924	12	521	12	23	1,285	9,503.44	Frank Ryan
		12	370					
Ann St. Glenn to Observatory....	1924	15	851	6	11	270	3,419.49	Frank Ryan
Spring St. Hiscock to Sub. N'ly....	1924	12	169					
Spring St. Sub. to Summit St.....	1924	24	434					
Spring St. Summit N'ly.....	1924	12	750					

Spring St. Miller Ave. to Cherry St.	1924	12	605															
Sub. Daniel St. to Spring St.	1924	22	360	11	6	145	7,667.90	R. T. Liddicoat										
Cambridge R. Washtenaw to Day	1924	15	446															
Day to Angle near Wayne	1924	22	426															
To Valley on Wayne	1924	18	335	8	10	250	5,379.02	Frank Ryan										
		22	250															
Felch St. Allens Cr. to Spring	1924	15	460	3	8	197	2,702.82	R. T. Liddicoat										
Felch St., Spring to Fountain	1924	15	420															
Felch St. Miner to Fountain	1924	12	445	3	8	330	2,694.97	R. T. Liddicoat										
Adams Ave. Hill St. to Angle	1924	12	107	1	2	25	216.52	City Force Acct.										
S. Univ. Ave. Wash. to Walnut	1924	27	386															
S. Univ. Ave. Linden to Walnut		22	401															
Walnut St., S. U. to Geddes	1924	15	718															
Elm St. S. U. to Wilmot	1924	12	570	12	9	177	7,330.35	Frank Ryan										
		18	350															
Thompson St. Packard to Cheever	1924	12	222	4	13	520	2,661.30	A. A. Asphalt Co.										
Cambridge Rd. Hill St. S'ly	1924	12	300	1	2	28	605.88	Frank Ryan										
Alley, B4S, R4E	1924	12	213	2	1		661.69	Frank Ryan										
Geddes Ave. Outlet to Awixa	1925	25	24															
Geddes Ave., Awixa to Lenawee	1925	18	382															
Geddes Ave. Lenawee to Oswego	1925	12	1,106	10	18	401	3,603.87	John Baker										
Belser St., 14th St. E'ly. 250 ft.	1925	15	250															
Belser St. 15 in. to Observatory	1925	12	366	1	2	34	748.02	John Baker										
Wayne St. Wash. to Vinewood	1925	12	523	2	5	188	1,040.66	John Baker										
Summit St., Spring to Lulu Ct.	1925	24	207	3	2	57	1,592.06	R. T. Liddicoat										
E. Summit St. Main E'ly.	1925	12	104	1	2	43	355.90	R. T. Liddicoat										
Chapin St. W. Park to Miller	1925	12	275	2	2	21	388.64	John Baker										

Ann St., Catherine, Lawrence from State to Ingalls	1925	12	1,554	5	18	647	2,971.70	John Baker
Hiscock St. Outlet to Drain	1925	18	311	2	4	56	1,351.65	R. T. Liddicoat
North Main St. City Limits, S'ly 1625 ft.	1926	12	402 1,239	20 5	8	338	4,071.17	Frank Ryan
		22	801					
Granger Ave. Golden to State....	1926	15	339	7	14	960	4,528.92	J. Brogan & Son
Dexter Ave. Forks W'ly. 1014 ft. Westwood to Fairview. Out- let in Valley 166 feet		12 12 24	1,950 148					
Run to Glendale 78 ft.....	1926	15	78	13	25	722	4,927.16	John Baker
Catherine St. Glen to Ingalls.....	1926	12	603	5	4	71	1,124.94	J. Brogan & Son
Revena Blvd., Huron St. to W. Park Sub-Main	1926	22	547	6	3	97	3,142.47	J. Brogan & Son
		12	160					
Felch St. Main to Allen's Creek....	1926	15	243	3	5	212	1,273.25	J. Brogan & Son
Davis St. Main to Greene								
Greene St. Davis St. to Hill St.		36	633					Patrick Ryan
		30	661					sublet to
Hill St. Brown to Allen's Creek....	1926	12	312	12	25	563	12,644.60	R. T. Liddicoat
Gott St. Summit N'ly. 1148 ft.....		22	611					
Hiscock St. Gott to Miner		15	536					
Pearl St. Gott to Miner		12						
Summit St. Gott to Miner	1926	12	981	11	20	664	6,248.54	R. T. Liddicoat
		30	613					
		24	298					
Henry St. Golden to Packard	1927	15	498 144	8	19	608	8,355.31	Ole Johnsen

	22	681						
Oak Crest Subdivision	18	307						
Berkley, Belmar,	15	302						
Keech and Potter .....1927	12	1,161	8	22	623	7,063.46	Ole Johnsen	
Montgomery Ave. & Abbott Av.	30	593						
Murray-Washington Drain to	24	487						
Revena Blvd .....1927			5	14	382	6,373.68	R. T. Liddicoat	
	24	380						
Hoover Ave.	20	475						
Allen's Creek to Brown St...	18	314						
Green St. Hoover to Keech....1927	15	310	9	13	588	6,217.09	Ole Johnsen	
	20	170						
	18	653						
Pauline Blvd.	15	322						
Main St. to Hutchins Ave...1927	12	665	8	20	798	5,186.12	Ole Johnsen	
Berkshire Rd.	15	575						
Geddes to Dorset .....1927	12	620			382	3,162.25	Ole Johnsen	
Mosley St. First to Third								
First St. Mosley to John R...	15	82						
Third St. Mosley to John K...1927	12	1,086	5	8	328	2,688.78	Ole Johnsen	
Highland R. & Lafayette Rd Ged-								
des to Concord .....1927	12	517	5	8	228	1,474.48	Ole Johnsen	
West Summit St. Lulu Ct. to								
Fountain St. ....1927	24	224	2	4	128	1,366.70	Ole Johnsen	
Fountain St. Felch St. to Hiscock..1927	12	413	3	5	137	1,072.85	R. T. Liddicoat	
Fifth Ave. at John St. ....1927	18	159	2	6	171	912.33	Ole Johnsen	
Buena Vista, Washington St. S'ly..1927	12	310	2	2	26	830.66	City of A. A.	
First St. Jefferson St. S'ly.....1927	15	225	1	2	42	585.69	Ole Johnsen	
Alley, Huron to Chapin .....1927	12	199	3	0	0	567.82	City of A. A.	

Abbott Ave. Revena W'ly to End.	1928	24	990	5	10	251	6,218.13	United Const.
		12	1,840					
Sunset Rd. N. Main to Spring	1928	15	98	11	15	321	3,432.78	R. T. Liddicoat
Awixa Rd. County Drain to Lenawee	1928	12 15	648 96		14	370	2,038.76	R. T. Liddicoat
		12	393					
So. Seventh St. Madison to Pauline	1928	15	1,279	6	13	280	3,013.78	R. T. Liddicoat
Buena Vista. Murray-Wash. Drain, N'ly.	1928	12	379	4	4	42	996.54	United Const.
Monroe St. Packard E'ly.	1928	12	327	3	4	81	601.78	R. T. Liddicoat
Koch Ave. First St. to Third St.	1928	12	309	3	4	53	566.48	R. T. Liddicoat
Wilmot St. Washtenaw to Mack	1928	12	490	2	6	122	851.78	R. T. Liddicoat
Onondaga St. Geddes to Seneca	1928	12	330	2	7	135	905.53	United Const.
N. University Ave. Camden Ct. E'ly	1928	12	243	2	5	72	571.87	R. T. Liddicoat
Montgomery Ave. Abbott to Wash- ington	1928	12 12	300 513	2	2	31	700.69	United Const.
Rose Ave. Golden to White	1928	20	310	4	12	362	1,978.24	R. T. Liddicoat
Highland Rd. Lenawee Dr. Awixa to Concord	1928	12	498	4	5	60	1,273.75	United Const.
E. University, Packard to Monroe, Prospect, E. University to Church, Oakland-E. Univ. to Tappan	1928	8" San. 12 30 36	426 574 1,766 475	1 F. T. 20 M.H.	20	596	16,402.44	R. T. Liddicoat
			1 F. T.					
			132,464	669 M.H.	1353	41,070	\$502,079.74	

SUMMARY OF CURBS AND GUTTERS IN THE CITY OF ANN ARBOR

District No.	Street and Limits	Year Built	Length	Total Cost	Amount of Contract	Cost per Foot	Contractor
1	Lawrence, Division to State	1919	1,284.7	\$ 1,000.00	\$ 963.58	\$.78	Thos. Hession
2	Oxford Rd., Geddes to Hill St.	1919	1,273.8	1,071.67	1,019.04	.84	Thos. Hession
3	Forest Ave., Willard to Hill	1920	1,118	1,416.16	1,341.60	1.26	Thos. Hession
4	Hill St. Lincoln to Washtenaw	1920	1,080	1,417.50	1,296.00	1.31	Thos. Hession
5	Cambridge Rd., Lincoln Ave. to Baldwin Ave.	1920	1,412	1,841.37	1,694.40	1.30	Thos. Hession
6	Martin Place, Scott Alley to Wells St.	1920	997	1,244.72	1,196.40	1.24	A. F. Thompson
7	Hill, Oswego to Berkshire Rd.	1920	1,706	2,217.14	2,047.20	1.29	A. F. Thompson
8	East Univ. Ave., Hill to Oakland Ave.	1920	1,186.5	1,481.88	1,423.80	1.25	A. F. Thompson
9	Forest Ave., S. Univ. Ave. to Willard	1920	852	1,080.00	1,022.40	1.27	Thos. Hession
10	Sixth St. Liberty St. N. to end	1921	1,008	1,248.97	1,108.80	1.24	Thos. Hession
11	Kingsley St. and Ingalls St., State to Ingalls to L'rence	1921	1,668.5	2,050.89	1,835.35	1.23	Thos. Hession
12	Olivia, Cambridge to Granger	1921	3,810	4,457.13	4,191.00	1.23	Thos. Hession
13	Baldwin, Washtenaw Ave. to Cambridge	1921	742.5	911.82	816.75	1.23	Thos. Hession

14	Ferdon, Wells to Norway Rd. 1921	475C.&G. 254C.	638.98	475.00 127.00	1.08	Sydnae Gustin & Co.
15	Dewey Ave. State to Packard 1921	2,689.5	2,916.11	2,689.50	1.08	Sydnae Gustin & Co.
16	Lincoln Ave. Hill St. to Wells 1921	3,876.3	4,183.79	3,876.30	1.08	Sydnae Gustin & Co.
17	Elm St. S. Univ. to Geddes 1921	1,360	1,542.22	1,360.00	1.13	Sydnae Gustin & Co.
18	Minerva R. Olivia to Forest 1921	771.5	806.49	771.50	1.05	Sydnae Gustin & Co.
19	McKinley Ave. Packard to White St. 1921	999	1,126.38	999.00	1.13	Sydnae Gustin & Co.
20	Prospect, Wells to E. Univ. 1921	1,870	2,042.96	1,870.00	1.09	Sydnae Gustin & Co.
21	Wells St. Forest to Olivia 1921	884	810.97	724.88	.92	Sydnae Gustin & Co.
22	Granger, Packard to Ferdon 1921	4,346.5	3,900.62	3,564.13	.90	Sydnae Gustin & Co.
23	Cambridge Rd. Baldwin Ave. to Washtenaw 1921	705	626.52	578.10	.89	Sydnae Gustin & Co.
24	Wells, Packard to Forest Ave. 1923	1,284	1,286.29	1,158.55	1.00	Michigan Constr. Co.
25	Willard St. Forest to Church 1922	664	741.65	635.80	1.12	Michigan Constr. Co.
26	Seventh St. North Miller Ave. to Huron St. 1922	3,133	3,187.93	2,890.85	1.02	Michigan Constr. Co.
27	Seventh St. South Huron St. to Madison St. 1922	5,389	5,742.24	5,103.41	1.06	Michigan Constr. Co.
28	Forest Ave. Cambridge Rd. to Wells St. 1923	1,898	1,990.22	1,790.95	1.05	Michigan Constr. Co.
29	First St. Jefferson to William 1922	1,312	1,317.89	1,218.05	1.00	Michigan Constr. Co.
30	Third St. Washington St. to Liberty St. 1922	1,118	1,131.41	1,051.45	1.01	Michigan Constr. Co.
31	Kingsley St. Main to First St. 1922	1,069	1,093.64	1,013.98	1.02	Patrick Ryan, Jr.
32	Ashley, Miller Ave. to Felch 1922	2,126	2,159.48	2,006.75	1.01	Patrick Ryan, Jr.
33	Maynard St. William St. to Jefferson St. 1922	1,064	1,145.40	1,007.55	1.07	Patrick Ryan, Jr.

34	Crest St. Huron to End	1922	2,115	2,277.27	2,006.85	1.08	Michigan Constr. Co.
				706 (C. and G.)			
34	White St. Arch to McKinley	1922	218 (G)	915.11	780.84	1.12	Patrick Ryan, Jr.
36	Brookwood Pl. Packard St. to End	1922	1,042	1,081.37	986.45	1.04	Patrick Ryan, Jr.
37	Ingalls St. & Lawrence St. Catherine St. to Thayer St.	1922	1,095	1,127.71	1,014.90	1.03	Patrick Ryan, Jr.
38	Washington, St. Ashley St. to Ravena Blvd.	1922	8,156	8,749.36	7,707.41	1.07	Michigan Constr. Co.
39	Third St. Liberty to Mosley	1922	4,350	4,939.06	4,246.45	1.13	Michigan Constr. Co.
40	Wilmot, Washtenaw to Elm	1922	1,354	1,394.08	1,292.85	1.03	Michigan Constr. Co.
41	Murray Ave. Washington St. to Liberty St.	1922	1,433	1,645.53	1,379.55	1.15	Michigan Constr. Co.
42	Fountain, Felch to Hiscock St.	1922	662	686.32	633.00	1.04	Patrick Ryan, Jr.
43	Ann St. State to Division St.	1922	1,408	1,436.72	1,342.80	1.02	Patrick Ryan, Jr.
44	Forest Ave. Cambridge Rd. to Hill St.	1922	1,861	1,866.61	1,710.20	1.00	Michigan Constr. Co.
45	Division St. Madison to Cross	1922	1,117	1,177.19	1,096.98	1.05	Patrick Ryan, Jr.
46	Walnut St. Geddes Ave. to S. University Ave.	1922	1,219	1,316.17	1,159.10	1.07	Michigan Constr. Co.
47	Oxford Rd. Hill to Washtenaw	1922	1,251	1,346.12	1,113.50	1.08	Michigan Constr. C..
48	Hill St. Packard to Main St.	1922	3,735	3,802.01	3,530.60	1.02	Patrick Ryan, Jr.
49	Michigan Ave. Wells St. to E. University Ave.	1922	1,751	1,734.53	1,665.99	.99	Patrick Ryan, Jr.
50	Wall St. Broadway to River	1923	3,080	3,119.85	2,961.70	1.05	Frank Ryan
51	S. Division St. Cross to Hill	1923	530	576.81	520.65	1.09	Frank Ryan

52	White St. McKinley Ave. to South End	1923	953	1,031.41	972.40	1.08	Frank Ryan
53	Onondaga, Hill to Dorset Rd.	1923	646	665.54	625.17	1.03	Frank Ryan
54	Thayer St. Ann to Catherine	1923	528	560.48	517.70	1.06	Frank Ryan
55	W. Madison St. Main to Ash- ley St.	1923	517	569.18	515.23	1.10	Frank Ryan
56	Brooks St., Miller Ave. to N. line Springhill	1923	5,498	5,936.40	5,501.84	1.08	Frank Ryan
57	Washington Hgts. Observa- tory St. to E. End	1923	2,136	2,275.04	2,112.96	1.07	Frank Ryan
58	Ingalls, Huron to Washington	1923	532	692.51	559.16	1.30	Frank Ryan
59	Ashley St. Jefferson to Mad- ison St.	1923	1,413	1,592.36	1,485.37	1.13	Frank Ryan
60	Moore, Broadway to Pontiac	1923	945	1,040.95	903.00	1.10	Frank Ryan
61	Catherine St. Division St. to State St.	1923	1,379	1,493.22	1,398.32	1.08	Frank Ryan
62	Broadway, Swift to City Lts.	1924	8,446	9,550.03	8,625.21	1.13	Patrick Ryan
63	Eighth St. Liberty to Huron.	1924	2,702	2,797.65	2,526.48	1.04	Patrick Ryan
64	First St. Jefferson to Madison	1924	1,498	1,562.95	1,411.22	1.04	Patrick Ryan
65	Ferdon, Granger to Brooklyn.	1924	614	640.29	551.26	1.04	Patrick Ryan
66	Second St. Liberty to Mosley.	1924	4,531	4,669.89	4,294.59	.99	Patrick Ryan
67	Spring St. Miller Ave to Chubb Rd.	1924	6,924	7,001.70	6,440.81	1.01	Patrick Ryan
68	East University Ave. Oak- land Ave. to Packard St.	1924	2,157	2,286.69	2,037.23	1.06	Patrick Ryan
				512 (C. and G.)			
69	Linden, S. Univ. to Geddes	1924	353 (G)	771.88	698.60	.98	Patrick Ryan

70	Brooklyn Ave. Packard St. to Ferdon Rd.	1924	3,792	3,752.90	3,521.28	.99	Patrick Ryan
71	Arbor St. State to Oakland ..	1924	848	959.75	874.32	1.13	Patrick Ryan
72	Greenwood Ave. East U. Ave. to Packard St.	1925	1,670	1,961.41	1,285.71	1.17	C. H. Eldred
73	Revena Blvd. Washington to End St.	1925	3,055	2,626.29	2,319.33	.86	C. H. Eldred
74	Fourth St. Liberty to Madison	1925	3,275	2,922.87	2,609.56	.89	C. H. Eldred
75	Soule, Lutz, Maxwell and Wakefield and Elder	1925	6,147	5,369.08	4,686.63	.88	C. H. Eldred
76	Catherine St. Division to Fifth Ave.	1925	1,108	991.21	918.97	.89	C. H. Eldred
77	Chapin St. Huron to Miller ..	1925	1,663	1,504.24	1,346.51	.90	C. H. Eldred
78	First St. Huron to Ann.	1925	588	560.15	471.72	.95	C. H. Eldred
79	S. Fifth Ave. Packard to Madison	1925	958	902.75	800.06	.94	C. H. Eldred
80	Elder Blvd. Bucannan to east end.	1925	1,075	1,061.39	854.05	.99	C. H. Eldred
81	First St. Madison to Mosley ..	1925	838	743.68	644.06	.89	Frank Ryan
82	Ashley St. Madison to Mosley	1925	795	680.99	611.22	.86	C. H. Eldred
83	First St. Ann to Miller	1925	586	561.16	452.84	.96	C. H. Eldred
84	Mosley St. Main to Third	1925	2,179	1,891.14	1,671.13	.87	C. H. Eldred
85	Wayne St. Loraine Pl. and Berkshire Road	1925	3,343	2,823.06	2,550.02	.84	C. H. Eldred
86	Summit St. Beakes to Main ..	1925	2,136	1,828.54	1,668.84	.86	C. H. Eldred
87	Virginia Ave. and Charlton Ave.	1925	4,403	3,806.01	3,415.56	.87	C. H. Eldred

88	W. Jefferson St. Main to to Seventh	1925	4,517	4,097.40	3,504.65	.91	Frank Ryan
89	Thayer St. Huron to Ann...	1925	642	544.86	489.78	.85	C. H. Eldred
90	Pauline Blvd. Main to Fifth	1925	Cancelled				
91	Bath St. Seventh St. to End	1926	819	777.07	689.91	.95	C. H. Eldred
92	Forest Ave. Wells to Granger	1926	1,761	1,660.18	1,531.95	.94	C. H. Eldred
93	Miner St. Felch to Hiscock	1926	3,043	2,680.15	2,399.52	.88	C. H. Eldred
94	McKinley Ave. White to State	1926	520	692.15	646.00	1.33	C. H. Eldred
95	Felch St. Spring to Gott...	1926	2,267	2,160.61	1,913.27	.95	C. H. Eldred
96	Geddes Ave. Oswego to Lts...	1926	3,696	4,033.41	3,434.04	1.09	C. H. Eldred
97	S. Fifth St. Madison to Pauline	1926	3,820	3,356.02	3,089.73	.88	C. H. Eldred
98	Cherry St. Spring to Fountain	1926	732	621.34	569.46	.85	C. H. Eldred
99	Gott St. Miller to Pearl...	1926	3,457	3,173.54	2,831.04	.92	C. H. Eldred
100	Fifth St. Liberty to Madison	1926	3,081	3,136.10	2,844.90	1.02	C. H. Eldred
101	W. Madison St. Ashley to Seventh	1926	3,936	4,023.98	3,695.64	1.02	C. H. Eldred
102	Hoover Ave., Main to Fifth	1927	2,895	2,458.44	2,193.07	.85	L. W. Dailey
103	Harvard Place, Geddes N'y to End	1927	1,898	2,157.94	1,757.54	1.14	L. W. Dailey
104	Kenwood Ave. Jackson to Abbot	1927	1,165	952.23	868.09	.82	L. W. Dailey
105	Granger Ave. Packard to State	1927	3,543	3,195.34	2,921.90	.90	L. W. Dailey
106	Berkshire Rd. Dorset to Geddes	1928	2,533	2,251.71	1,942.38	.89	L. W. Dailey
107	East Washington St. 12th St. to Forest Ave.	1927	2,024	1,802.12	1,566.75	.89	L. W. Dailey

108	Baldwin Ave. Cambridge to Wells. ....1927	2,455	2,183.42	1,981.38	.89	L. W. Dailey
109	Seneca Ave. Oswego to Onondaga .....1927	811	694.43	596.35	.86	L. W. Dailey
110	Revena, Linda Vista, Wesley Harbrooke & Linwood ....1927	8,320	6,671.22	5,947.20	.80	L. W. Dailey
111	Mack Rd. Wilmot to Elm ...1928	724	662.16	581.50	.91	L. W. Dailey
112	Sixth St. Jefferson to Madison1927	1,341	1,156.35	1,056.24	.87	L. W. Dailey
113	Brooklyn Ave. Ferdon to Wal- lingford .....1928	2,083	2,036.78	1,745.69	.98	L. W. Dailey
114	Catherine—Glen to Clark- Clark-Catherine to Ann.1927	1,925	1,623.37	1,459.39	.84	L. W. Dailey
115	Fountain St. Miller to Felch and Hiscock to Summit....1927	2,329	2,073.42	1,862.24	.89	L. W. Dailey
116	Vaughn, E. Univ. to Packard1927	1,325	1,159.52	1,036.10	.88	L. W. Dailey
117	Highland Rd. Geddes to Con- cord .....1928	2,839	2,612.43	2,306.98	.92	L. W. Dailey
118	E. Ann 5th Ave. to Division.1927	1,166	1,163.76	958.13	1.00	L. W. Dailey
119	Pauline Blvd. Main to Fifth St. ....1927	3,029	2,747.92	2,451.28	.91	L. W. Dailey
120	W. Summit St. Spring to Brooks .....1927	2,705	2,450.60	2,189.09	.91	L. W. Dailey
121	Catherine St. Ingalls to Glen1927	1,427	1,284.23	1,176.04	.90	L. W. Dailey
122	Wildwood Ave., Dexter to Harbrooke, Linwood-Wild- wood to Revena .....1927	3,385	2,978.33	2,576.74	.88	L. W. Dailey

123	E. Park Pl. Granger to Henry	1927	1,883	1,561.90	1,396.11	.92	L. W. Dailey
124	Miner St. Pearl to Heusel's Prop.	1927	1,207	1,109.28	929.65	.84	L. W. Dailey
125	Brooks St. Springhill to Sunset	1928	2,108	1,767.82	1,578.14	.86	L. W. Dailey
126	†Sunset Rd. Reservoir to Wildt	1928	7,600	6,872.00	6,026.60		L. W. Dailey
127	Oak Crest Sub. and Oak Crest No. 1	1927	12,357	10,677.72	9,489.93		L. W. Dailey
128	N. Univ. Ave. Washtenaw to Forest	1927	1,225	1,039.61	885.87	.85	L. W. Dailey
129	Hiscock St. Brooks to Daniel	1927	3,555	3,062.33	2,773.02	.86	L. W. Dailey
130	Oakland Ave. Hill St. to Arch	1927	1,470	1,491.37	1,164.33	1.01	L. W. Dailey
131	Henry St. Golden to Packard	1927	2,701	2,391.12	2,177.79	.89	L. W. Dailey
132	Vinewood Blvd. Washtenaw to Berkshire	1927	5,031	3,971.24	3,698.34	.79	L. W. Dailey
133	Buena Vista, Washington to So. End	1927	1,521	1,235.14	1,131.65	.81	L. W. Dailey
134	Berkshire Rd. Dorset to Angle	1928	2,198	1,911.22	1,687.89	.87	L. W. Dailey
135	Forest Ave. Washtenaw to Geddes	1927	699	731.77	633.90	1.05	L. W. Dailey
136	Awixa Rd. Lenawee Dr. Highland, Lafayette	1928	5,434	5,055.06	4,568.95	.93	L. W. Dailey
137	Doty Ave. Dexter to N. End	1928	1,846	1,848.06	1,705.20	1.00	L. W. Dailey
138	Brockman Blvd. Washtenaw to. Copley	1927	1,781	1,685.95	1,507.48	.95	L. W. Dailey
139	No. First Miller to Kingsley	1927	1,272	1,331.28	1,196.37	1.05	L. W. Dailey

140	Baldwin Ave. Wells St. to Granger	1927	1,777	1,722.10	1,516.34	.97	L. W. Dailey
141	Forest Ave. East Side N. Univ. to Huron	1927	1,136	1,229.22	1,077.01	1.08	L. W. Dailey
	*Forest Ave. West Side N. Univ. to Huron	1927	830	697.80	697.80	.84	L. W. Dailey
	*Forest Ave. Geddes to N. University	1927	577	477.54	477.54	.83	L. W. Dailey
142	Brockman Blvd, Copley to Shadford	1928	1,398	1,419.89	1,234.49	1.02	L. W. Dailey
143	Baldwin Pl. Baldwin E'ly to End	1928	609	612.66	570.64	1.09	L. W. Dailey
144	Abbott Ave. Virginia to Montgomery	1928	1,450	1,339.79	1,253.00	.92	L. W. Dailey
145	Third St. Mosley to Davis..	1928	1,808	2,425.05	2,290.97	1.34	L. W. Dailey
146	Edgewood Ave. Wilder Pl., and Davis Ave.	1928	3,101	2,761.09	2,523.19	.89	L. W. Dailey
147	Woodlawn Ave. Packard to Sheehan	1928	1,827	1,792.17	1,708.61	.98	L. W. Dailey
148	Onondaga, Hill to Geddes..	1928	1,304	1,370.94	1,227.73	1.05	L. W. Dailey
149	N. Univ. Ave. Forest to Ob- servatory	1928	1,118	1,202.05	1,107.26	1.08	L. W. Dailey
150	Forest Ave. Washtenaw to S. Univ.	1928	984	1,185.10	989.43	1.19	L. W. Dailey
151	So. Seventh St. Madison to Pauline	1928	3,850	3,523.13	3,290.17	.92	L. W. Dailey
152	Morton Ave. Packard to Fer- don	1928	3,125	2,837.69	2,646.60	.91	L. W. Dailey

	E'ly.	1928	806(G.)	2,279.48	2,110.14	.68(G)	L. W. Dailey
154	Montgomery Ave. Washing- ton to Charlton	1928	1,268	1,228.32	1,081.70	.97	Geo. Walterhouse
155	Pauline Blvd. Fifth St. to Seventh St.	1928	1,184	1,114.64	982.61	.94	Geo. Walterhouse
156	Rose Ave. Golden to White ..	1928	1,442	1,314.92	1,197.27	.91	Geo. Walterhouse
	*Concord Road, Lafayette to Highland	1928	734	626.82	587.20	.85	Geo. Walterhouse
	TOTALS		334,050	\$326,510.85	\$293,831.54		

*Private Contract.

†Not completed—cost to date.

SUMMARY OF SANITARY SEWERS

Dist. No.	Street	Date	Total Length of Main	No. Manholes
	Main Sewer	1893	16,915	61
1	Liberty, E. of Main Sewer	1894	2,790	9
2	Washington, E. of Main Sewer	1894	3,162	13
3	Hill St. district E. of Main Sewer ...	1895	681	1
4	Huron, E. of Main Sewer	1895	3,900	15
5	William, E. of Main Sewer	1895	2,799	14
6	Detroit	1897	300	1
7	W. Liberty, to near Seventh	1897	1,804	5
8	E. Catherine, Division to State	1900	631	
9	Ann, Huron, 13th and 14th	1901	1,370	4
10	14th and Volland	1901	1,266	3
11	First, Madison to Jefferson	1903	918	3
12	W. William	1903	1,527	4
13	Beakes, 4th Av., 5th Av., Kingsley ..	1904	4,204	8
14	N. Main, Main Sewer to Catherine ..	1905	1,393	3
15	Cambridge, Washtenaw, Vinewood, Ferdon	1905	1,487	4
16	W. Liberty extension to City Limits ..	1906	1,352	3
17	3rd, William to Jefferson	1905	602	1
18	W. Huron	1906	3,509	8
19	Church	1906	444	1
20	Miller Ave.	1906	2,224	9
21	Spring, Miller to Hiscock	1907	1,252	4
22	W. Washington and 3rd	1907	2,834	8
23	S. Division**	1906	200	
24	Geddes, Hill, and Oswego	1907	1,730	5
25	State St. and Dewey Ave.	1907	3,134	3
26	Broadway and Wall St.	1907	5,682	20
27	Second Ward	1908	11,470	24
28	Belser, Observatory, Volland	1907	2,380	4
29	Spring St. extension	1908	896	3
30	E. Catherine and Clark	1908	1,498	3
31	Fuller and Elizabeth	1907	1,080	2
32	S. Main, Mosley, Ashley	1909	3,679	8
33	Arch, White, McKinley	1909	1,458	3
34	Packard, Granger, Ferdon	1909	10,128	27
35	Second, William to Liberty	1909	321	
36	N. 5th Av. and E. Summit	1910	891	2
37	Cambridge, Washtenaw to Hill	1910	1,200	3
38	Hill, Division to Main	1910	1,320	3

IN THE CITY OF ANN ARBOR

No. Flush tanks	No. Light-holes	8" Tile	10" Tile 9,150-24"	No. of House Con'tions	Length of House Con'tions	F. T. Changed to M'holes	Total Cost
0	0	6,445-15"	1,320-18"	120			\$ 41,252.83
1	4		2,555	82			3,954.44
0	2	235	2,927	97			6,831.08
1	0	681		20			27,912.80
0	6	300	3,600	33			4,303.19
0	4	345	2,454	58			8,454.98
0	0		300	5			12,587.00
0	5	1,804		66	998		1,887.84
1	1	631		22	256		527.43
2		1,370		50	988		2,163.46
1		1,266		35	630		1,541.47
1		613	305	27	508		1,169.51
0		583	344	40	678		2,083.02
7		2,706	1,498	137	2,316		5,024.40
2		1,393		69	1,444		2,322.48
2		1,487		28	707		1,735.64
1		1,352		40	726		1,265.68
1		602		19	328		590.84
1		2,942	567	102	2,066		4,111.52
1		444		22	376		574.76
1		1,737	487	57	987		2,147.27
		688	564	*32			1,070.92
2		2,834		*88			2,369.03
1		200		8	160		250.00
2		1,730		*30			1,530.50
2		2,882	242	*88			2,186.57
2		3,571	2,111	*143			4,989.01
13		3,540	1,930	*337			8,035.98
3		2,380		*39			1,895.50
1		896		*26			632.32
2		1,498		*38			1,148.36
2		1,080		*22			943.60
3		3,108	571	*98			2,229.03
2			1,458	*58			513.49
7		7,030	3,098	*376			6,300.06
1		321		*12			240.69
2		891		*27			741.30
2		1,200		*34			911.39
1		1,320		*40			1,037.00

39	Fuller, Glen to State	1910	1,197	3
40	Ashley, Kingsley to Ann	1910	771	2
41	Felch, Fountain, Hiscock, Chapin, & Cherry	1910	4,070	8
42	N. Main, Summit to A. A. R. R.	1911	651	2
43	4th Av. Beakes to Summit	1911	869	2
44	Depot, 4th Av. to Main	1911	335	
45	White and McKinley	1911	345	1
46	Olivia Av. and Minerva Rd.	1911	733	2
47	E. Ann, Glen to Ingalls	1911	655	1
48	Murray, Washington to Liberty	1912	724	4
49	Olivia, N. of Minerva Rd.	1912	157	
50	Myrtle, Oswego to City Limits	1912	651	1
51	Summit, Main to Spring	1914	1,295	5
52	Hiscock St., Fountain to Miner	1913	372	
53	Crest Av. and W. Washington	1914	1,774	4
54	W. Liberty, to City Limits	1913	464	1
55	Austin Av. and Washtenaw	1914	2,486	9
56	Third Ward	1914	7,186	22
57	Geddes Av., Oswego E'ly 210 ft.	1914	276	
58	W. Huron, to end of pavement	1913	75	
59	Ann St., Clark to Observatory	1913	610	1
60	Brown St., 4th Av. and Philip St.	1914	2,551	7
61	E. Catherine, Detroit, and 4th Ave.	1914	2,622	9
62	E. Catherine, Clark to 100 ft. E.	1914	101	
63	Sixth, Seventh, and Eighth Sts.	1914	3,146	12
64	Third, Fourth, and Fifth Sts.	1914	647	1
65	Packard St.	1914	428	1
66	First St., Catherine to Ann	1914	225	
67	Moore St., Broadway to Pontiac	1914	545	2
68	Seventh, Bath, and Willow Sts.	1915	4,523	21
69	Mosley St., Second to Third	1916	250	
70	West St., Main St. W'ly	1916	552	3
71	Roosevelt, Church to Forest	1916	222	
72	Hamilton, Rose, & Sheehan Add.	1917	10,297	33
	Olivia Ave., Wells St. N'ly	1915	188	
73	Eber White Add.	1916	1,766	10
74	Lincoln St., 4th Ave. to Main	1916	564	2
75	Hill, Onondaga, Geddes, Berkshire ..	1917	1,366	6
76	Washington St., 12th to 14th	1917	646	3
77	John K. Ave. and First St.	1916	995	4
78	Fifth St. S. of Madison	1916	882	3
79	Hiscock St., Summit to Spring	1916	1,080	6
80	Seventh, Liberty to Madison	1917	1,374	6
81	Wells St., Baldwin to Ferdon	1917	368	3
82	Packard and Brooklyn	1917	3,307	11

COMMON COUNCIL—APRIL 15, 1929

461

1		1,197		*19			815.93
1		771		*30			667.77
6	4	3,328	742	*122			3,229.79
1		651		17	230		680.14
1		869		*31			646.55
1		335		*9			204.26
1		345		*18			247.32
1		733		*29			538.53
1		655		*28			532.71
1	1	738		27	350		1,009.62
1	1	166		8	102		301.02
1	1	668		17	370		1,795.69
1	1	1,302		*41			1,158.57
1	1	378		*14			318.41
3	3	1,798		66	1,006	1	2,432.81
1	1	472		24	382	1	1,101.54
2	2	2,494		*78			3,862.29
8	8	6,832	430	*244			7,655.78
1	1	281		6	80	1	574.29
1	1	82		3	12	1	187.06
1	1	614		*18			765.61
3	3	2,576		*93			2,902.70
4	4	2,626		73	1,326		4,863.19
1	1	104		*5			155.14
		696-C. I.					
5	5	2,372-T		88	1,330		4,658.28
		36-C. I.					
3	3	628-T		*31			750.98
		428		*11			271.75
1	1	231		*10			423.80
1	1	546		*16			634.72
6	0	3,735	788	*77			3,593.14
1	1	222		*14		1	250.63
1		504		*24			622.18
1		204		*9			204.92
9		6,014	3,661	*311			16,293.03
1	1	188		*6			150.21
2		1,670		48	1,064		2,663.82
2		524		*20			640.89
2		1,312		*27		1	2,499.17
		12-C. I.					
1	2	340-V. T.	250-15"	*22			862.93
2		923		*36			1,082.34
1		806		*38			874.80
1		1,002		*39			1,251.27
		12 C. I.					
2		1,310-V. T.		*26			1,204.50
1		336		*16			485.85
2		3,073		*117			4,165.25

COMMON COUNCIL—APRIL 15, 1929

3	Eighth St., Huron to Washington	1917	210	
4	Killin's Heights Add.	1917	5,324	14
5	Eber White and Soule Blvd.	1917	1,144	7
6	West Hoover Ave.	1918	447	4
7	Ninth St., Huron S'ly	1918	216	
8	Jackson Ave., Forks to Limits	1919	1,945	7
9	Jones and Mill Sts.	1920	530	2
0	Berkshire Rd. and Orchard St.	1920	880	4
1	E. Hoover Ave.	1920	355	1
2	Edward St.	1920	240	2
3	Seventh St., Washington to Huron	1919	146	1
4	Boulevard Drive	1919	1,017	5
	Dexter Ave.	1919	168	1
5	Pauline Blvd.	1920	216	1
6	Fifth Ave., South of Madison	1920	250	3
7	Day St., Cambridge to Wayne	1920	556	4
8	Soule Blvd., Maxwell to Elder	1921	494	3
9	Elder Blvd., Buchanan to Soule	1921	690	2
0	Lutz Av., Elder to Eberwhite	1921	310	2
1	Pontiac, Moore to City Limits	1921	2,589	10
2	Onondaga, Hill to Dorset	1921	359	2
3	Seventh St., Madison to Davis	1921	1,412	4
4	Day St., Wayne to Berkshire	1921	416	2
5	Morton Ave., Packard to Baldwin	1921	1,068	6
6	Dexter Ave., Pav't W'ly 450 ft.	1921	454	3
7	Woodlawn Av., Packard to Ingalls	1921	921	3
8	Sylvan Ave., Packard to White	1921	700	4
9	Dexter Ave., Extension 300 ft.	1921	300	2
0	Shadford, Packard to Baldwin	1922	794	2
1	Washington Hgts., Ob'v'tory to River	1923	2,216	10
2	Miller Ave., W. Park Sub-Main	1923	813	3
3	John St., Division to 5th Ave.	1923	464	2
4	Vinewood Blvd., Wayne to Limits	1923	490	2
5	Dexter Ave., 9 plus 25 to limits	1923	1,137	5
6	Charlton Ave., Virginia W'ly	1923	420	2
7	Abbott Ave., Virginia W'ly	1923	414	2
8	Krause St., Murray to Third	1923	445	2
9	Henry St., Golden to Packard	1923	2,443	8
†	Wildwood Ave., Dexter N'ly	1923	265	0
	University Relief	1923	15" 569	2
0	Davis, Wilder, Hoover, Fifth	1923	2,128	10
1	Third St., Washington to Huron	1923	248	0
2	Grand View Drive	1923	402	1
3	Medallion St.	1923	325	0
4	Maxwell and Wakefield	1923	550	0
5	Eighth St.	1923	829	5
6	Cedar and Wright	1923	1,328	6
7	Daniel St.	1923	400	1
8	S. Seventh St.	1923	516	1
9	Washtenaw Ave.	1923	735	3
0	Spring St.	1923	1,298	5
1	Berkshire Rd.	1923	313	1
2	S. Main St.	1923	2,722	8
3	Davis Ave.	1923	275	1
4	Fifth St.	1923	300	0
5	Brooks St.	1923	277	2
6	Pauline Blvd.	1924	698	3
7	Jackson Hgts., Add.	1924	2,744	13

COMMON COUNCIL—APRIL 15, 1929

463

1		198		*6			339.01
8		4,932		*196			7,218.53
		1,082		*31			2,035.79
		415		*16			990.66
1		200		*8			309.14
1	0	1,945	0	65	1,126	1	2,401.97
1	0	530	0	*7		0	1,233.00
1	0	880	0	20		0	2,534.09
1	0	355	0	10		0	711.25
0	0	240	0	*5		0	526.37
0	0	146	0	2	2	0	303.79
0	0	1,017	0	1		0	2,215.81
0	0	168	0	2	24	0	101.00
0	0	216	0	8		1	687.71
0	0	250	0	1		0	632.99
0	0	556	0	1		0	1,609.73
1	0	466	0	14		0	1,426.88
0	0	648	0	21		0	1,629.16
0	0	284	0	13		0	890.34
1	0	2,431	0	79		1	6,672.31
0	0	347	0	6		0	957.41
0	0	1,310	0	51		1	3,545.36
0	0	390	0	13		0	989.31
0	0	1,000	0	34		0	2,336.57
0	0	430	0	12		0	1,153.58
1	0	841	0	40		0	1,516.29
1	0	646	0	27		0	1,057.81
0	0	280	0	10		0	770.84
0	0	742	0	26		0	1,557.65
1	0	1,206	1,010	26		0	3,876.70
0	0	439-12"	374	0		0	1,002.51
1	0	432	0	16		0	754.48
0	0	466	0	12		1	875.52
0	0	1,069	0	34			3,950.10
0	0	392	0	14			605.33
0	0	388	0	13			588.73
1	0	411	0	17			908.57
1	0	2,443	0	72		0	14,798.70
1	0						450.00
0	0	0	569-15"	0		0	4,607.69
2	0	2,128	0	56	786	0	5,949.94
1	0	248	0	4	16	0	564.60
1	0	402	0	11	106	0	1,237.94
1	0	325	0	7	96	0	1,020.46
2	0	550	0	16	208	0	1,384.34
1	0	829	0	27	348	0	3,325.75
1	0	1,328	0	29	400	0	3,727.94
1	0	400	0	11	140	0	1,255.06
1	0	516	0	19	270	0	2,155.73
0	0	735	0	12	202	1	2,706.65
0	0	1,298	0	37	0	0	3,103.02
1	0	313	0	8	120	0	1,234.34
3	0	2,722	0	73	728	0	10,147.81
1	0	275	0	8	90	0	1,060.48
1	0	300	0	12	180	1	1,096.44
0	0	277	0	11	160	0	946.37
0	0	698	0	20	0	0	1,818.72
4	0	2,744	0	58	64	0	8,892.54

464		COMMON COUNCIL—APRIL 15, 1929		
138	Devonshire, Melrose, Tuomy	1924	2,686	15
139	Baldwin Ave.	1924	760	4
140	Scottwood, Woodside, etc.	1924	2,504	14
141	Brockman Blvd.	1924	463	2
142	Mt. Vernon	1924	807	3
143	Hoover, Davis, Third	1924	3,160	14
144	Liberty, Washington Sub.	1924	1,613	8
145	Fairview Hgts.	1924	2,441	10
146	Wildwood Ave. Sub. S'ly.	1924	244	3
147	Westwood Hills	1924	6,488	29
	†Ravena Blvd., Huron to Linwood	1924	336	2
	†Wildwood Ave. Sub. N'ly	1924	484	3
	†Gardner Ave. and Westminster Pl.	1924	775	3
148	Berkshire, Vinewood, Day	1925	1,932	6
149	Cedar St.	1925	439	1
150	Morton Ave., Shadford Rd.	1925	1,173	6
151	Plum St.	1925	835	4
152	W. Kingsley St.	1925	191	1
153	Arbor View and Wildwood	1925	10,877	50
154	Amherst Ave.	1925	306	1
155	Pauline Blvd. and Hutchins	1925	1,588	6
156	Maiden Lane	1925	1,158	5
157	Madison and Soule Blvd.	1925	1,476	6
158	Daniel St.	1925	200	1
159	Oak Crest Sub.	1925	5,731	20
161	Ferdon and Brooklyn	1925	1,370	6
160	Traver St.	1925	2,622	13
162	Ridgeway, Harvard, Highland	1925	6,292	35
163	Brockman Blvd.	1925	832	4
164	Brooklyn Ave.	1925	801	2
165	Keech Ave.	1925	233	2
166	Mt. Pleasant Ave.	1925	786	3
167	Pine Ridge	1925	298	3
168	Chubb Rd.	1925	842	3
169	Beechwood Dr.	1926	687	2
170	Charles, Edward, Daniel	1926	1,458	7
171	Miner St., Pearl N'ly	1927	676	3
172	Elder Blvd., Lutz Ave., Madison St.	1927	1,609	7
173	Allen Dr.	1927	652	6
174	Miner St., Felch S'ly	1927	245	1
Pvt.	Miller Ave.	1927	210	1
Pvt.	Baldwin Place	1927	253	2
	Allen Cr. San. By-Pass	1927	314	3
175	Wildt-Sunset-Brooks	1928	3,688	23
176	Longman Lane	1928	776	4
177	Arbor View-Wildwood	1928	922	4
	†Maple Ridge	1928	374	2
	†Ridgeway	1928	460	1
TOTALS			290,955	1,140

*Branches only.

**District 23 never accepted by City. Above data is Engineer's app
Note:—In District No. 50 one 8-inch house connection 28 feet lon

†Private contract.

COMMON COUNCIL—APRIL 15, 1929

465

2	0	2,686	0	49	92	0	9,012.91
1	0	760	0	11	0	0	2,279.75
2	0	2,504	0	41	72	0	11,474.30
1	0	463	0	6	0	0	1,654.19
1	0	807	0	16	0	0	2,477.64
5	0	3,160	0	105	0	0	9,983.60
1	0	748	865-12"	28	0	0	4,008.62
4	0	2,441	0	66	178	0	12,921.99
1	0	244	0	6	0	0	1,099.60
7	0		430-15"				
7	0	2,706	3,352-12"	71	0	0	24,681.25
1	0	336	0	13	0	0	980.00
1	0	484	0	7	0	0	1,650.00
2	0	775	0	21	0	0	1,470.00
3	0	1,932	0	47	0	0	3,199.53
1	0	439	0	12	0	0	822.16
0	0	1,173	0	36	0	0	2,187.20
1	0	835	0	17	0	0	1,298.05
0	0	191	0	8	0	0	337.60
			585-15"				
12	0	9,399	893-12"	269	0	0	18,292.01
1	0	306	0	8	0	0	453.89
2	0	1,588	0	38	0	0	3,334.92
1	0	1,158	0	27	0	0	1,525.68
4	0	1,476	0	26	0	0	2,832.81
0	0	200	0	2	0	0	326.10
8	0	5,731	0	181	0	0	10,509.74
2	0	1,370	0	22	0	0	2,676.44
1	0	2,622	0	65	0	0	4,251.07
3	0	6,292	0	39	0	0	11,962.18
1	0	832	0	12	0	0	1,558.12
1	0	801	0	27	0	0	1,066.62
0	0	233	0	8	0	0	655.44
1	0	786	0	21	0	0	1,339.37
1	0	298	0	9	0	0	766.57
0	0	842	0	18	0	0	1,932.78
1	0	687	0	14	0	0	1,492.79
2	0	1,458	0	32	0	0	2,938.54
0	0	676	0	21	0	1	1,386.85
			352-C. I.				
3	0	1,257-Vit.	0	25	0	0	4,371.72
1	0	652	0	23	0	0	1,671.44
1	0	245	0	4	0	0	795.49
0	0	210	0	3	0	0	310.00
0	0	253	0	6	0	0	635.00
0	0	314	0	0	0	0	984.50
2	0	3,688	0	72	0	0	14,557.60
1	0	776	0	23	0	0	2,176.35
1	0	300	622-12"	28	0	0	3,022.80
0	0	374	0	17	0	0	700.00
1	0	460	0		0	0	825.00
289	71	226,959	56,147	7,579	23,828	16	\$572,987.49

roximate estimate.
g is included in above table.

Annual Report

of the

Street Commissioner

1928

To the Honorable
Board of Public Works,
Ann Arbor, Michigan.

Gentlemen:

We submit herewith a detailed account of the receipts and expenditures of the Street Department of the Board of Public Works for the year 1928.

Pages one to five inclusive give a summary of the monthly reports for the year of 1928. This shows the gross expenditure for labor and supplies.

On pages six to nine inclusive, you will find a statement of the cost of each activity of the department according to the various subdivisions into which the work of the department has been divided. In this classification, you will note that the cost of operating trucks, graders and the city team has been charged to the proper division. Also that construction supplies have been charged to the jobs on which they have been used.

I am pleased to report that although the volume of work done by the Department was more during 1928 than 1927, yet the total cost of operating the department is \$29,-

004.99 less than 1927. This is in part due to some \$8,700.00 being received from the State Highway Department for maintenance of trunk line roads within the City Limits. Deducting this from the \$29,004.99 would still leave the expenditure for 1928 \$21,000 less than for 1927. The cost of cleaning paved streets was \$321.58 more than in 1927 but the cost of operating the City's motor truck pick-up sweeper was \$569.32 less than in 1927 and the cost of flushing was \$890.81 more than in 1927. This is due to the fact that the flusher was operated nine hours a day in 1928 instead of five hours a day as in 1927. From this it can be seen that the extra four hours flushing per days has decreased the cost of sweeping. The total cost of cleaning paved streets for 1928 was \$6,834.93 or \$321.58 more than in 1927. The cost of maintenance of dirt streets was \$4,166.26 less than in 1927. The cost of laying dust in 1928 was approximately \$2,800.00 less than in 1927. This is due in part to the accumulative effect of Calcium Chloride from year to year and to the amount of paving which was done during the season of 1928. It is evident that this item of ex-

pense will decrease from year to year as more streets are gradually paved.

This report is respectfully submitted for your consideration.

GEO. H. SANDENBURGH,
City Engineer.

ALFRED J. PAUL.

Street Commissioner

1. Administration—

	Labor	Material	Total
1. Administration	\$ 3,000.00	\$ 50.95	\$ 3,050.95
1A. Accounts	339.02	.45	339.47
1B. Records	287.10	0.00	287.10
1C. Correspondence	238.54	0.00	238.54
1E. Information to the public	215.34	1.26	216.60
1H. Office supplies	0.00	110.82	110.82
1K. General work of department	0.00	162.54	162.54
	<hr/>	<hr/>	<hr/>
	\$ 4,080.00	\$ 326.02	\$ 4,406.02

2. Cleaning Paved Streets—

2. Cleaning paved streets	\$ 0.00	\$ 2.25	\$ 2.25
2A. Sweeper operator	1,106.70	1.75	1,108.45
2B. Sweeper maintenance & Repair ..	252.70	791.02	1,043.72
2C. Pickup brooms	284.40	149.00	433.40
2D. Gutter brooms	106.40	104.45	210.85
2E. Hauling sweepings	691.98	0.00	691.98
2F. White wings	282.65	27.94	310.59
2G. Spring cleanup of pavements	565.22	0.00	565.22
2H. Picking up and hauling leaves	418.45	9.65	428.10
2I. Cleaning alleys	96.06	0.00	96.06
2J. Waste paper cans	0.00	25.15	25.15
	<hr/>	<hr/>	<hr/>
	\$ 3,804.56	\$ 1,111.21	\$ 4,915.77

3. Flushing Paved Streets—

3A. Flusher operator	\$ 764.40	\$ 0.00	\$ 764.50
3B. Flusher maintenance & repair ..	21.80	589.14	610.94
3C. Water	0.00	210.48	210.48
	<hr/>	<hr/>	<hr/>
	\$ 786.20	\$ 799.62	\$ 1,585.82

4. Street Maintenance—

4. Street maintenance	\$ 0.00	\$ 17.50	\$ 17.50
4A. Graders & drags	3,114.10	198.72	3,312.82
4B. Cinders	975.06	18.25	993.31
4C. Gravel	2,350.45	7,635.10	9,985.55
4D. Cleaning Gutters	2,372.89	0.00	2,372.89
4E. Scarifying & Rolling	95.50	100.65	196.15
4F. Steam roller, Maint. & Rep.	19.40	22.59	41.99
4G. Mowing weeds	667.30	31.00	698.30
4I. Regrading curb & guttered Sts. ...	3,126.03	794.88	3,920.91
4J. Gravelling curb & guttered Sts. ...	421.88	0.00	421.88
4K. General maintenance	524.11	22.20	546.31
4L. Applying tarvia on dirt streets ..	55.64	148.00	203.64

COMMON COUNCIL—APRIL 15, 1929

4M. Guard rail	131.50	223.00	354.50
	<u>\$13,853.86</u>	<u>\$ 9,211.89</u>	<u>\$23,065.75</u>
5 Snow Removal—			
5A. Snow removal from streets	\$ 536.17	\$ 12.55	\$ 548.72
5B. Snow removal from walks	693.37	3.50	696.87
5C. Sanding streets	52.78	0.00	52.78
	<u>\$ 1,282.32</u>	<u>\$ 16.05</u>	<u>\$ 1,298.37</u>
6. New Street Construction—			
6A. Grading	\$ 2,832.63	\$ 1,820.99	\$ 4,653.62
6C. Paving, curb & gutter	134.75	503.93	638.68
6D. Opening streets	0.00	2.34	2.34
	<u>\$ 2,967.38</u>	<u>\$ 2,327.26</u>	<u>\$ 5,294.64</u>
7. Sidewalks—			
7A. Grading for sidewalks	\$ 1,150.76	\$ 200.69	\$ 1,351.45
7B. Construction of Sidewalks	0.00	433.69	433.69
7C. Extension walks	617.80	566.80	1,184.60
	<u>\$ 1,768.56</u>	<u>\$ 1,201.18</u>	<u>\$ 2,969.74</u>
8. Crosswalks—			
8A. New construction	\$ 1,609.89	\$ 622.71	\$ 2,232.60
8B. Repairs to crosswalks	138.75	3.50	142.25
8C. Cleaning crosswalks	1,459.25	0.00	1,459.25
	<u>\$ 3,207.89</u>	<u>\$ 626.21</u>	<u>\$ 3,834.10</u>
9. Storm Sewer—			
9A. New construction	\$ 44.93	\$ 671.54	\$ 716.47
9B. Maint. & Rep. & cleaning inlets ..	799.57	61.81	861.38
9C. Repairing culverts	103.09	195.75	298.84
	<u>\$ 947.59</u>	<u>\$ 929.10</u>	<u>\$ 1,876.69</u>
10. Street Signs—			
10A. New signs	\$ 60.42	\$ 546.96	\$ 607.38
10B. Maintenance & repair	13.40	12.61	26.01
	<u>\$ 73.82</u>	<u>\$ 559.57</u>	<u>\$ 633.39</u>
11. Laying Dust—			
11A. Calcium chloride	\$ 765.70	\$14,796.61	\$15,562.31
12. Pavement Repair—			
12A. Repairing cuts	\$ 3,663.69	\$ 3,700.29	\$ 7,363.98
12B. General repair	412.49	4,645.71	5,058.20
12C. Resurfacing with tarvia	983.15	3,337.43	4,320.94

12D. Curb & gutter maintenance	47.54	163.61	211.15
	<u>\$ 5,107.23</u>	<u>\$11,847.04</u>	<u>\$16,954.27</u>

13. Motor Equipment—

13A. Grader No. 1	\$ 4.20	\$ 463.71	\$ 467.91
13C. Ford Pickup No. 4 .....	.65	258.76	259.41
13D. Transport Truck No. 5	138.60	1,460.68	1,599.28
13E. Transport Truck No. 6	234.10	1,048.92	1,283.02
13F. Transport Truck No. 7	11.45	627.37	638.82
13G. Dodge Truck No. 9	31.40	2,594.43	2,625.83
13H. Ford Tractor	29.40	5.53	34.93
13I. Concrete mixer	7.70	89.27	96.97
13K. Grader No. 3	17.30	1,132.14	1,149.44
13L. Grader No. 4	9.60	983.67	993.27
	<u>\$ 484.40</u>	<u>\$ 8,664.48</u>	<u>\$ 9,148.88</u>

14. Miscellaneous—

14A. Barricades & Red Lights	\$ 11.20	\$ 147.20	\$ 158.40
14B. Small tools & supplies	0.00	250.14	250.14
14C. Disposal of old machinery & junk	27.65	0.00	27.65
	<u>\$ 38.85</u>	<u>\$ 397.34</u>	<u>\$ 436.19</u>

15. City Team—

15A. Feed	\$ 18.04	\$ 312.07	\$ 330.11
15B. Shoeing	0.00	126.30	126.30
15C. Harness	0.00	74.85	74.85
15D. Wagon	0.00	12.50	12.50
15E. General maintenance	0.00	9.15	9.15
	<u>\$ 18.04</u>	<u>\$ 534.87</u>	<u>\$ 552.91</u>

16 Work for Other Departments—

16A. Engineering department	\$ 307.05	\$ 144.20	\$ 451.25
16B. Water department	7.45	0.00	7.45
16C. Park department	9.50	0.00	9.50
16E. Poor department	50.68	0.00	50.68
16F. Municipal garage	2.40	0.00	2.40
16J. Contractors & Public Ser. Corp.	562.17	0.00	562.17
16K. General city work	14.00	0.00	14.00
	<u>\$ 953.25</u>	<u>\$ 144.20</u>	<u>\$ 1,097.45</u>

17. City Yard Maintenance & Repair—

17A. Old yard	\$ 55.46	\$ 60.42	\$ 115.88
17B. New yard	515.86	88.42	604.28
	<u>\$ 571.32</u>	<u>\$ 148.84</u>	<u>\$ 720.16</u>

18. City Hall Maintenance—

18A. Taking ashes from City Hall	.... \$	18.96	\$	0.00	\$	18.96
20. Construction Supplies—						
20. Construction supplies	..... \$	5.20	\$	1,574.75	\$	1,579.95
21 Bridge Maintenance—						
21B. Broadway bridge over M. C. R. R...	\$	17.20	\$	14.86	\$	32.06
21D. Fuller St. bridge over M. C. R. R...		17.20		19.32		36.52
		<hr/>		<hr/>		<hr/>
	\$	34.40	\$	34.18	\$	68.58
Total expenditures	.....	\$40,769.53		\$55,250.42		\$96,019.95

SUMMARY

Total Labor	.....	\$40,769.53
Total Material	.....	55,250.42
		<hr/>
Gross expenditure	.....	\$96,019.95

Itemized Statement of Expenditures

Administration—

Superintendence	..... \$	3,050.95
Accounts	.....	339.47
Records	.....	287.10
Correspondence	.....	238.54
Information to the Public	.....	216.60
Office Supplies	.....	110.82
General Work of Department	.....	162.54
Automobile Maintenance & Repair	.....	259.41
Total Administration	..... \$	4,665.43

Cleaning Paved Streets—

Cleaning Paved Streets	..... \$	2.25
Sweeper Operator	.....	1,108.45
Sweeper Maintenance & Repair	.....	1,043.72
Pickup Brooms	.....	433.40
Gutter Brooms	.....	210.85
Hauling Sweepings	.....	864.47
White Wings	.....	318.78
Spring Cleanup of Pavements	.....	614.50
Picking up & Hauling Leaves	.....	517.60
Cleaning Alleys	.....	102.06
Waste Paper Cans	.....	33.03
Total Sweeping	..... \$	5,249.11
Flusher Operator	.....	764.40

Flusher Maintenance & Repair	.....	610.94
Water	210.48
Total Flushing \$	1,585.82

Total Cleaning Paved Streets \$	6,834.93
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Street Maintenance—

Street Maintenance \$	17.50
Grader & Drags	5,929.18
Cinders	1,287.43
Gravel	.....	11,270.92
Cleaning Gutters	.....	2,586.69
Scarifying & Rolling	.....	196.15
Steam Roller Maintenance & Repair	.....	41.99
Mowing Weeds	.....	698.30
Regrading Curb & Guttered Streets	.....	4,088.90
Gravelling Curb & Guttered Streets	.....	715.28
General Maintenance	.....	652.20
Applying Tarvia on Dirt Streets	.....	217.96
Guard Rail	.....	354.50
Total Street Maintenance \$	28,057.00

Snow Removal—

Snow Removal from Streets \$	653.95
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Snow Removal from
Walks 699.06
Sanding Streets 76.24

Total Snow Removal ..\$ 1,429.25

New Street Construction—

Grading\$ 4,947.56
Paving, Curb & Gutter... 640.58
Opening Streets 2.34

Total New Street Construction\$ 5,590.48

Sidewalks—

Grading for Sidewalks..\$ 1,501.51
Construction of Side-
walks 433.69
Extension Walks 1,555.72

Total Sidewalks\$ 3,490.92

Crosswalks—

New Construction\$ 2,567.92
Repairs to Crosswalks... 142.25
Cleaning Crosswalks 1,459.25

Total Crosswalks\$ 4,169.42

Storm Sewer—

New Construction\$ 736.43
Maintenance & Repair &
Cleaning Inlets 902.40
Repairing Culverts 300.20

Total Storm Sewer ..\$ 1,939.03

Street Signs—

New Signs\$ 612.91
Maintenance & Repair... 26.01

Total Street Signs\$ 638.92

Laying Dust—

Calcium Chloride\$15,780.37

Total Laying Dust ...\$15,780.37

Pavement Repair—

Repairing Cuts\$ 7,418.25
General Repair 6,633.84

Resurfacing with Tarvia 4,532.18
Curb & Gutter Maintenance 211.15

Total Pavement Repair\$18,795.42

Motor Equipment—

New Dodge Truck No. 9..\$ 2,150.00

Total Motor Equipment\$ 2,150.00

Miscellaneous—

Barricales & Red Lights..\$ 158.40
Small Tools & Supplies... 255.53
Disposal of Old Machinery and Junk 31.47

Total Miscellaneous ..\$ 445.40

Work for Other Departments—

Engineering Department \$ 517.37
Water Department 8.00
Park Department 9.50
Poor Department 72.52
Municipal Garage 2.40
Contractors & Public
Service Corp 571.86
General City Work 14.00

Total Work for other
Departments\$ 1,195.65

City Yard Maintenance & Repair.

Old Yard\$ 122.70
New Yard 614.38

Total City Yard Maintenance & Repair ..\$ 737.08

City Hall Maintenance—

Taking Ashes from City
Hall\$ 20.87

Total City Hall Maintenance\$ 20.87

Construction Supplies—

Total Construction Supplies\$ 11.20

Bridge Maintenance—

Broadway Bridge over M. C. R. R.	\$ 32.06
Fuller Street Bridge over M. C. R. R.	36.52
	<hr/>
	\$ 68.58
Total Expenditures	\$96,019.95
4.G Mowing weeds	\$ 32.40

6. New Street Construction—

6A. Grading	\$ 19.10
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7. Sidewalks—

7B. Construction of Sidewalks	\$ 38.66
7C. Extension walks	20.95
	<hr/>
	\$ 59.61

9. Storm Sewer—

9B. Maintenance & Repair & Cleaning Inlets	\$ 12.54
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10. Street Signs—

10A. New signs	\$ 6.50
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11. Laying Dust—

11A. Calcium Chloride ..	\$ 582.30
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12. Pavement Repair—

12A. Repairing Cuts ..	\$ 8,267.92
12B. General Repair	8,900.60
12D. Curb & Gutter maintenance	32.25
	<hr/>
	\$17,200.77

14. Miscellaneous—

14C. Disposal of old Machinery and Junk..	\$ 345.49
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15. City Team—

15D. Wagon	\$ 10.00
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16. Work for Other Departments—

16A. Engineering department	\$ 389.19
16B. Water department..	5.90
16C. Park department...	18.71
16E. Poor department...	80.00
16F. Municipal Garage ..	38.95
16H. Street Lighting	47.99
16I. Police department ..	22.10
16J. Contractors & Public Service Corp..	884.76
16K. General City Work..	6.00
	<hr/>
	\$ 1,493.60

18. City Hall Maintenance—

18A. Taking ashes from City Hall	\$ 6.80
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20. Construction Supplies—

20. Construction supplies..	\$ 263.59
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Summary

Total amount of expenditures	\$96,019.95
Receipts	20,032.70
	<hr/>
Net expenditures	\$75,987.25

CLASSIFICATION OF EXPENDITURES FOR LABOR DURING 1928

	Adminis- tration	Clerical	Labor	Total
A. J. Paul	\$3,000.00			\$ 3,000.00
Edna Spiegelberg		1,080.00		1,080.00
Sam Burke			2,324.00	2,324.00
L. G. Bird			1,935.50	1,935.50
Carl Rehberg			1,724.00	1,724.00
Fred Hanselman			1,584.38	1,584.38

COMMON COUNCIL—APRIL 15, 1929

475

Maintenance & repair .. 30.75
Total operating cost \$ 34.43

Sweeper—

1,443 gallons gas\$ 219.79
 52 quarts oil 9.36
 0 quarts alcohol
 Maintenance & repair 920.23
.....
 \$1,149.38

Miles traveled 2,841
 Miles per gallon gas 1.97
 Miles per quart oil 54.64
 Operating cost per mile .. .4046

Flusher—

2,225 gallons gas\$ 342.12
 171 quarts oil 30.78
 Maintenance & repair 476.46
.....

Total operating cost .. \$ 849.36

Pump No. 1—

27 gallons gas\$ 4.00
 6 quarts oil 1.08
 Maintenance & repair .. 38.38
.....

Total operating cost .. \$ 43.46

Pump No. 2—

31 gallons gas\$ 4.70
 6 quarts oil 1.08
 Maintenance & Repair 10.05
.....

\$ 15.83

Emergency Car No. 3—

245 gallons gas\$ 40.87
 29 quarts oil 5.22
 9 quarts alcohol 1.35
 Maintenance & Repair ... 70.54
 Insurance 23.75
.....

\$ 141.73

Miles traveled 2,895
 Miles per gallon gas 11.90
 Miles per quart oil 99.83
 Operating cost per mile .. .049

Cement Mixer—

66 gallons gas\$ 10.50

3 quarts oil54
 Maintenance & Repair .. 90.21
.....

\$ 101.25

New Dodge-Graham Truck No. 9.

847 gallons gas\$ 133.04
 73 quarts oil 13.14
 0 quarts alcohol
 Maintenance & Repair 80.99
.....

\$ 227.17

Miles traveled 5,930
 Miles per gallon gas 7.00
 Miles per quart oil 81.23
 Operating cost per mile.. .0383
 Initial price of truck 2,150.00

Ejector Station—

32 quarts oil\$ 5.76
 8 quarts alcohol 1.80
 Service 92.50
.....

Total operating cost .. \$ 100.06

Inventory January 1, 1929

Motor Equipment—

1. 3 yd. transport truck ..\$ 400.00
 2. 2 yd. transport trucks 2,300.00
 1. 2 yd. Graham Dodge
 truck 2,000.00
 1. Ford pickup truck 225.00
 1. Elgin sweeper 2,800.00
 1. Street flusher 2,300.00
 1. Wehr grader 150.00
 1. H. P. grader 500.00
 1. 10-20 Austingrader.... 1,650.00
 1. Ford tractor..... 100.00
 1. Springfield steam
 roller 1,000.00
.....

\$13,425.00

Concrete Mixers—

1. 2½ Ft. concrete mixer.\$ 35.00
 1. 5 Ft. concrete mixer.. 100.00
.....

\$ 135.00

Street Maintenance Equipment
& Supplies—

1. Austin oil spreader..\$ 250.00

2. Austin Western grad- ers	150.00
2. Tar wagons	100.00
1. Tar heater	50.00
3. Slip scrapers	15.00
4. Fresno scrapers	40.00
1. 5 Ft. Fresno scraper ..	10.00
2. Knowles scrapers	2.00
2. Calcium chloride spreaders	25.00
2. Road drags	15.00
2. Storage tanks for tar heating	1,000.00
2. Board scrapers	10.00
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	\$ 1,667.00

Snow Removal Equipment—

10 Steel snow plows for sidewalks	\$ 250.00
2. Standard snow plows ..	40.00
2. Wooden plows	5.00
1. High speed snow plow ..	285.00
6. Snow shovels	10.00
1. Doz. snow pushers ..	8.00
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	\$ 598.00

City Team Equipment & Supplies—

1. Team horses	\$ 300.00
1. Set double harness	25.00
2. Halters	1.00
2. Stable blankets	1.00
2. Woolen blankets	10.00
½ ton of hay	7.50
20. Bu. oats	10.00
1. Troy dump wagon	75.00
1. Wagon with wood box ..	30.00
1. Pair of bob sleight ..	10.00
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	\$ 469.50

Sweeper Equipment & Supplies.

1. Broom filler	\$ 40.00
500 Lbs. wire fibre for gutter broom	150.00
800 Lbs. broom fibre ..	100.00
2. Finished brooms for street sweeper	31.25
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	\$ 321.25

Pumps—

1. Rotary gas pump with hose	\$ 100.00
1. Barnes double plunger gas pump with hose ..	150.00
1. Diaphragm hand pump ..	15.00
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	\$ 265.00

Miscellaneous—

1. Hose nozzle	\$ 1.00
4. Stone forks	3.00
10. Picks	10.00
1. Doz. wide shovels ..	5.00
6. Barley forks	6.00
6. Brick hammers	6.00
4. Wheel barrows	6.00
1. Caldron kettle	10.00
1. Caldron kettle	5.00
4. Log chains	10.00
1. R. R. chain	8.00
3. Sledge hammers	3.00
1. Stencil alphabet	1.00
4. Oil cans	3.00
Sewer jacks	20.00
4. Axes	4.00
1. Cross cut saw	3.00
2. 3 Lb. hammers	2.00
1. Hatchet	2.00
1. Bolt cutter	1.00
3. Wedges	1.00
1. Brace & bit	3.00
2. Levels	6.00
5. Scythes	6.00
24. Red lights	24.00
15. Torches	30.00
1. Hedge scythe	2.00
3. Tampers	3.00
1. Hand saw	1.00
1. Scoop shovel	1.00
4. Crow bars	4.00
2. Rain coats	5.00
1. Wagon jack	1.00
1. R. R. jack	3.00
2. Barn forks	2.00
1. Oliver Plow	5.00
1. 64-A Wiard plow	10.00
1. 65-A Wiard plow	10.00
1. Grind stone	10.00
1. 50 Gal. oil can	10.00
1. Stove at city yard ..	2.00
1. Platform scale	200.00
2. Tool boxes on wheels ..	30.00

Otto Blaess	1,466.40	1,466.40
Wm. Keppler	1,455.00	1,455.00
Arthur Raus	1,446.30	1,446.30
Fred Ulrich	1,441.60	1,441.60
James Mason	1,366.30	1,366.30
Otto Schanz	1,348.20	1,348.20
Herman Stoll	1,311.90	1,311.90
Camdem Dempsey	1,267.20	1,267.20
John Weber	1,200.00	1,200.00
Christ Paul	1,083.60	1,083.60
Wm. Wayman	1,000.00	1,000.00
E. Holzapfel	984.60	984.60
Ike Warner	953.00	953.00
John Shanahan	934.80	934.80
Michael Morhardt	903.25	903.25
Theodore Stollsteimer	813.00	813.00
Philip Adam	781.50	781.50
Martin Walsh	774.80	774.80
Adolph Finkbeiner	759.60	759.60
Carl Smith	731.40	731.40
Fred Malke	724.00	724.00
Fred Mack	668.00	668.00
Geo. Menice	655.20	655.20
Carl Seeger	613.00	613.00
Ed. Roehm	599.50	599.50
Christ Pfaus	531.60	531.60
E. Schweickert	503.30	503.30
Samuel Lutz	412.50	412.50
Peter Stone	379.00	379.00
Sam Kalmbach	374.00	374.00
Jake Young	305.00	305.00
Charles Paul	216.00	216.00
Robert Paul	159.60	159.60
Robert Miller	115.50	115.50
W. J. Elsifor	114.00	114.00
Stanley Matthews	109.50	109.50
August Behringer	94.00	94.00
Fred Bierman	88.75	88.75
P. O'Hara	65.00	65.00
A. J. Shaw	52.50	52.50

Forward	\$3,000.00	\$1,080.00	\$36,370.28	\$40,450.28
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	Adminis- tration	Clerical	Labor	Total
Forwarded	\$3,000.00	\$1,080.00	\$36,370.28	\$40,450.28
John Moore			45.25	45.25
Newton Beach			45.00	45.00
Fred Wagner			30.00	30.00
L. Bucholz			27.50	27.50
C. J. Snyder			27.50	27.50
Hilly Hughbanks			26.00	26.00
Geo. Stratos			25.00	25.00
Wm. Stratos			25.00	25.00
Clyde Meabon			22.50	22.50
W. Weathers			16.00	16.00
M. Curtis			10.00	10.00
Weinberg & Kurtz			9.00	9.00

Guy Mullison	6.00	6.00
Robert Stoll	4.50	4.50
	<hr/>	<hr/>
	\$3,000.00	\$40,769.53

Cost of Operation of Motor Equipment

Ford No. 4—

731 gallons gas	\$ 121.64
63 quarts oil	11.34
9 quarts alcohol	1.35
Maintenance & repair....	100.70
Insurance	21.45
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Total operating cost ..	\$ 256.48
Miles traveled	7,000
Miles per gallon gas....	9.58
Miles per quart oil	111.11
Operating cost per mile	.0366

Ford Truck No. 9—

469 gallons gas	\$ 74.32
104 quarts oil	18.72
9 quarts alcohol	1.35
Maintenance & repair....	146.05
Insurance	33.90
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Total operating cost ..	\$ 274.34
Miles traveled	2,908
Miles per gallon gas	6.20
Miles per quart oil	27.96
Operating cost per mile..	.0943

Grader No. 1—

1,634 gallons gas	\$ 247.77
200 quarts oil	25.20
0 quarts alcohol	
Maintenance & repair	210.87
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Total operating cost ..	\$ 483.84

Grader No. 2—

2,073 gallons gas	\$ 317.80
160 quarts oil	28.80
0 quarts alcohol	
Maintenance & repair	810.55
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Total operating cost ..	\$1,157.15

Grader No. 4—

2,295 gallons gas	\$ 352.10
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94 quarts oil	16.92
9 quarts alcohol	1.62
Maintenance & repair....	1,003.14
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Total operating cost....	\$1,373.78

Transport Truck No. 5—

2,259 gallons gas	\$ 352.38
81 quarts oil	14.58
4 quarts alcohol60
Maintenance & repair	983.02
Insurance	95.75
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Total operating cost ..	\$1,446.33
Miles traveled	12,812
Miles per gallons gas ..	5,664
Miles per quart oil	158.17
Operating cost per mile..	.1129

Transport Truck No. 6—

2,248 gallons gas	\$ 353.51
222 quarts oil	41.22
0 quarts alcohol	
Maintenance & repair	743.00
Insurance	95.75
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	\$1,233.48
Miles traveled	9,967
Miles per gallons gas....	4,434
Miles per quart oil	43,524
Operating cost per mile..	.1237

Transport Truck No. 7—

2,299 gallons gas	\$ 360.51
91 quarts oil	16.38
0 quarts alcohol	
Maintenance & Repair	206.38
Insurance	95.75
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	\$ 679.02
Miles traveled	11,268
Miles per gallon gas	4.95
Miles per quart oil	123.82
Operating cost per mile..	.0602

Tractor No. 1—

23 gallons gas	\$ 3.68
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150 Ft. hose	10.00
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	\$ 487.00

Building Material & Supplies—

2,400 Wire cut lug brick..\$	120.00
12,400 Crosswalk Brick (Seconds)	72.00
Lumber 2x4 and planking	25.00
10,000 Old paving brick..	200.00
33 24" Sewer pipe	106.92
4 15" T's	8.08
40 15" Sewer pipe	40.00
3 10" Corrugated pipe	60.00
9 Bbls. Tarvia B.	90.00
6 Bbls. Tarvia X-C ...	60.00
1 Bbl. Creosote	7.50
Sewer pipe	50.00
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	\$ 839.50

Total Inventory	\$18,207.25
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City Attorney made oral report that he had collected \$200.00 from H. Zolz for damages to City Property, that this amount was agreeable to City Forester and that money had been paid City Treasurer, therefore he recommended that bond be cancelled.

Moved by Ald. Lutz, that recommendation of City Attorney be concurred in.

Adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz,

14. Nays, none.

City Attorney, Carl A. Lehman presented a report in the matter of Leslie and Zahn properties, in connection with the proposed market site, which had been referred to him.

Moved by Ald. Lutz, that report be accepted and agreeable to recommendation the Mayor and City Clerk be authorized to draw warrants against market fund and that the matter of rentals and fees be referred to ordinance committee.

Moved by Ald. Fisher that action be deferred until next adjourned regular meeting.

Adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Moved by Ald. Lutz, that Acting City Treasurer be requested to present to council a list of unpaid personal taxes.

Adopted by following vote: Yeas, Ald. Wuerth, Sauer, Graf, Schlenker, Harris, Allmendinger, Bradley, Draper, Kurth, Severance, Townley, Freeman, Fisher, Lutz, 14. Nays, none.

Council adjourned on motion of Ald. Graf.

FRED C. PERRY,
City Clerk.