

CITY OF PORTLAND,

OREGON.



MAYOR'S MESSAGE

AND

MUNICIPAL REPORTS

FOR THE

Fiscal Year Ending December 31, 1887.



PORTLAND, OREGON:

R. H. SCHWAB & BRO., CITY PRINTERS, 5 WASHINGTON STREET.

1888.



CITY OFFICERS—1887-8.

Mayor *John Gates.*
 Auditor and Clerk *W. H. Wood.*
 Treasurer *H. W. Monnastes.*
 Attorney *W. H. Adams.*
 Police Judge *R. M. Dement.*
 Chief of Police *S. B. Parrish.*
 Superintendent of Streets *W. S. Chapman.*
 Surveyor *E. W. Paget.*

COMMON COUNCIL.

President of the Council *C. M. Forbes.*

FIRST WARD.

G. Castendieck. *R. Gerdes.* *J. J. Gallagher.*

SECOND WARD.

S. Farrell. *R. H. Schwab.* *C. M. Forbes.*

THIRD WARD.

Tyler Woodward. *Frank Hacheny.* *Wm. Fliedner.*

STANDING COMMITTEES.

Ways and Means *Fliedner, Schwab, Gerdes.*
 Accounts and Current Expenses *Gerdes, Farrell, Woodward.*
 Fire and Water *Gallagher, Hacheny, Forbes.*
 Streets and Public Property *Forbes, Woodward, Gallagher.*
 Landings and Wharves *Hacheny, Castendieck, Schwab.*
 Health and Police *Castendieck, Fliedner, Farrell.*
 Judiciary *Farrell, Gerdes, Fliedner.*
 Elections *Schwab, Gallagher, Hacheny.*
 Commerce *Woodward, Forbes, Castendieck.*

HEALTH DEPARTMENT.

Board of Health, { *John Gates*, Mayor
 *S. B. Parrish*, Chief of Police
 *G. Castendieck*, Councilman

POLICE DEPARTMENT.

Police Judge *R. M. Dement*
 Chief of Police *S. B. Parrish*
 Capt's of Police *Chas. Gritzmacher, J. F. Farrell, W. H. Andrus*
 Clerk of Police Department *S. P. Lee*

PORTLAND PAID FIRE DEPARTMENT.

Board of Fire Commissioners, { *George L. Story*
 *James Lotan*
 *T. B. Trevett*
 President *George L. Story*
 Secretary *Milton Weidler*
 Chief Engineer *H. Morgan*
 First Assistant *Chas. C. Dobelbower*
 Second Assistant *James Kiernan*
 Superintendent Fire Alarm *A. J. Coffee*

WATER COMMITTEE.

MEMBERS:

HENRY FAILING,	W. S. LADD,	JOHN GATES,
F. C. SMITH,	C. H. LEWIS,	FRANK DEKUM.
S. G. REED,	L. FLEISCHNER,	L. THERKELSEN.
T. M. RICHARDSON.	R. B. KNAPP,	A. H. JOHNSON.
H. W. CORBETT,	J. LOEWENBERG,	W. K. SMITH.

OFFICERS:

HENRY FAILING,	Chairman.
C. H. LEWIS,	Treasurer.
PHILIP C. SCHUYLER,	Clerk.

SUB-COMMITTEE ON WATER WORKS:

HENRY FAILING, T. M. RICHARDSON, L. FLEISCHNER.

SUB-COMMITTEE ON CONSTRUCTION:

W. S. LADD,	J. LOEWENBERG,	T. M. RICHARDSON.
F. C. SMITH,		JOHN GATES.

INDEX.

	PAGES.
MAYOR'S MESSAGE,	5-9
AUDITOR AND CLERK'S REPORT,	10-22
TREASURER'S REPORT,	23-27
STREET SUPERINTENDENT'S REPORT,	28-39
SURVEYOR'S REPORT,	40-42
POLICE JUDGE'S REPORT,	43-44
POLICE COMMISSIONER'S REPORT,	45-46
FIRE COMMISSIONER'S REPORT,	49-60
CHIEF ENGINEER'S REPORT,	61-84
SUPT. F. A. TEL. REPORT,	85-96
WATER COMMITTEE'S REPORT,	97-102

MAYOR'S MESSAGE.

MAYOR'S OFFICE,
PORTLAND, OREGON, January 2, 1888. }

To the Honorable Common Council of the City of Portland:—

GENTLEMEN:—The Charter of the City requires the Mayor to communicate by message to the Common Council, annually, a statement of the condition of this municipal corporation; therefore I herewith present you with a general statement of the affairs of the City, together with a few suggestions for your consideration.

The financial condition of this City, as given by the Auditor and Clerk and the Treasurer, show that the receipts and expenditures for the year ending December 31st, 1887, were as follows:

Total receipts	\$224,076.42
Total expenditures	174,251.64
Total balance in treasury	\$ 49,824.78

FIRE DEPARTMENT.

The estimated expense of the Fire Department for the current year, as given by the Fire Commissioners, is \$68,022.04. The Fire Department seems to have been as well conducted during the past year as any similar department in the United States. There has been a marked improvement in the water supply for fire purposes during the past year, and still further improvements will be completed next summer which will be of great advantage to this department, especially in the western part of the City where the high service is being constructed.

A properly constructed fire-boat, with plenty of apparatus for extinguishing fire, with a sufficient crew to handle the same, would be an important addition to our present efficient Fire Department, and it would be of more importance to the east

side of the river than it would be to Portland. The east side has a longer river front which is comparatively unprotected, while on this side there is the Hydraulic Elevator Co.'s hydrants, and all the fire engines are located near the City front, with an abundant supply of water. A *good* fire-boat is wanted if *any*; one that could move at a lively rate of speed, and of light draught; therefore it seems to me that when a fire-boat is built the expense of the same should be borne equally by both sides of the river. The proper way to arrange that would be to imitate the example of many eastern cities, and consolidate the several cities and suburbs, that are in reality a part of Portland, into one corporation, not only on account of the mutual benefit to be derived from the Fire Department, but there would be the greater population accredited to Portland in the reports of the next census.

Almost every other City is moving in this matter of advertising to the world as large a population as possible. Chicago is taking in all the surrounding country, and Portland ought to extend the City boundary so as to take all the west end of Multnomah county by running a line from Clackamas county due north to the Columbia river, say about six miles east of the Willamette river. The outlying districts would derive as much benefit according to population as the center. I think it would be impracticable for this City to go to an expense of thirty-five or forty thousand dollars for a fire-boat until such time as both sides of the river are in one corporation. This matter should be brought before the next Legislature.

POLICE DEPARTMENT.

The estimated expense of the Police Department for the current year as given by the Police Commissioners is \$50,726.00.

While there is no particular reason for finding fault with the different branches of the City government, I think that part of the Charter which gives Commissioners power to incur an unlimited amount of indebtedness which the Common Council must pay out of a limited treasury, is not as it should be. All

Boards of Commissioners are human, and it is natural that each should endeavor to get their share of the public money, and in their zeal they are liable to ask for more than justly belongs to them. It is no concern of theirs how much is left for the other branches of the City government. The Fire Commissioners are very properly the judges of what constitutes a suitable Fire Department for this City. The Police Commissioners are similarly situated. They each make their estimates, regardless of the other necessary expenses of the City, or the amount of money at the disposal of the Common Council. They *might* place their estimates high enough to take all the receipts of the City, leaving nothing for the payment of the other necessary expenses. It seems to me there should be some sort of equalization.

RIVER IMPROVEMENTS.

There has been considerable talk in regard to repairing the City dredger and appurtenances. It will cost about six thousand dollars to get ready to work to advantage with the City dredger plant. In view of the fact that the City has no right to go out of the Willamette river to dredge, and that there is now as great a depth of water in the Willamette as there is on some of the bars of the Columbia river between here and Astoria, it is not advisable to lay out any money at present on the City dredger. When the General Government improves the Columbia river so there is a sufficient depth of water there, they will probably deepen the channel of the Willamette also. Portland would be greatly benefited by having the few shallow places between here and Astoria deepened so that vessels could come and go with full cargoes at all seasons of the year.

STREET IMPROVEMENTS.

There has been a large amount of street work done during the past year, and the usual amount of money has been drawn from the general fund in spite of the fact that the law requires that the property benefited must pay for the improvement. The Committee on Streets and Public Property should be very careful

about commencing to improve any street until they are sure there are a legal number of the property owners that desire the improvement. The public property belonging to the City should receive considerable care and attention, and be improved according to the means at the disposal of the Common Council. The City park is becoming a favorite place of resort during the warm weather. The park roads should be Macadamized if possible, before another dry season, so as to do away with most of the dust, and reduce the expense of sprinkling. It is expected that the Water Committee will soon extend their pipes into the park so that it can be well irrigated, which will add very much to make the place pleasant and attractive during the summer months.

STREET CLEANING DEPARTMENT.

The Street Cleaning Department managed to keep the streets, which were improved with Belgian blocks or Macadam, well sprinkled and in very good condition during the warm dry weather; but it is impossible for the present force to keep the streets as clean as they should be during the mild wet weather of our winters. The people of Portland should not expect the Macadamized streets to last as long in this climate as they do in northern cities, where streets are protected all winter by a covering of snow and frost, while here they are so wet that the tires of wheels come in direct contact with the rock which is being ground into pulp. This department seems to be in good condition, but the force should be increased whenever the City can afford to do so, especially during the wet weather.

HEALTH.

The completion of the Tanner Creek sewer has abated a nuisance which has been a source of complaint for a long time. It is a first class job in every respect, and of great importance to that part of the City. It has already taken quite a large sum of money out of the general fund and from present appearances will take more.

This City is now quite as healthy as any other, having the same number of people, in the world, and has been remarkably free from contagious diseases during the past year. There have been a few cases of smallpox which were so well taken care of that but few of the people of Portland knew there had been any, until all the patients were discharged; no deaths occurred. A new hospital has been built which will be more comfortable than the old pest house has been, but there has been no one to occupy the new building so far. With smallpox in nearly all the surrounding cities it is hardly possible to prevent some cases from coming here, but with the same care that was taken last summer there is but little danger of the disease spreading to any great extent.

In conclusion, I will say that the Common Council cannot be too careful in passing resolutions and ordinances for opening and improving streets and sewers; as we all know by the past, that notwithstanding the law says that the property benefited shall pay for the improvement, there is sure to be more or less money drawn from the general fund. The work must be paid for by some one—litigation costs money; and while we all are pleased to see good streets to every part of the City, as a general thing we are not overjoyed when called upon to pay our taxes. All the officers connected with the City government should endeavor to work together for the general good of the City, and economize in every department as much as possible, and be sure that the expenses of the City do not exceed the receipts.

Very respectfully submitted,

JOHN GATES,

Mayor.

ANNUAL REPORT
— OF THE —
AUDITOR AND CLERK

— OF THE —
CITY OF PORTLAND,
FOR THE YEAR ENDING DECEMBER 31, 1887.

To the Hon. Common Council of the City of Portland:

GENTLEMEN:—I herewith submit to you my annual report for the year ending December 31, 1887.

Balance on hand, Dec. 31, 1886 \$5,571.58

Received from—

Tax roll 1887	\$23,742.86
Delinquent Tax '86 and '85	71.85
Redemp'n of property Paul Schultze	101.95
“ “ Amanda Bloomfield	70.82
“ “ E. A. King	2,500.00
N. P. Terminal Co. Damage acc't 3d street extension, refunded	8,236.80
Portland Mechanics Fair Association	150.00
S. B. Parrish, costs, delinq't tax roll '87	40.65
“ delinquent st. assessm'ts	17.55
“ sale of impounded cattle	57.00
Business licenses	62,711.28
Dog “	424.50
R.M. Dement, P. Judge, fines & costs	5,358.55

103,483.81

\$109,055.39

Contra.

Transfer Police fund	\$7,300.00
“ Fire Dept. fund	6,500.00
“ Lamp fund	23,115.60
“ St. cleaning and sp'k'g fund	8,900.00
“ Park fund	720.00
“ Willamette river fund	720.00
“ Interest fund	4,612.50
“ Thirteenth st. ex. fund	218.08
“ Chapman st. ex. fund	545.00
“ Hood st. improv't fund	21.12
“ Harrison st. sewer fund	51.35

\$52,703.65

By warrants paid and returned 48,182.93

\$100,886.58

Balance in Fund Dec. 31, 1887 8,168.81

\$109,055.39

AUDITED CLAIMS PAID BY WARRANTS.

Salaries.

Mayor and members of Com. Council	\$6,000.00
Auditor and Clerk	2,400.00
City Surveyor	2,400.00
Superintendent of Streets	2,400.00
City Treasurer	1,200.00
City Attorney	2,000.00
Street Repairer	1,080.00
Deputy Supt. of Streets	3,038.00
Assistant City Surveyor	766.90
Police Judge	1,800.00
Dep. Aud. & Clerk & Clerk hire, \$30.75	1,350.75

\$24,435.65

Streets and Public Property.

Imp. in front of public property	\$808.59
Repairs to streets and bridges	1,710.25
Sewers and nuisances	396.55
Surveyors assistants	3,293.77
Pay of Street Viewers	664.00
Care of public grounds	3,647.20
Culvert H street	185.00
Hospital build'g, infectious diseases	634.00
Street signs	350.40

\$11,689.76

Council Rooms and Offices.

Rent and exp's of Council rooms & offices	\$2,702.05	
Stationery and blanks	1,179.99	
		\$3,882.04

Miscellaneous.

Infectious and contagious diseases . . .	\$1,440.75	
Advertising	1,178.77	
Litigation	777.47	
Copying and addition to tax roll . . .	162.50	
Printing official reports	57.50	
Relief of certain persons	1,737.73	
Sundries (miscellaneous)	378.70	
Elections	81.00	
		\$5,814.42
Warrants outstanding Dec. 31, 1886	4,072.17	
		\$49,894.04
Warrants paid and ret'd to Dec. 31, 1887	\$48,182.93	
Warrants outstanding Dec. 31, 1887	1,711.11	
		\$49,894.04

FIRE DEPARTMENT FUND.

Balance in treasury Dec. 31, 1886	\$352.68	
Received from—		
Tax roll 1887	52,539.02	
General fund	6,500.00	
Sale of property engine house No. 3	17,500.00	
Sale of horses	125.00	
Exempt certificates	40.00	
Costs, Bragg case	20.00	
		\$77,076.70

Contra.

Warrants returned paid to Dec. 31, 1887	\$71,732.56	
Balance in fund Dec. 31, 1887	5,344.14	
		\$77,076.70

Warrants Drawn.

Gen. expenses Fire department 1887	\$70,741.06	
Warrants outstanding Dec. 31, 1886	4,045.28	
		\$74,786.34
Warrants paid and ret'd to Dec. 31, 1887	\$71,732.56	
Warrants outstanding Dec. 31, 1887	3,053.78	
		\$74,786.34

POLICE DEPARTMENT FUND.

Balance on hand Dec. 31, 1886	\$70 62	
Received from tax roll 1887	42,687.95	
“ general fund	7,300.00	
		\$49,987.95

Contra.

Warrants ret'd paid to Dec. 31, 1887	\$48,016.51	
Balance in fund Dec. 31, 1887	2,042.06	
		\$50,058.57

Warrants Drawn.

Pay of police	\$44,141.20	
Expenditure Police building	1,653.76	
Board of prisoners	937.71	
Medical attendance	105.50	
Indigent sick (Good Sam. Hospital)	651.00	
Contingent expenses	332.00	
		\$47,821.17
Warrants outstanding Dec. 31, 1886	367.59	
		\$48,188.76
Warrants paid and ret'd to Dec. 31, 1887	\$48,016.51	
Warrants outstanding to Dec. 31, 1887	172.25	
		\$48,188.76

WILLAMETTE RIVER FUND.

Balance in treasury Dec. 31, 1886	22.45	
Received from general fund	720.00	
		\$742.45

Contra.

Warrants paid and ret'd to Dec. 31, 1887	\$725.50	
Balance in Fund Dec. 31, 1887	16.95	
		\$742.45

Warrants Drawn.

Salary watchman of dredger	\$720.00	
Expense of dredger	4.00	
Warrants outstanding Dec. 31, 1886	24.00	
		\$748.00
Warrants paid and ret'd to Dec. 31, 1887	\$725.50	
Warrants outstanding Dec. 31, 1887	22.50	
		\$748.00

LAMP FUND.

Balance in treasury Dec. 31, 1886	\$4.76	
Received from general fund	23,115.60	
" lamps sold	42.50	
		<u>\$23,162.86</u>

Contra.

Warrants paid and ret'd to Dec. 31, 1887	\$22,952.79	
Balance in treasury Dec. 31, 1887	210.07	
		<u>\$23,162.86</u>

Warrants Drawn.

Lighting streets U. S. E. L. & P. Co.	\$22,777.92	
Erecting and repairing lamps	456.60	
Warrants outstanding Dec. 31, 1886	1,630.27	
		<u>\$24,864.79</u>
Warrants returned paid to Dec. 31, 1887	\$22,952.79	
Warrants outstanding Dec. 31, 1887	1,912.00	
		<u>\$24,864.79</u>

STREET CLEANING AND SPRINKLING FUND.

Balance in treasury Dec. 31, 1886	\$491.07	
Rec'd from tax roll 1887	13,134.75	
" general fund	8,900.00	
" F. D. Matthews, sale of dirt	160.25	
		<u>\$22,686.07</u>

Contra.

Warrants paid and ret'd to Dec. 31, 1887	\$22,210.49	
Balance in treasury Dec. 31, 1887	475.58	
		<u>\$22,686.07</u>

Warrants Drawn.

Gen. exp's St. cleaning and sp'k'g dep't	\$22,258.15	
Warrants outstanding Dec. 31, 1886	164.61	
		<u>\$22,422.76</u>
Warrants paid and ret'd to Dec. 31, 1887	\$22,210.49	
Warrants outstanding Dec. 31, 1887	212.27	
		<u>\$22,422.76</u>

RAILROAD FUND.

Balance in treasury Dec. 31, 1886	\$59.12	
		<u>\$59.12</u>
Balance in treasury Dec. 31, 1887	\$59.12	
		<u>\$59.12</u>

SURPLUS FUND.

Balance in treasury Dec. 31, 1886	\$152.17	
		<u>\$152.17</u>
Balance in treasury Dec. 31, 1887	\$152.17	
		<u>\$152.17</u>

INTEREST FUND.

Balance in treasury Dec. 31, 1886	\$1,152.50	
Received from general fund	4,612.50	
		<u>\$5,765.00</u>

Contra.

Coupons returned paid to Dec. 31, 1887	\$5,765.00	
		<u>\$5,765.00</u>

PARK FUND.

Balance in treasury Dec. 31, 1886	\$140.00	
Received from general fund	720.00	
		<u>\$860.00</u>

Contra.

Warrants paid and ret'd to Dec. 31, 1887	\$759.00	
Balance in treasury Dec. 31, 1887	101.00	
		<u>\$860.00</u>

Warrants Drawn.

Salary of Park keeper	\$774.00	
Warrants outstanding Dec. 31, 1886	60.00	
		<u>\$834.00</u>
Warrants returned paid Dec. 31, 1887	\$759.00	
Warrants outstanding Dec. 31, 1887	75.00	
		<u>\$834.00</u>

STREET IMPROVEMENT FUND.

Balance in treasury Dec. 31, 1886	\$7,723.76	
Received from collections and transfers	37,093.77	
		<u>\$44,817.53</u>

Contra.

Warrants paid and ret'd to Dec. 31, 1887	\$34,928.01	
Balance in treasury Dec. 31, 1887	9,889.52	
		<u>\$44,817.53</u>

STREET EXTENSION FUND.

Balance in treasury Dec. 31, 1886 .	\$17,799.22	
Received from collections and transfers	1,058.08	
		<u>\$18,857.30</u>

Contra.

Warrants paid and ret'd to Dec. 31, 1887	\$12,676.80	
Balance in treasury Dec. 31, 1887 .	6,180.50	
		<u>\$18,857.30</u>

STREET SEWER FUND.

Balance in treasury Dec. 31, 1886 .	\$3,664.82	
Received from collections and transfers	31,497.45	
		<u>\$35,162.27</u>

Contra.

Warrants paid and ret'd to Dec. 31, 1887	\$30,477.41	
Balance in treasury Dec. 31, 1887 .	4,684.86	
		<u>\$35,162.27</u>

FUND INTEREST ON WATER BONDS.

Received from Water Committee . . .	\$12,500.00	
		<u>\$12,500.00</u>

Contra.

Balance in treasury Dec. 31, 1887 . . .	\$12,500.00	
		<u>\$12,500.00</u>

Summary of Balance in Treasury Dec. 31, 1887.

General fund	\$8,168.81
Fire department fund	5,344.14
Police department fund	2,042.06
Willamette river fund	16.95
Lamp fund	210.07
Street cleaning and sprinkling fund . .	475.58
Park fund	101.00
Railroad fund	59.12
Surplus fund	152.17
Street improvement fund	9,889.52
Street extension fund	6,180.50
Street sewer fund	4,684.86
Interest on water bonds fund	12,500.00

Total bal. in treas'y Dec. 31, 1887 \$49,824.78

Summary of Bonded Indebtedness of City.

Bonds due—

May 1, 1891, First Nat. B'k Portland	\$56,500.00
June 1, 1893, " " " "	20,000.00
June 1, 1893, I. Steinhart, San Fran. .	23,500.00
	<u>\$100,000.00</u>

Respectfully submitted,

W. H. WOOD,

Auditor and Clerk.

INVENTORY OF PROPERTY BELONGING TO THE CITY—PUBLIC GROUNDS, Etc.

The Public Levee—Bounded on the west by the eastside lines of blocks No. 112 and 113 (city proper); on the north, by the south line of Jefferson street; on the east by the Willamette River, and on the south by the north line of Clay street, containing 1.85 acres.—Transferred to Portland & Willamette Valley R. R. Co. by act of Legislature—Judgment in favor of City, for care and money expended \$8,751.87 against R. R. Co. unpaid.

Park Blocks—Numbered and designated respectively, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, city proper; and A, B, C, D, E, F, in Couch addition to City of Portland, aggregating 7.45 acres.

The Public Squares—Situate in city proper, and bounded as follows: No. 53—On the north by the south line of Salmon street, on the east by the west line of Third street, on the south by the north line of Main street, and on the west by the east line of Fourth street. No. 54—On the north by the south line of Main street, on the east by the west line of Third street, on the south by the north line of Madison street, on the west by the east line of Fourth street.

Market Square No. 132—Situate in city proper, and bounded as follows: On the north by the south line of Clay street, on the east by the west line of second street, on the south by the north line of Market street, on the west by the east line of Third street, containing 1 acre.

City Park Proper—Bounded and described as follows: On the north by the Barnes county road, on the east by the H. D. Green and Donald Macleay tracts of land, on the south by a continuation of the south boundary line of the Donald Macleay tract of land, on the west by the King donation land claim, containing 40.78 acres.

City Jail and Police Station—Lot 4. Block 30, City, and City Jail building thereon.

PROPERTY IN POSSESSION OF THE CITY BY VIRTUE OF CHIEF OF POLICE SALES.

Lot 6 in block 6, Watson's Addition; purchased November 3, 1883, for improvement of S street.

A triangular piece of land between Washington, B and Lowndale streets, purchased Nov. 7, 1883, for improvement of B street.

Intersection of Fourteenth, Eighteenth, B and Alder streets, purchased Nov. 3, 1883, for improvement of B street.

Lots 7 and 8 in block 83, in Couch Addition, purchased Nov. 3, 1883, for improvement of D street.

Lots 1, 2, 3 and 4 in block 84, Couch Addition, purchased Nov. 3, 1883, for improvement of D street.

Lot 7 in block 75, Couch Addition, purchased Nov. 3, 1883, for improvement of H street.

The undivided third of the west half of lot 2 in block 36, Couch Addition, purchased Dec. 19, 1883, for improvement of F street.

Lot 2 and nine feet of lot 3 in block 256, in Couch Addition, purchased Dec. 19, 1883, for improvement of North Fifteenth street.

Lots 6 and 7 in block 256, Couch Addition, and forty-one feet of lot 3 in block 5, in Watson's Addition, purchased Dec. 19, 1883, for improvement of North Fifteenth street.

Lot 6 in block 8, Watson's Addition, purchased Jan. 16, 1884, for improvement of S street.

A tract, being the east 100 feet of the north 30 feet of block S $\frac{1}{2}$ A, purchased March 26, 1884, for improvement of Tenth street.

Lot 2 in N $\frac{1}{2}$ K, city proper, purchased Feb. 6, 1884, for improvement of Eleventh street.

Lots 1, 4, 5 and 8 in block 149, Couch Addition, purchased May 14, 1884, for improvement of North Fifteenth street.

A tract of land bounded and described as follows: On the south by the north line of block No. 103, in Caruther's Addition to the City of Portland; on the east by the west line of Hood street; on the north by a line parallel with, and 100 feet north of the north line of said block No. 103; and on the west by a line parallel with, and 100 feet west of the west line of Hood street; purchased May 14, 1884, for extension of Hood street.

A tract of land bounded and described as follows: On the south by the north line of block No. 102, in Caruther's Addition to the City of Portland, on the west by the east line of Hood street; on the north by a line parallel with, and 100 feet north of the north line of said block No. 102; and on the east by a line parallel with, and 100 feet east of the east line of Hood street; purchased May 14, 1884, for extension of Hood street.

Lots 3 and 5 in block 325, city proper, purchased Dec. 19, 1883, for improvement of B street.

Lot 3 in block No. 127, purchased May 14, 1884, for improvement of First street.

Lot 5 in block C, purchased June 18, 1884, for improvement of Front and South Front street.

Lots 4 and 5 in block No. 88, city proper, purchased Dec. 4,

1884, for improvement of Stark street.

Lots 1, 2 and 3 in block No. 88, purchased Dec. 4, 1884, for improvement of Stark street.

Lots 1, 2, 3 and 4 in block H, purchased Dec. 4, 1884, for improvement of Hood street.

The east half of lot 2 in block No. 149, Couch Addition, purchased Dec. 4, 1884, for improvement of B and Washington streets.

A tract of land bounded and described as follows: Bounded on the north by the south line of block P; on the south by the north line of a tract of land known as the City Tract; on the west by the east line of Hood street; and on the east by a line 100 feet east of the east line of Hood street.

The north 46 feet of lot 1, block A, Caruther's Addition, purchased Feb. 5, 1885, for improvement of Hood street.

Lot 1, block 75, purchased Feb. 5, 1885, for sewer in G street.

Lots 1, 2, 3 and 4, block 128, Caruther's Addition, purchased Feb. 5, 1885, for extension of South Front street.

Lots 5, 6, 7 and 8, block 45, Caruther's Addition, purchased Feb. 5, 1885, for extension of South Front street.

Lot 8, block 142, City, purchased Feb. 5, 1885, for improvement of Montgomery street.

Lots 1, 2 and 8, block 35, Carter's Addition, purchased Feb. 5, 1885, for improvement of Montgomery street.

Lots 3 and 4, block H, Caruther's Addition, purchased Feb. 5, 1885, for improvement of Hood street.

Lots 1 and 2, block B, Caruther's Addition, purchased Feb. 5, 1885, for improvement of Hood street.

Undivided $\frac{1}{2}$ of E $\frac{1}{2}$ lot 4, block C, subdivision 25, Carter's Addition, purchased Feb. 5, 1885, for improvement of Montgomery street.

Undivided $\frac{1}{2}$ of W $\frac{1}{2}$ lot 3, block C, subdivision 25, Carter's Addition, purchased Feb. 5, 1885, for improvement of Montgomery street.

Undivided $\frac{1}{2}$ of E $\frac{1}{2}$ lot 3, block C, subdivision 25, Carter's Addition, purchased Feb. 25, 1885, for improvement of Montgomery street.

Lots 1 and 4, block 149, Couch Addition, purchased Feb. 5, 1885, for improvement of B and Washington streets.

Lot 3, block 8, Sherlock's Addition, purchased April 2, 1885, for extension of North Twenty-first street.

Lot 2, block 8, Sherlock's Addition, purchased April 2, 1885, for extension of North Twenty-first street.

A tract of land bounded on the south by T street, on the north by U street, on the east by North Twenty-first street and on the west by a line parallel with, and 100 feet west of said North

Twenty-first street, purchased April 2, 1885, for extension of North Twenty-first street, and also for extension of T street.

A tract of land bounded on the south by T street, on the north by U street, on the west by North Twenty-first street and on the east by a line parallel with, and 100 feet west of North Twenty-first street, purchased April 2, 1885, for the extension of North Twenty-first street and also for extension of T street.

N $\frac{1}{2}$ block 293, Couch Addition, purchased April 2, 1885, for extension of T street.

Lot 5, in block opposite block A, Caruther's Addition, purchased April 2, 1885, for improvement of Hood street.

East 100 feet of lot 5, block C, subdivision 26, Carter's Addition, purchased June 11, 1885, for improvement of Montgomery street.

Lot 2, block 5, Caruther's Addition, purchased June 11, 1885, for improvement of Front and South Front streets.

Lots 5 and 6, block, 50, Caruther's Addition, purchased June 11, 1885, for improvement of Front and South Front streets.

Lots 7 and 8, block 50, Caruther's Addition, purchased June 11, 1885, for improvement of Front and South Front streets.

Lot 6, block A, Caruther's Addition, purchased June 11, 1885, for improvement of Front and South Front streets.

Lot 9, block B, Caruther's Addition, purchased June 11, 1885, for improvement of Hood street.

E $\frac{1}{2}$ lot 4, S $\frac{1}{2}$ block I, City, purchased June 25, 1885, for improvement of Tenth street.

Lot 1, block 5, Market street Addition, purchased July 9, 1885, for improvement of Montgomery street.

Lots 5 and 6, block 2, Carter's Addition, purchased July 9, 1885, for improvement of Fifteenth street.

Lot 5, block E, Caruther's Addition, purchased June 18, 1885, for improvement of Front and North Front streets.

DREDGING APPARATUS, ETC.

- 1 Steam Dredger with machinery, tackle and apparel complete.
- 1 Steam Tug, Hermania, with tackle and apparel complete.
- 2 Dump Scows.
- 1 Wood Scow.

INVENTORY OF CITY PROPERTY IN CITY OFFICES.

AUDITOR AND CLERK'S OFFICE.

- | | |
|-------------------------------|--|
| 1 business counter. | 2 punchers. |
| 1 ice water tank and tumbler. | 2 cane bottom chairs with cushions. |
| 1 square ash table. | 1 waste-basket. |
| 1 bid-box, padlock and key. | 1 Seth Thomas calendar clock. |
| 1 spittoon. | 1 plain table with top desk and two inkstands. |
| 1 city seal. | |

- 1 lithographic bird's eye view of City of Victoria, I. T. (framed.)
- map City of Portland 1872.
- map City of Portland 1884.
- map County of Multnomah.
- 1 carpet and oilcloth. (worn.)
- 1 mirror.
- 1 three-jet gas chandelier.
- 1 high desk and ink stand.
- 1 book case.
- 1 map case.

AUDITOR'S OFFICE PROPER.

- 1 Tilton & McFarland safe (old)
- 1 large secretary with box compartments and drawers.
- 1 copying press (damaged).
- 2 cane-bottomed chairs, cushioned.
- 1 step-ladder.
- 1 high desk with glass inkstand.
- 1 desk with cut glass inkstand.
- 2 stools.
- 1 pair shears.
- 2 spittons.
- 1 carpet (worn).
- 1 three-jet gas chandelier.
- 1 waste-basket.
- 2 rotary office chairs.
- 1 small walnut table.
- 1 letter scale.
- 1 coal stove and fixtures.

MAYOR AND AUDITOR'S ROOM.

- 1 three-jet gas chandelier.
- 1 large walnut desk.
- 1 side case with pigeon holes and compartments.
- 1 rotary cane-bottomed chair (walnut).
- 1 easy chair.
- 1 coal stove and fixtures.
- 1 tapestry carpet.
- 1 walnut hat and umbrella rack
- 1 sofa.
- 1 walnut upholstered easy chair
- 1 black walnut center table.

COMMITTEE ROOM.

- 1 committee table.
- 6 committee chairs.
- 3 ordinance books (codified '86)
- 1 coal stove and fixtures.
- 1 three-jet gas chandelier.
- 1 carpet.
- 1 spittoon.
- 1 hat and umbrella rack.
- 1 dressing closet.
- 1 map City of Portland 1882.
- 1 secretary with committee drawers.

COUNCIL CHAMBER.

- 1 coal stove and fixtures.
- 6 lobby benches cushioned.
- 1 lobby railing.
- 1 hat rack.
- 1 tapestry carpet.
- 4 three-jet gas chandeliers.
- 9 Council chairs.
- 1 Council table.
- 1 clerk of Council table with two chairs.
- 6 spittons.
- 1 sergeant-at-arms chair.
- 1 large Hall's safe (new).
- 1 marble top pitcher table with pitcher.
- 1 drop light.
- 1 Mayor's seat and table with gavel and Cushing's Rules of Order and Codified Ordinances of 1886.
- 1 canopy.
- 1 picture of Washington and His Generals.
- 1 reporter's table with gas light, 3 chairs, 3 spittoons, and umbrella rack.
- 9 portfolio books.
- 9 ink stands.
- 9 Codified Ordinances of 1886.
- 71 record boxes.
- 3 ballot boxes.
- 3 black walnut cane seated chairs.

QUARTERLY REPORT

—OF—

H. W. MONNASTES, CITY TREASURER,

—FOR—

Quarter Ending December 31, 1887.

GENERAL FUND.

Sept. 30.	By balance	\$11,986.01	
Oct. 6.	By R. M. Dement, police J. . .	1,497.50	
" 21.	By S. B. Parrish, cows sold . .	16.50	
Nov. 21.	" delinq't tax	288.20	
Dec. 12.	By E. A. King, for deed	2,500.00	
" 12.	By H. Y. Thompson, tax 1886 . .	9.00	
" 12.	By " " tax 1887	8.00	
" 12.	By W. O. Allen tax 1887	5.88	
" 12.	By C. P. Church tax 1886	8.55	
" 12.	By L. M. Dyer tax 1887	1.00	
" 31.	By gen'l business license coll'd .	15,785.11	
" 31.	By dog license collected	424.50	
" 31.	By R. M. Dement, police J. . . .	1,479.45	
			\$34,009.70

Contra.

Oct. 6.	To transfer to St. cleaning and sprinkling fund	\$3,500.00	
Nov. 2.	To transfer St. lamp fund	3,000.00	
" 13.	To transfer to St. cleaning and sprinkling fund	3,000.00	
Dec. 8.	To transfer interest fund	200.00	
" 24.	To transfer to St. cleaning and sprinkling fund	1,500.00	
" 31.	To warrants paid and returned . .	14,640.89	
			\$25,840.89
	Balance		\$8,168.81

STREET LAMP FUND.

Sept. 30.	By balance	\$783.74	
Oct. 6.	By transfer from gen'l fund	3,000.00	
Dec. 5.	By 8 lamps, sold Sumnerville	31.50	
" 7.	By 1 lamp and wire guy rope	4.00	
" 16.	By 1 lamp	3.50	
Oct. 26.	By 1 lamp	3.50	
			<u>\$3,826.24</u>

Contra.

Dec. 31.	To warrants paid and returned	\$3,616.17	
			<u>\$3,616.17</u>
	Balance		<u>\$210.07</u>

INTEREST FUND.

Sept. 30.	By balance	\$2,682.50	
Dec. 8.	By transfer from gen'l fund	200.00	
			<u>\$2,882.50</u>

Contra.

Dec. 31.	To coupons paid and returned	\$2,882.50	
			<u>\$2,882.50</u>

PARK FUND.

Sept. 30.	By balance	\$320.00	
			<u>\$320.00</u>

Contra.

Dec. 31.	To warrants paid and returned	\$219.00	
			<u>\$219.00</u>
	Balance		<u>\$101.00</u>

SURPLUS FUND.

Sept. 30.	By balance	\$152.17	
			<u>\$152.17</u>

RAILROAD FUND.

Sept. 30.	By balance	\$59.12	
			<u>\$59.12</u>

INTEREST ON WATER BONDS.

Dec. 31.	By City water committee	\$12,500.00	
			<u>\$12,500.00</u>

WILLAMETTE RIVER FUND.

Sept. 30.	By balance	\$200.95	
			<u>\$200.95</u>

Contra.

Dec. 31.	To warrants paid and returned	\$184.00	
			<u>\$184.00</u>
	Balance		<u>\$16.95</u>

POLICE FUND.

Sept. 30.	By balance	\$13,448.18	
Nov. 2.	By delinquent tax	535.23	
			<u>\$13,983.41</u>

Contra.

Dec. 31.	To warrants paid and returned	\$11,941.35	
			<u>\$11,941.35</u>
	Balance		<u>\$2,042.06</u>

FIRE DEPARTMENT FUND.

Sept. 30.	By balance	\$24,963.99	
Oct. 6.	By horse sold	100.00	
" 21.	By costs in Bragg suit	45.00	
Nov. 2.	By delinquent tax	658.74	
Dec. 31.	By exempt firemans certificates	40.00	
			<u>\$25,807.73</u>

Contra.

Dec. 31.	To warrants paid and returned	\$20,464.18	
			<u>\$20,464.18</u>
	Balance		<u>\$5,343.55</u>

STREET CLEANING AND SPRINKLING FUND.

Sept. 30.	By balance	\$56.87	
Oct. 6.	By transfer from gen'l fund	3,500.00	
Nov. 2.	By Spicer, by Matthews	1.75	
" 2.	By delinquent tax	164.68	
" 12.	By I. F. Powers	100.00	
" 2.	By transfer from gen'l fund	3,000.00	
" 28.	By Robinson by Matthews	2.00	
Dec. 24.	By transfer from gen'l fund	1,500.00	
			<u>\$8,325.30</u>

Contra.

Dec. 31.	To warrants paid and returned	<u>\$7,849.72</u>	\$7,849.72
	Balance		<u>\$475.58</u>

STREET SEWER FUND.

Sept. 30.	By balance	\$5,243.59	
Dec. 31.	By collections	16,115.46	
			<u>\$21,359.05</u>

Contra.

Dec. 31.	To warrants paid and returned	<u>\$16,674.19</u>	\$16,674.19
	Balance		<u>\$4,684.86</u>

STREET IMPROVEMENT FUND.

Sept. 30.	By balance	\$9,912.61	
Dec. 31.	By collections	17,994.43	
			<u>\$27,907.04</u>

Contra.

Dec. 31.	To warrants paid and returned	<u>\$18,017.52</u>	\$18,017.52
	Balance		<u>\$9,889.52</u>

STREET EXTENSION FUND.

Sept. 30.	By balance	\$6,525.50	
Dec. 31.	By collections	295.00	
			<u>\$6,820.50</u>

Contra.

Dec. 31.	To warrants paid and returned	<u>\$640.00</u>	\$640.00
	Balance		<u>\$6,180.50</u>
	Total balances		<u>\$49,824.19</u>

Respectfully submitted,

H. W. MONNASTES,

City Treasurer.

Portland, Or., Dec. 31, 1887.

REPORT OF THE SUPERINTENDENT OF STREETS.

OFFICE OF THE SUPERINTENDENT OF STREETS, }
 PORTLAND, OR., January 2, 1888. }

*To His Hon. the Mayor, and the Hon., the Common Council of
 the City of Portland:*

GENTLEMEN: In accordance with an established rule of your honorable body, requiring annual reports from all city officers, I respectfully submit for your consideration the following report of the Superintendent of Streets for the year ending December 31, 1887.

The records of the last year fully demonstrate, as must have been observed by yourselves as it has been impressed upon me, that the amount of work of constructing sewers and improving and keeping in repair the streets and public parks during the last twelve months has greatly exceeded that of any previous year, notwithstanding the impossibility of ordering a street improved without the consent of a majority of the property owners who are to pay for it and the absence of anything of the "boom" nature. While referring to the amount of the street improvements and the nature and extent of the principal undertakings of the year, I will not set out in detail the items included in such improvements, as they will be fully displayed in the report of Mr. E. W. Paget, the courteous and efficient City Surveyor, whose particular duty it is, among other numerous responsibilities, to make the estimates and measurements of all street improvements which are paid for by the city authorities.

During the year 1887 the Common Council has enacted fifty ordinances authorizing and directing the construction of sewers and street improvements, against nineteen such ordinances during the preceding season of the same extent, and under those ordinances and in completing work previously begun there were constructed in lineal feet:

	In 1887.	In 1886.
Sidewalks	11,295	8,237.
Crosswalks	4,143	2,396.
Macadam	9,660	5,840.
Bridging	2,231	1,624.
Grading	13,670	3,185.
Sewers	16,956	12,739.

UNDER PERMITS:

Sidewalks	23,102	27,387.
Crosswalks	630	1,491.
Macadam	1,280	3,560.
Bridging	630
Grading	8,940	7,314.
Plank roadway	230	5,409.

IN CONSEQUENCE OF NOTICES:

Sidewalks	18,996	10,476.
Crosswalks	6,314	3,323.

AGGREGATE:

Sidewalks	53,393	46,100.
Crosswalks	11,087	7,215.
Macadam	10,940	9,400.
Bridging	2,861	1,624.
Grading	22,610	10,499.
Sewers	16,956	12,739.

PERMITS AND NOTICES

To large numbers have been issued, the notices calling the attention of property owners to the bad condition of sidewalks and crosswalks, etc., and directing the repair thereof, and the permits authorizing the taking up and occupying of street improvements for building and other purposes. The making out of the notices occupy considerable time, as, after the bad condition of a sidewalk or other improvement is ascertained, the number of the adjacent lot and block and of the owner thereof must be hunted up, and then the work of finding the owner or his agent frequently consumes days; but for all this we have issued and

served a very large number of such notices and accomplished most gratifying results. Further more, I am glad to be able to report that the requirements of such notices are most generally complied with, notwithstanding the opinion of a court, which ought to have been appealed from, that non-compliance with the demands of such notices could not legally involve penal consequences. Therefore, and for the additional reason that the property owner would undoubtedly have to pay damages for any accident in consequence of the dangerous condition of the street improvements in front of his property if he had notice thereof, we have continued to serve such official notices. Even the two men who contested the legality of the matter, saw the necessity of keeping their improvements in good condition and had satisfactorily repaired their sidewalks long before a decision had been reached. In this respect I may add that the improvements made in consequence of notices from this office take the place of others which have through wear or decay become dangerous, and as seven or eight miles of sidewalks and crosswalks have to be thus renewed every year, the matter of adopting a more permanent material for such improvements is pertinently suggested. In fact many property owners have availed themselves of this idea, and consequently we find that 1644 feet of cement sidewalks and 865 feet of stone crosswalks have been voluntarily laid during the past year. The following tabular exhibit shows the number of permits and notices issued and results for each year since 1884:

PERMITS ISSUED :

	1887.	1886.	1885.
To dig street for Gas connections . .	49 .	28 .	26 .
“ “ “ “ Sewer “ . .	153 .	173 .	102 .
“ “ “ “ Water “ . .	211 .	190 .	154 .
“ use “ “ moving buildings .	23 .	20 .	7 .
“ “ “ “ building purposes .	256 .	120 .	122 .
“ improve the street by grading, etc.	278 .	200 .	233 .

NOTICES ISSUED :

To trim trees	97 .	36 .
-------------------------	------	------

	1887.	1886.	1885.
To refill holes in street	49 .		
“ repair sidewalks and crosswalks .	1,212 .	893 .	405 .

WORK DONE UNDER NOTICES :

Number of feet of sidewalk laid . .	18,996 .	10,476 .	5,746 .
“ “ “ “ crosswalk “ . .	5,845 .	3,328 .	
“ “ “ “ stone “ “ . .	469 .		

THE TANNER CREEK SEWER.

From the intersection of N. Fourteenth and B streets northeasterly to the Willamette river, for carrying the water of the stream from which it is named and the storm water and sewage of a large district in the middle northwestern part of the City, which has been under consideration for several years, was finally ordered by an ordinance passed at your meeting of the 4th of May, 1887, and the work was contracted and the whole improvement completed in a most satisfactory manner before the winter rains began. This improvement has been looked upon as the most important, and generally as the most difficult which the City has undertaken; but I consider that, while its importance is great, considering the benefits to adjacent and surrounding property, difficulties of construction and importance in results were not so great in proportion to its cost, as were those of smaller sewers, constructed of terra cotta or cement. In fact, the smaller sewer constructed without creating any particular notoriety in the last two years have cost \$32,419.26 as against \$36,067.74, the total cost of the Tanner Creek sewer. If to the above \$32,419.26 we add \$15,555.65, the cost of the uncompleted terra cotta and cement sewers now under contract, the completion of which is delayed on account of inclement weather, we find the aggregate of the sums contracted and expended for the terra cotta and cement sewers during the past two years to be \$47,974.91, or nearly \$12,000 more than the cost of the Tanner Creek sewer.

The last named sewer has so far justified the most favorable expectations of its efficiency and sufficiency. The rain storm in the early part of last month, though not as great as we may

expect, was quite severe, and yet it did not tax the Tanner Creek sewer to more than a quarter or a third of its capacity.

I may add that the cost of all sewers constructed the past year amounted to \$52,248.97. This does not include any of the cost of connecting houses and other premises with the street sewers.

SMALLER SEWERS

Most of which are constructed of terra cotta pipe, have been constructed in every street between the Caruthers claim and G street, including the latter, and contracts have been let for the construction of similar sewers in Lincoln, Grant, Sherman and Hood streets. In the City proper, these sewers generally extend back to Twelfth street or the divide between the river and Tanner Creek gulch, while those further north reach back to North Eighteenth or North Twentieth street; those west of Tanner Creek sewer, emptying into that conduit, and those to the eastward emptying into the river. Thus it will be seen that the main part of the City is quite thoroughly sewered.

ANOTHER MAIN SEWER

For draining and sewerage that part of the City west of North Twentieth street and north of B street, which would include carrying away the water of Johnson's creek and the side-hills adjacent thereto, has been under consideration and should be completed before another winter transpires. Already the City has been at considerable expense in constructing temporary culverts, gutters and trenches in vain efforts to prevent the flooding of streets in Watson's addition, but the construction of anything less than a permanent and capacious sewer or drain for carrying away the storm water which falls on the extensive flats and side-hills, amounting to over 300 acres west and northwest of Good Samaritan Hospital, will be scarcely better than money thrown away.

THE CITY PARK

In the western part of the City has been greatly improved during the past year, by construction of a road on a regular

grade of five feet to the hundred from Jefferson street through the southern part of the park to the former road at the summit of the middle ground and by thoroughly cleaning a portion of the high ground in the northern part of the park. In addition to the above the park-keeper maintained a small but beautiful flower bed on what was formerly known as the croquet ground, and some work has been exerted in efforts to preserve the banks along the old roads. A force pump was added to the well, so that water could be raised to higher parts of the park, but its use is very limited. However, in this respect the prospect is promising for ample water for all purposes on the City Park, for after several conferences Mr. Isaac Smith, Engineer of the Water Committee consented to recommend the removal of the small pump lately used at Sixth and Lincoln streets to a point in the City park near the level to which water will be raised by the "high services" system to be put in operation in the early summer, and thence a few hundred feet of pipe will carry water to all parts of the park, and a few dollars *per diem* expense will enable the City to supply water for any fountains which might be erected in the park and for irrigation and other much needed objects. During the past year the expense of beautifying, improving and maintaining the City Park has been \$4,325.36, as follows:

New Road	\$2,213 88.
Salary of Park-keeper	774 00.
Pay of Laborers	1,175 00.
Feed of bear, deer, seal, etc.,	57 58.
Lumber, pump any other material	104 90.
Total	\$4,325 36.

Among other attractions to the Park are an Alaskan bear, a seal and four deer, the expenses of maintaining which is not considerable. At your last meeting, the purchase of material for a propagating house was authorized and the structure will soon be completed, enabling the Park-keeper to make an elegant display of flowers and shrubs during the ensuing summer. Another

needed improvement is a new house for the park-keeper, who now occupies a "tumble-down" shanty which was erected at the time the City first acquired title to the ground. And I should recommend that the new house should be placed in a more retired position and that the high front ground occupied by the old house and its surroundings should be given up for flower beds, and a public observatory, as the view of Portland and its environs from that point is most magnificent. Other improvements would be the construction of a short carriage road from the old croquet ground to the high knoll above referred to and the macadamizing of the roads already constructed, and also in clearing and seeding with grass other portions of the grounds. But I believe that the grubbing and clearing of the ground should be done by contract under the direction of the Park-keeper, for the ground so cleared during the present year has not reached reasonable expectations. I should also recommend that if the proposed Johnson Creek sewer is built, it shall be extended to a point beyond the west end of the stone wall at the old entrance, so that the first short turn in the Park road could be avoided by a connection with the county road.

STREET LIGHTS

Have been greatly improved during the past year by changing the 536 oil lamps to so-called 16-candle-power electric lamps, and by retaining the 25 arc lights on First and Third streets instead of the proposed 44 electric lamps of 32 candle power each. This last change made an additional expense of \$300 per month and I thought and still think that it ought not to have been made until the original contract had been put into execution and given a fair test. I am of the opinion that the change from oil lamps to electric lights has been a great benefit and I opine that no one will ever advocate a return to the old street lights; and yet caudor compels me to say that many complaints are made that the arc lamps do not give nearly so much light as they did when first put into use in this City. Three arc lights and eighty-four small lights have recently been established at a monthly expense

of \$20 each for the former and \$2.05 each for the latter; so that the City is now using 25 arc lights and 620 of the 16-candle power lights at a monthly expense of \$1,917.17. As to the old oil lamps now stored in No. 6 engine house, I am of the opinion that they ought to be sold, while they are in good condition, for I am convinced that there can be no contest between oil and electricity for street lighting purposes; and other electric lighting plants and gas companies will make sufficient competition so that the City will have the benefit of reasonable prices. Before the council had decided not to sell more of the old lamps and while the matter was in the hands of the Street Committee, 42 lamps were sold, those bringing only \$2.50 each being without basins, as follows:

To John Barrett, 24 lamps @ \$2.50	\$60.00.
" City of Summerville, 8 lamps @ \$3.50	28.00.
" " " " packing lamps,	3.50.
" Willamette Iron Bridge Co., 8 " @ \$3.50	28.00.
" Portland parties, 2 lamps @ \$3.50	7.00.
Total	\$126.50.

The above amount \$126.50 has been paid into the City Treasury. About 500 of the old lamps are now stored as above stated but several different persons have access to them, so that I cannot vouch for their security from breakage, etc.

THE PARK BLOCKS

In the central part of the City have not received much attention save to trim the trees thereon and to remove the fence from those in Couch's addition. The attempt to bring some of them up to grade with street cleanings, does not promise well; and yet there is no apparant reason why such filling should not be good for the purpose, if the quantity required could be delivered promptly. I believe that the City ought to be able to employ one or more gardeners to construct walks and flower beds in, and otherwise beautify these park blocks.

STREET SIGNS

To the number of 664 have been placed on electric posts and poles, giving the names of both streets at nearly all crossings on important thoroughfares. These signs have cost \$338.40 and have justified all expectations as to their practicability and usefulness.

THE STREET CAR COMPANIES

Have generally complied with the regulations suggested last summer for improving the bed of their tracks at street crossings and at other places where more than one horse is used for drawing a car. The railroad company also repaired the road bed on Fourth street at an expense of about \$1,800. The benefits of these repairs and improvements have been generally commended. The amount of street railroad track (12.7 miles) remains the same as reported by my worthy predecessor, Mr. F. E. Vaughn; although the Portland Heights cable car company has expended a considerable sum in constructing a trestle on Fifteenth street and has on the ground a great lot of iron rails and other costly materials.

THE COUNTY ROADS

Within the City limits have quite generally received prompt and efficient care from the county authorities, with the exception of that of the old Springville road between the Guild claim and the north end of North Sixteenth street, which, for some explainable reason they have refused to repair. And this is in face of the fact that other portions of the same road under the same circumstances have been thoroughly repaired, and even the abandoned portion of the old Cornell road between B and J streets has been resurrected and repaired at great expense; but there was not the hundredth part of the public need for the repair on this part of the Cornell road as there then was for the repair of the old Springville road along the river bank. In truth the bridges on the latter are so far decayed that lives and property are imperiled every time a team crosses any of them.

STREET MONUMENTS

By which the lines and corners of lots, blocks and streets throughout the City have not been extended to new portions of the City, and the consequence is that improvements are being made at a great distance from the base of surveys, which multiplies the chance for error and requires much more time and expense to make accurate surveys than would be required if street monuments were within convenient reach of all parts of the City. I would therefore recommend that provisions be made for additional assistance for the City Surveyor so that he can have this matter properly attended to by testing and correcting existing monuments and by establishing new ones at accessible and convenient points.

THE ACCEPTANCE OF STREET WORK

According to the plan now established by ordinance, is hedged round with many provisions for the protection and convenience of property owners, prominent among which is the requirement that after work has been certified to by the City Surveyor and Superintendent of Streets and approved by the Committee on Streets and Public Property, the contractor shall, ten days before his claim for pay for such work is presented to the Common Council, file with the Auditor and Clerk a notice of the completion of such work. This notice is intended for the benefit of the property owner, so that he would have an opportunity to object if the work did not suit him. Such notice to be of practical effect should be published in the official newspapers, as is done in other cities.

MAPS AND PLANS

For street improvements are required to be made in the office of the Superintendent of Streets, but this office has never been supplied as it ought to have been with draughting instruments; and the accompanying list of City property in my charge would scarcely indicate that we ever used such things.

The use of borrowed tools cannot be longer relied upon, and I would ask that this office be supplied with a full set of such instruments, the cost of which would not exceed \$150.00.

With a heartfelt appreciation of all the confidence and courtesies which have been extended to me, and an earnest desire that you will never have any cause to regret my official or personal association with you, I have the honor to be, most respectfully,

Your obedient servant,

W. S. CHAPMAN,

Superintendent of Streets.

PROPERTY IN CHARGE OF SUPT. OF STREETS.

- | | |
|-----------------------------------|------------------------|
| 1 Office table. | 1 Eyelet punch. |
| 1 Table. | 1 Engineering book. |
| 2 Revolving chairs. | 2 Iron paper weights. |
| 3 Upholstered Chairs. | 2 Glass paper weights. |
| 2 Gas chandeliers. | 1 Pair of scissors. |
| 1 Gas drop light stand. | 1 Small flat rule. |
| 2 Stoves, (one in bad condition.) | 1 Small T square. |
| 1 Desk, plain. | 2 Steel erasers. |
| 1 Drawing board and trusses. | 10 Small paper files. |
| 2 Cane seat arm chairs. | 2 Waste baskets. |
| 1 Umbrella stand. | 175 Maps and plans. |
| 8 Spittoons. | 1 Roll tracing cloth. |
| 4 Ink stands. | 1 Box for maps. |

LIST OF TOOLS IN CITY PARK.

- | | |
|-------------------------------------|------------------------------|
| 2 Wheelbarrows, (one in bad order.) | 4 Sash for hot beds. |
| 6 Grubbing hoes. | 1 Auger in bad order. |
| 4 Shovels, (one bad.) | 2 Picks, (one in bad order.) |
| 5 Axes. | 5 Feet of hose. |
| 1 Cross-cut saw. | 1 Pike pole and hook. |
| 1 Hand saw. | 1 Potato hook. |
| 2 Brush scythes. | 1 Grindstone. |
| 1 Sickle. | 2 Padlocks. |
| 1 Fork. | |
| 1 Spade. | |
| 2 Rakes. | 4 Deer, 1 Bear, 1 Seal. |

LIST OF TOOLS IN CHARGE OF STREET REPAIRER.

- | | |
|--|-------------------------------|
| 1 Cross-cut saw. | 4 Hoes. |
| 1 Pruning saw. | 5 Shovels. |
| 1 Axe. | 1 Handsaw. |
| 1 Hatchet. | 1 Wagon jack. |
| 1 Iron square. | 1 Adze. |
| 1 Iron roller. | 1 Rope 50 $\frac{3}{4}$ feet. |
| 1 $\frac{1}{2}$ Kegs 7-inch spike nails. | 1 Spade. |
| 1 $\frac{1}{2}$ Kegs 30 penny nails. | 1 Rake. |
| 1 Spiking hammer. | 1 Pike pole. |
| 2 Picks. | 1 Nail Drawer. |
| 1 2-inch auger. | 1 Fork. |
| 2 Crowbars. | |

INVENTORY OF CITY PROPERTY

IN USE BY THE

STREET CLEANING AND SPRINKLING DEPARTMENT.

- | | |
|-------------------------|------------------------|
| 19 Horses. | 11 Housings. |
| 6 Water wagons. | 3 Iron buckets. |
| 11 Dump carts. | 6 Spanners. |
| 11 Sets single harness. | 5 Water keys. |
| 7 Sets double harness. | 1 Axe. |
| 1 Wheel-barrow. | 6 Extra horse collars. |
| 1 Office stove. | 1 Block and tackle. |
| 2 Lengths garden hose. | 1 Clock. |
| 15 Shovels. | 1 Iron jack screw. |
| 15 Street brooms. | 1 Wooden jack. |
| 17 Hoes. | |

CITY SURVEYOR'S REPORT.

CITY SURVEYOR'S OFFICE, }
PORTLAND, OR., January 4th, 1888. }

To the Hon. the Common Council of the City of Portland:

GENTLEMEN:—I have the honor to submit the following annual report for the year ending Dec. 31st, 1887, containing tabulated statements of the amounts of the various kinds of street work estimated and finished by order of your Honorable body during this period.

The most notable feature of the year's work is the large increase in the number of sewers laid of which, for an experiment, I think cement pipe has a large percentage. With but few exceptions the work has been well and satisfactorily done. The cost of sewers estimated during the year 1887 will aggregate one hundred thousand dollars, and represents many times that amount in beneficial results to the general health and reputation of the City.

Street improvement, which has been confined in a large degree to the outlying districts, has increased wonderfully since the opening of the season and the small staff of men at my command have been hardly able to meet the demands. The value of street work for the year 1887, will equal or exceed that of any year in the history of the City.

I would most respectfully call the attention of your Honorable body to the demoralized condition of the monuments governing surveys in the City. This is a most serious matter and timely action will prevent a great deal of litigation and confusion in the future.

I would suggest that the City Surveyor be empowered to employ a competent and reliable assistant with the necessary

helpers for a limited time, whose sole duty would be to correct existing and to establish new monuments, which work with the small force now available he is unable to do.

The City boundary which was surveyed a year ago, should be more definitely and more permanently marked with stone monuments, as considerable doubt and confusion is created in levying taxes, by the uncertainty of the location of the dividing line.

During the progress of the street work a great deal of field work, surveying, etc., was performed, and owing to the scanty equipment of instruments owned by the City, I would have been under the necessity of either hiring or buying another set at my own expense; but through the courtesy of my predecessor his instruments have remained in my service and have saved me much embarrassment and expense. These instruments are in good condition and they or others should be bought for the City's use.

I desire to thank the members of the Common Council and City officers for courtesies shown and hope for a continuance of the same.

The appended statement shows in tabular form the amounts of work estimated and work done under ordinance and the aggregate of work done under permits.

Respectfully submitted,

E. W. PAGET,
City Surveyor.

INVENTORY OF PROPERTY

-ix-

CITY SURVEYOR'S OFFICE.

ROOM 5.

4 Chairs.	1 Iron match safe.
1 Oil cloth.	1 Pigeon hole.
1 Double gas fixture.	1 Map index.
1 Coal stove and fixtures.	1 Profile index.
1 Table.	244 Maps.
1 Cloth brush.	336 Profiles.
1 Ruling pen.	1 Cuspidor.
1 Scrap book.	1 Transit box.
1 China cuspidor.	1 Level box.
1 Y level.	2 Desks.
1 Transit.	1 Box water colors.
1 Silk cover for transit.	1 Plain rule.
1 Gossamer cover for level.	2 Wooden chairs.
1 Pick.	1 Oil cloth.
1 Shovel.	1 Double arm gas fixture.
2 Axes.	4 Plumbats.
2 Wooden flags.	2 Light chains.
1 Iron flag.	1 Heavy chain.
2 Ink erasers.	1 Order book.
1 Iron match safe.	1 Paper weight.
1 Permit book.	2 Paper cutters.
5 Record books.	Cross section books.
5 Index books.	Paper, ink, pencils, pens.
Ink, paper, pencils, pens.	

ROOM 7.

	1 Coal stove and fixtures.
	2 Large draughting boards.
	1 Waste basket.
	1 Haswell (engineering book)
	1 Carpet.
	4 Chairs.
	1 Map of City.
	1 Ruling pen.
	1 Secretary safe.
	1 Plain desk.
	1 China cuspidor.
	3 Draughting boards.
2 Draughting board supporters.	
1 T square.	
2 Straight edges.	
1 Arm rest.	
1 Pair dividers.	
1 India ink grinder.	
1 Plain rule.	
1 Ruling pen.	
1 Large wooden scales.	
2 Small wooden scales.	

STREET WORK ESTIMATED IN 1887.

NAME OF STREET.	EXTENT OF IMPROVEMENT.	Date of Estimate.	No. of Ordinance.	CUBIC YARDS.					LINEAL FEET.																			
				Excavation and Refilling.	Rock Excavation.	Earth Excavation.	Embankment.	Macadam.	SIDEWALK.			CROSSWALK.		GUTTER.		Plank Road.	1/2 Bridge.	BOX CULVERT.										
									New.	Relay.	Curb.	New.	Relay.	Box.	Open.			6 x 8 Feet.	8 x 8 Feet.	6 x 6 Feet.	8 x 6 Feet.	12 x 16 Inches.	12 x 20 Inches.					
Corbett.	From the center line of Grover to the west line of Hood St.	Mar. 3.	4994			5433				788.0	58		150	112	* 72	90	1121.0	1144										
Williams.	From the east line of S. Front to the east line of S. Water Sts.	Mar. 11	5043			677	158			472.0			144			36												
Park Road.	From Jefferson Street to the City Park	Mar. 18	Res't'on	850		6918	6818																					
S. Water.	From the north line of Mead to the south line of Williams Sts.	May 26	5083			1332				325.0							400.0											
Lincoln.	From the east line of S. Front to the center line of Hood Sts.	June 8.	5091			1682	5			515.5							527.8											
F.	From the west line of N. 19th to the east line of N. 21st Sts.	June 8.	5092			90	1426			820.0			36			132												
Yanhill.	From the west line of 4th to the center line of 9th Sts.	June 8.	5093			34	15	748.2		162.0	60	552																
H.	From the west line of N. 20th to the east line of N. 21st Sts.	June 28	5097			136	2210	460.0		820.0																		
N. Sixteenth.	From the center of L to the center of N. Front Sts.	June 30	5090			106	98			450.0	39	36					126	300	1710.0									
Harrison.	From the west line of Front to the west line of Tenth Sts.	July 14	5116			2153	142	2756.0		788.0		162	670															
Salmon.	From the west line of Front to the east line of Third Sts.	July 14	5123			244		439.0		475.0							521.1											
S. First.	From 100 ft. S. of Woods to the center line of Lane Sts.	July 15	5120			8366	4105			2464.0		831			324													
Twelfth.	From the south line of B Street to the north line of Montgomery St.	Aug. 10	5151			1651	1780	4527.4		1377.6	163	1221	111															
N. 21st.	From the north line of J Street to the Springville County Road	Aug. 11	5147			10855	1944			5690.0	24	2052					8016.0											
G.	From the west line of N. 19th to the east line of N. 20th Sts.	Aug. 11	5149			273	7	371.6		456.0																		
Spring.	From the east line of 15th west to the City Boundary	Aug. 12	5140			6712	7765	970.0																				
N. 16th.	From the center line of V Street to the center line of N. Front St.	Sept. 1.	5090			50	10830			636.0		112																
N. 21st.	From the north line of J Street to the Springville County Road	Sept. 1.	5147													1152												
Gibbs.	From the east line of S. First to the west line of Corbett Sts.	Sept. 1.	5172			3324	8			1296.0		288				144												
Plaza Block.	Between Salmon and Madison and 3rd and 4th Sts.	Sept. 15	5144				1014																					
Water.	From the center line of Harrison to the center line of Hall Sts.	Sept. 15	5173			199	39	268.0				108																
Fifteenth.	From the north line of Jackson to the south line of Elizabeth Sts.	Oct. 14	5194			10009	8714			2736.0							833.0	124										
Chapman.	From the north line of Jefferson to the north line of Taylor Sts.	Oct. 14	5225			5021	4522			1368.6		324			144	1464.6												
Spring.	Between Seventeenth and Eighteenth Streets	Oct. 28	5247	50																								
Gaines.	From 20 ft. west of Hood to 30 ft. east of Hood St.	Oct. 28	5248			10																						
N. 11th.	From the north line of B Street to the west line of N. Front St.	Nov. 8.	5274			1602	5302	3301.0		5447.0	212	1850			216													
West Park.	From the north line of Harrison to the north line of Hall Sts.	Nov. 11	5281			147		200.0		200.0	150																	
Sheridan.	From the west line of Hood Street to the Willamette River	Dec. 2.	5273	722		1720	1700																					
Market.	From Eleventh to Twelfth Streets	Dec. 2.	5307			175	75	200.0																				
3d and N. 3d.	From the north line of Washington to the north line of H Sts.	Dec. 29	5325			462	990			686.0		700	263	508		1976.0												
Sheridan.	From the west line of S. Front to the Willamette River	Dec. 29	5313	1243		1848	1989																					
Total						2015	850	71229	61651	14236.2	28172.7	294	412	8575	1156	2238	11529.4											

* 72 Relay.

† 126 New cov. Plank. 74 Relay cov. Plank. 300 New Stringer.

‡ 508 New Steam.

STREET WORK DONE IN 1887.

NAME OF STREET.	EXTENT OF IMPROVEMENT.	Date of Estimate.	No. of Ordinance.	CUBIC YARDS.					LINEAL FEET.																	
				Excavation and Refilling.	Rock Excavation.	Earth Excavation.	Embankment.	Macadam.	SIDEWALK.			CROSSWALK.		GUTTER.		Plank Road.	½ Bridge.	BOX CULVERT.								
									New.	Relay.	Curb.	New.	Relay.	Box.	Open.			5 x 8 Feet.	5 x 6 Feet.	5 x 5 Feet.	3 x 8 Feet.	12 x 15 Inches.	12 x 20 Inches.			
Corbett	From the center line of Grover to the west line of Hood St	Mar. 3.	4994			5488				788.0	58		150	112	72	1121.0	1144									
Williams	From the east line of S. Front to the east line of S. Water Sts	Mar. 11	5043			677	158			472.0			144													
Park Road.	From Jefferson Street to the City Park	Mar. 18	Res		850	6918	6818															50				
S. Water	From the north line of Mead to the south line of Williams Sts	May 26	5083			1332				325.0						400.0										
Lincoln	From the east line of S. Front to the center line of Hood Sts	June 8.	5091			1682	5			515.5						327.8										
F	From the west line of N. 19th to the east line of N. 21st Sts	June 8.	5092			90	1426			820.0		36		131												
Yamhill	From the west line of 4th to the center line of 9th Sts	June 8.	5093			34	15	748.2		162.0	60	552														
N. 16th	From the center line of L to the center of N. Front Sts	June 30	5090			105	98			450.0	39	36				74	126	200	1710.0							
Harrison	From the west line of Front to the west line of Tenth Sts	July 14	5116			2153	142	2756.0		788.0		162	670													
Salmon	From the west line of Front to the east line of Third Sts	July 14	5123			244		439.0		475.0																
S. First	From 100 ft. S. of Woods to the center line of Lane Sts	July 15	5120			3115	720			672.0		239		72					521.1							
Twelfth	From the south line of B Street to the north line of Montgomery St	Aug. 10	5151			1651	1780	4527.4		1377.6	163	1221	111													
N. 21st	From the north line of J Street to the Springville County Road	Aug. 11	5147			4304	391			2354.0	24	414		42		3112.0										
G	From the west line of N. 19th to the east line of N. 20th Sts	Aug. 11	5149			273	7	371.6		456.0																
Gibbs	From the east line of S. First to the west line of Corbett Sts	Sept. 1.	5172			3324	8			1296.0		288		144												
Water	From the center line of Harrison to the center line of Hall Sts	Sept. 15	5173			199	39	268.0				108														
Spring	Between Seventeenth and Eighteenth Streets	Oct. 28	5247		50																					
Gaines	From 20 ft. west of Hood to 30 ft. east of Hood St	Oct. 28	5248			10																		83		
Market	From Eleventh to Twelfth Streets	Dec. 2.	5307			175	75	200.0																110		
Total						50	850	31720	11677	9805.2	10951.1	82	262	3350	893	906	5160.8	1144	2231.1		50				88	110

* 72 Relay. † 126 New cov. Plank. † 74 Relay cov. Plank. 200 New Stringer.

POLICE JUDGE'S REPORT.

OFFICE OF THE POLICE JUDGE OF THE CITY OF PORTLAND, }
 PORTLAND, OR., January 1, 1888. }

To the Hon. Mayor and Common Council of the City of Portland :

GENTLEMEN: Below please find a summarized statement by quarters of the cases (City and State), disposed of in the Police Court of the City of Portland during the year A. D. 1887, with amount of fines and costs *collected* therein :

FIRST QUARTER, Jan. 1st to April 1st, 1887.

No. of State cases	112
“ City “	342
	454
Total cases	454
Fines, State cases	\$427 00
“ City “	831 50
Costs, State “	57 50
“ City “	-----
	\$1316 00
Total receipts	\$1316 00

SECOND QUARTER, April 1st to July 1st, 1887.

No. of State cases	76
“ City “	251
	327
Total cases	327
Fines, State cases	\$259 00
“ City “	786 60
Costs, State “	12 50
“ City “	7 50
	\$1065 60
Total receipts	\$1065 60

THIRD QUARTER, July 1st to Oct. 1st, 1887.

No. of State cases	150
“ City “	319
Total cases	469
Fines, State cases	\$574 50
“ City “	830 80
Costs, State “	92 20
“ City “	-----
Total receipts	\$1497 50

FOURTH QUARTER, Oct. 1st to Jan. 1st, 1888.

No. of State cases	153
“ City “	368
Total cases	521
Fines, State cases	\$ 407 00
“ City “	1033 85
Costs, State “	30 00
“ City “	8 60
Total receipts	\$1479 45

RECAPITULATION.

Total No. of State cases for year	491
“ “ City “ “	1280
Total City and State cases	1771
Total Fines, State cases for year	\$1667 50
“ “ City “ “	3482 75
“ Costs, State “ “	192 20
“ “ City “ “	16 10

Total Fines and Costs, City and State cases for year, \$5358 55

Respectfully submitted,

RALPH M. DEMENT,

*Police Judge of the City of Portland
and Ex-Officio Justice of the Peace.*

PORTLAND, OR., Jan. 1st, 1888.

POLICE COMMISSIONERS' REPORT.

PORTLAND, OREGON, January 3, 1888.

To the Hon. Mayor and Common Council of the City of Portland:

GENTLEMEN: We respectfully present this our report of the expenses of the Police Department for the past year, in tabulated form. The amounts appropriated and expended for the various sources of expense, are as follows:

APPROPRIATIONS.	Estimated.	Expended.
Pay of Police	\$44,016 00	\$41,981 20
Police Clerk	1,080 00	1,080 00
Pound Master	1,080 00	1,080 00
Board of Prisoners	1,600 00	937 71
Expense of Police Building	1,500 00	1,653 76
Indigent sick	750 00	651 00
Medical attendance	100 00	105 50
Contingent expenses	500 00	332 00
	\$50,626 00	\$47,821 17

We take occasion to assure your Honorable Body that we will exert our utmost endeavors in reducing the expenses of this department, in every reasonable direction, during the coming year.

We have the honor to remain yours respectfully,

JONATHAN BOURNE, JR.,
B. P. CARDWELL,
JOS. SIMON,

Board of Police Commissioners.

CITY JAIL AND POLICE STATION.

INVENTORY OF
PROPERTY BELONGING TO THE CITY, JAN 1st, 1888.

CHIEF'S ROOM.

- 1 Safe (Raymond & Wilshire).
- 2 Writing desks.
- 2 Tables.
- 2 Cases for blanks.
- 1 Hat rack.
- 1 Mirror.
- 4 Chairs.
- 1 Heating stove.
- 1 Lounge.
- 1 Pair scissors.
- 2 Inkstands.
- 2 Pen racks.
- 1 Letter press.
- 2 Paper weights.
- 1 Ruler.
- 1 Copy Laws of Or. 1845 to 1864.
- 1 " " " 1885.
- 1 " " " 1885, Special session.
- 1 Spittoon (broken).
- 1 Copy Laws of Portland 1884.
- 1 " " " 1886.
- 1 Feather duster.
- 1 Arm rest.
- 1 Eraser.
- 1 Letter clip.

CLUB ROOM.

- 12 Chairs (2 badly broken).
- 2 Tables.
- 1 Heating stove (damaged).
- 2 Spittons.

JUDGE'S ROOM.

- 4 Inkstands.
- 4 Pen racks.
- 4 Chairs.
- 2 Writing desks.
- 2 Tables.
- 1 Case and table.
- 1 Hat rack.
- 1 Lounge.
- Shovel and tongs.

COURT ROOM.

- 26 Chairs.
- 7 Benches.
- 1 Coal stove.
- 1 Table (reporter's).
- 1 Desk (clerk's).
- 1 Coal hod.
- 4 Inkstands.

HALL.

- 1 Wood box.
- 1 Bulletin board.

CAPTAIN'S OFFICE.

- 1 Safe.
- 1 Writing desk.
- 1 Inkstand.
- 1 Case (for prisoner's effects).
- 2 Chairs.

PRIVATE OFFICE.

- 1 Lounge.
- 1 Stove.
- 2 Desks.
- 3 Chairs.
- 1 Water cooler.
- 2 Spittoons.
- 1 Wood box.
- 1 Clock.
- 1 Mirror.
- 1 Hill's code.
- 1 Laws of Portland.
- 1 City Directory.

FRONT CELL.

- 2 Lounges.
- 1 Single bedstead.
- 1 Stand.
- 2 Chairs.
- 1 Straw mattress.
- 1 Heating stove.

MAIN CELL.

- 1 Heating stove (old).

REPORTS OF OFFICERS

—OF THE—

PORTLAND PAID FIRE DEPARTMENT,

—OF THE—

CITY OF PORTLAND,

For the Year 1887.

REPORT

—OF THE—

BOARD OF FIRE COMMISSIONERS.

1887.

OFFICE OF THE BOARD OF FIRE COMMISSIONERS, P. P. F. D.,
PORTLAND, December 31, 1887.

*To the Honorable the Mayor and Common Council of the City of
Portland:*

GENTLEMEN:—As required by the law creating the Portland Paid Fire Department, the Board of Fire Commissioners herewith present to your Honorable Body their fifth annual report, showing the operations of the Department for the fiscal year ending December 31st, 1887, with detailed reports of the Chief Engineer, and Superintendent of Fire Alarm Telegraph, also estimates for the maintenance of the Department for the year 1888.

FINANCIAL.

RECEIPTS.

RECEIVED FROM—

Taxes and transfers	\$59,039 02
Sale of No. 3 Engine house	17,500 00
Sale of 2 horses	125 00
Exempt certificates	40 00
Return costs Bragg suit	20 00

Total 76,724 02

EXPENDITURES.

The amount expended and claims audited by this Board for the year 1887, aggregate (including \$6,985 46, deficiency of 1886)	\$72,818 33
Leaving a balance of	3,905 69
Of this amt. there is subject to outstanding warrants	1,615 33
Leaving available for expenditures of 1888	\$2,290 36

SUMMARY.

EXPENDITURES.

Salaries of entire department	\$35,979 84
Running expenses of department	12,159 27
Portland Water Co. and Hyd. E. Co.	9,060 00
New material	6,905 18
Fire alarm less new material	829 84
Litigation, Robt. Bragg vs. City	652 00
Auctioneers expenses No. 3 Engine house	246 74
	<u>\$65,832 87</u>
Deficiency of 1886 paid out of fund for 1887	6,985 46
Total	\$72,818 33

ESTIMATES FOR 1888.

Salaries	\$39,389 84
Feed	2,650 00
Hydrants	1,600 00
Cisterns	300 00
Telephones	540 00
Coal	300 00
Coke	400 00
Wood	50 00
Gas	700 00
Harness and repairs	350 00
Horseshoeing	550 00
Repairs to apparatus	1,000 00
Repairs to houses	500 00

Small stores	500 00
City water	2,400 00
Hyd. E. Co. supply	6,360 00
Veterinary surgeon and medicines	100 00
Office rent	372 00
Office expenses, printing and stationery	400 00
Ground rent Hose Co. No. 1	420 00
Insurance on houses	230 20
Fire alarm telegraph and new material	2,200 00
Horses	750 00
Hose and pipe	1,500 00
Janitor	60 00
New material	500 00
Sundry accounts	250 00
Oils	150 00
New truck	3,500 00
	<u>\$68,022 04</u>

AMOUNT REQUIRED FOR 1888.

The amount we have estimated that will be required for the Fire Department for the year 1888 aggregates \$68,022 04, and we respectfully ask your Honorable Body to levy and collect a special tax sufficient to cover said amount, less \$2,290 36 now in hands of City Treasurer and subject to expenditures of 1888.

DEFICIENCY OF 1886.

Out of the amount received by the Board of Fire Commissioners during the year 1887, we have paid \$6,985 46 deficiency of 1886.

FIRE ALARM TELEGRAPH.

We have made extraordinary expenditures in this department and in order to keep pace with the growth of the city it became necessary to change and greatly enlarge the system and add to its appointments. This Department has not been properly kept up for several years past in consequence of want of funds, hence much of the old plant had become almost worthless. We have added 11 fire alarm boxes and have made the system a non-

interfering one by having three circuits. We have also added an Automatic Repeater, and constructed nine miles of new wire and made several other material changes, for detail of which we would respectfully refer your Honorable Body to the report of Superintendent A. J. Coffee which will be furnished you in due course. We feel that when all the work we now have in process is done, that the City will have as complete a system of Fire Alarm Telegraph as is practicable.

CITY HYDRANTS.

As a matter of economy and in order to avail ourselves of the opportunity, we have as far as possible followed up the "Water Committee" in placing hydrants along the line of their new mains as fast as laid. We have so placed 21 new hydrants, but on account of the great distance have been obliged to place them at greater intervals than we wished. We may not have the resources to keep up with the Committee in the future, as their work in this particular hereafter will in all probability be on such an extended scale that it may eventually of necessity become a part of their duty to place hydrants.

HYDRAULIC ELEVATOR COMPANY.

We have found this Company of very valuable assistance during the year 1887, and notably at the fires at the store of Messrs. Whittier, Fuller & Co., and Esmond wharf—these two being very narrow escapes from extensive conflagrations.

FIRE BOAT.

The attention of your Honorable Body was called by us in our last annual report, to the fact that a good strong Fire Boat will be one of the imperative necessities of the future; but we now can only reiterate what we then said, that the immense warehouse and mill interests of Albina and East Portland should contribute to the building and support of such a boat.

NEW HOOK AND LADDER COMPANY.

A new company in this branch of service is in our judgment a necessity. The City now covers too much territory for one

company to meet its requirements. Hence we hope early in the coming year to have such a company organized and in active service. We would respectfully call your attention to the report of the Chief Engineer which accompanies this, for much detail of interest.

STAND PIPES AND FIRE ESCAPES.

We would again call your attention to our communication of November 2d, 1887, requesting the passage of an ordinance requiring stand pipes and fire escapes to be placed on the outside of all brick buildings of more than three stories in height. We regard this as a matter of great importance, and feel sure that such an ordinance, properly enforced, will materially assist our department in the discharge of fire duty.

VALUE OF PROPERTY.

The total amount of property held in trust by the Commission is as follows:

Real estate and improvements	\$100,000 00
Horses, apparatus, furniture, tools, stores, etc	71,350 21
Total	<u>\$171,350 21</u>

FIRE RECORD.

Whilst the number of alarms and actual fires during the past year has been one-third greater than any previous year, the loss is the smallest, with but one exception, since the organization of the department.

In 1883 total losses amounted to	\$319,092 20
In 1884 " " "	403,851 90
In 1885 " " "	59,329 73
In 1886 " " "	98,146 46
In 1887 " " "	84,173 72

In conclusion, we wish to return our thanks to your Honorable Body for many favors and courtesies received at your hands.

We are also under many obligations to the City Auditor and his able deputy for much valuable assistance in matters pertain-

ing to our department. We return our thanks to Chief of Police Parrish and the members of his force for the promptness and efficiency displayed in turning in alarms and rendering assistance in various ways.

Respectfully submitted,

GEO. L. STORY,
JAMES LOTAN,
T. B. TREVETT,
Fire Commissioners.

NEW MATERIAL PURCHASED.

1 pair horse blankets, Hook and Ladder Company No. 1	\$20 00
1 galvanized feed box, Engine Company No. 3	3 50
6 chairs and 1 table, Hook and Ladder Company No. 1	30 00
1 chair Commissioners' office	6 50
1 bucket, Hose Company No. 1	1 25
1 link block	9 00
1 keg spikes	3 25
2 springs for Amoskeag Engine	60 00
1 jack-screw and 1 wrench, Engine Company No. 4	5 75
1 horse blanket, Engine Company No. 3	5 00
1 supply wagon	350 00
1 horse blanket and whip, Engine Company No. 1	11 00
2 pair fire door hinges	11 00
1 riveting hammer	1 00
1 oil cup and ½ dozen gange glasses	3 75
2 whips, Hose Company No. 2 and supply	6 50
1050 feet hose	1,268 82
1 4-gallon sprinkler	1 50
1 manure fork, Hook and Ladder Company	1 00
Patent swinging harness for Engine and Hose Companies	200 75
6 wrought-iron wrenches	12 00
2 polished steel head axes, Hook and Ladder Company	3 00
18 patent steel horse collars	144 00
1 whip, Engine Company No. 3	4 00
1 horse for supply wagon	225 00
1 clock, Engine Company No. 3	4 50
1 wrench, Engine Company No. 2	1 00
1 whip, Engine Company No. 2	4 00
1 machinist's wrench, Hose Company No. 2	1 25
1 whip, Engine Company No. 4	3 50
2 galvanized and 1 tin pail, Engines 1 and 2 and H. and L.	2 50
500 feet 2½ 4-ply hose	575 00
1 fire pail	3 00
3 bridles, Engine Company No. 4	10 50
1 cold chisel	1 00
1 galvanized iron feed box, Engine Company No. 3	3 50

12 spanners	18 00
1 heater	59 14
500 feet hose, coupled	525 00
1 whip, Engine Company No. 1	4 00
1 stove, Poland No. 25, Hose 2	32 60
1 whip, Engine Company No. 2	2 25
1 wrench, axe and plyers	4 00
1 horse	175 00
1 Vaudevelde heater	175 00
2 horse covers, Hose Company No. 1	6 00
1 galvanized bucket, Hook and Ladder Company	2 00
1 oil feeder	25
	<hr/>
	\$4,000 56
New apparatus and material for Fire Alarm Telegraph	\$2,904 62
	<hr/>
Total	\$6,905 18

CURRENT EXPENSES.

Twelve months ending December 31, 1887.

Salaries of entire Department	\$35,979 84
Ground rent, Hose Company No. 1	420 00
Office rent	372 00
Insurance on houses	230 20
Printing, stationery, advertising and janitor	520 85
Horse feed	2,434 25
Hydrants, repairs and supplies	1,417 15
Cisterns, repairs and supplies	648 82
Telephones, use of 8 instruments	480 00
Coal	257 50
Coke	384 00
Wood	58 75
Gas	668 02
Harness and repairs	263 42
Repairs to apparatus	1,595 82
Repairs to houses	1,081 65
Horseshoeing	491 98
Small stores (sponges, brushes, brooms, etc)	364 36
Oils	117 90
Water supply, City	2,700 00
Water supply, Hydraulic Elevator Company	6,360 00
Veterinary surgeon and medicines	69 50
Sundry expenditures	283 10
Litigation	652 00
Auctioneer's expenses, 3's engine house	246 74
Fire alarm (current expenses), labor, repairs, supplies, etc	829 84
	<hr/>
Total	\$58,927 69

RUNNING EXPENSES OF COMPANIES

For twelve months ending December 31, 1887.

ARTICLES.	Engine Co. No. 1.	Engine Co. No. 2.	Engine Co. No. 3.	Engine Co. No. 4.	H. and L. Co. No. 1.	Hose Co. No. 1.	Hose Co. No. 2.
Oats	\$152 32	\$120 86	\$132 00	\$154 53	\$185 41	61 83	\$103 95
Bran	14 84	22 93	11 68	1 50	16 35	18 56	14 63
Carrots	6 95	6 45	2 50	1 90	7 14	2 40	7 52
Hay	154 75	192 41	196 08	167 58	170 76	109 63	95 31
Straw	40 84	32 58	41 31	41 43	73 59	32 23	46 76
Horse shoeing	72 87	82 11	61 10	72 00	99 50	49 75	51 65
Harness and repair'g	74 56	73 16	43 61	64 86	22 60	51 71	72 07
Coal	51 50	17 50	41 50	60 50	60 00	.	9 00
Wood	4 50	19 00	4 50	2 25	.	19 50	9 00
Repairs on apparatus	152 41	154 48	279 27	111 96	143 00	102 35	11 25
Repairs on house	218 56	52 25	190 00	44 33	457 74	29 39	60 23
Oils	12 10	5 75	19 53	25 80	20 00	13 25	15 55
Small stores	46 60	44 95	51 40	48 14	68 86	32 60	39 35
Veterinary surgeon and medicines	13 00	9 00	13 50	5 50	16 00	2 50	2 50
Gas	101 59	69 75	109 20	103 00	151 92	66 80	64 95
Telephone	60 00	60 00	60 00	60 00	60 00	60 00	60 00
Coke	96 00	81 00	86 00	65 00	25 00	.	21 00
Salaries	4,800 00	4,800 00	4,800 00	4,800 00	3,720 00	3,240 00	3,240 00
Totals	\$6,073 30	\$5,834 18	\$6,143 27	\$5,831 18	\$5,323 84	\$3,923 10	\$3,924 72

Hook and Ladder Company supplied gas to shed, battery room and bell tower from their metre, fuel for battery room, also feed for supply wagon horse and Chief Engineer's horse.

These items are simply to show cost of each company for the year, and the above is computed in preceding accounts.

AMOUNT OF PROPERTY HELD IN TRUST.

REAL ESTATE.

No. 1 house and lot, estimated	\$30,000 00
No. 2 house and lot, estimated	15,000 00
No. 3 house and lot, estimated	10,000 00
No. 4 house and lot, estimated	4,000 00
No. 6 house and lot, estimated	4,000 00
No. 2 hose	12,000 00
Hook and Ladder Co. house and lot, Corporation	
Shed and Bell Tower	25,000 00
	<u>\$100,000 00</u>

APPARATUS.

1 hook & ladder truck, 7 engines, 4 tenders (2 wheels),	
5 hose carriages, (4 wheels), hose and pipes, heat-	
ers, 1 fire pump, 1 ladder, 2 chairs	\$45,000 00
Harness, etc.	1,000 00
Property in Corporation Yard (not including the appa-	
ratus), as shown by inventories	1,000 00
Property in Commissioner's office	400 00
Property in engine houses, tools, stores, etc	3,500 00
20 horses	3,500 00
	<u>\$ 54,400 00</u>
Fire alarm apparatus, in charge of Supt. of Fire Alarm Telegraph	16,950 21
Total,	<u>\$171,350 21</u>

CHIEF ENGINEER'S REPORT.

OFFICE OF CHIEF ENGINEER, P. P. F. D.,
PORTLAND, OREGON, Dec. 31, 1887.

To the Honorable the Board of Fire Commissioners :

GENTLEMEN:—I herewith respectfully submit to your Honorable Body my fourth annual report (and the fifth of the organization), in which is a record of the operations of the department during the year ending December 31, 1887.

FIRES.

During the year the department has responded to 117 alarms, 74 being from the large bell, 17 telephones, and 26 stills. This shows a large increase in the number of alarms over the year 1886, but it is gratifying to report that we have had very few large fires, and notwithstanding the greater number of alarms, the loss is the smallest reported in any year since the organization of the department, with the exception of 1885.

The losses for the year have been \$84,173.72; the most notable fires causing the bulk of this loss, occurring as follows: Heywood Bros.' furniture establishment, 164 and 166 Second Street, July 23d, at 2:45 a. m., entailing a loss of \$25,856.00. Harrison Street School, September 6th, at 2:40 p. m., entailing a loss of \$12,261.00; and the Esmond Hotel wharf, October 28th, at 11:55 p. m., entailing a loss of \$14,615.00.

APPARATUS.

The apparatus of the department in active service is classified as follows: Two second-class Amoskeag engines, one fourth-class Amoskeag engine, one third-class Silsby engine, four two-wheel carts, two four-wheel carriages, and one second-class

Hayes' hook and ladder truck. A first-class Hayes' truck has been ordered from the manufacturers, and will be delivered and put into service within the next few months. The department will then be reasonably well equipped for all ordinary emergencies.

RELIEF SERVICE.

The relief service consists of one second-class Silsby, one third-class Silsby, one fourth-class Silsby, and three four-wheel hose carriages. This apparatus is comparatively useless to the department, with the exception of the second-class Silsby, which has recently been overhauled, and is now in good condition for the style of apparatus.

HORSES.

There are (20) twenty horses in the department, and considering the length of time some of them have been in service, they are all in first-class condition. During the year two have been purchased to replace the same number, disabled and sold, one for supply wagon and one for three's hose cart. The drivers are competent men, and exercise good judgment in the care of stock placed under their charge.

WATER SUPPLY.

Our supply of water has been greatly increased by the laying of 4.06 miles of new and larger mains in various parts of the city, by the Water Committee, connecting the same with cisterns, and erecting hydrants. The Fourth street reservoir having been abandoned, and the Lincoln street reservoir being higher, gives us more pressure, thus increasing our facilities for service.

In addition to this the City Water Works propose to lay distribution pipes for both high and low service systems, at intervals of not more than one block, on all graded streets within the city limits. This enlarged distribution will give us an adequate supply of water for the protection of property in all parts of the city.

CISTERNS.

The cisterns at Sixth and Mill, Sixth and Main, Seventh and Salmon, and Fourth and Stark, have been connected with three-inch gates, and all the cisterns in the city are now connected with one and a half and three-inch gates, with the exception of the one situated at Third and Grant streets.

HYDRANTS.

During the past year twenty-one new hydrants have been set, the locations being as follows: Ninth and Stark, Tenth and E, Tenth and I, Twelfth and Washington Twelfth and K, Thirteenth and O, Eighteenth and B, D, F, H, J, L, N, P, and R, Nineteenth and B, E, I, and K, Twentieth and S, and Twenty-Second and S, making 71 hydrants on the mains of the City Water Works in position and ready for service. The north-western part of the city being supplied with a number of hydrants gives the department great advantage over its former service. We have 52 hydrants on the mains of the Hydraulic Elevator Co., thus giving us in all parts of the city 123 hydrants.

HOUSES.

Necessary repairs have been made at the houses, and all are now in good condition. The Hook and Ladder house has been ceiled and painted, and the Bell Tower received needed repairs, as well as a thorough coat of paint.

FIRE ALARM TELEGRAPH.

This branch of the department has been greatly improved during the past year, by a complete change to the strictly non-interference system, in having three separate circuits. Eleven new boxes have been erected in different parts of the city, making thirty-three boxes in all.

HOSE.

We have at present 6,200 feet of rubber hose in good condition, all on reels, with the exception of about 600 feet. We have

also about 800 feet of inferior rubber hose, which will in a short time be entirely worthless.

ACCIDENTS AND SICKNESS.

There have been very few accidents during the year, and none of a serious nature. Members of the department who have been reported on the sick list, were called on by our visiting committee and their wants attended to, by reporting to the

MUTUAL RELIEF ASSOCIATION.

This association is in a flourishing condition, the treasury being replenished monthly by fines and dues of members. During the year 25 warrants have been issued and paid for benefits amounting to \$588.71. A complete record of the financial condition of the association accompanies this report.

I have no special recommendations for the ensuing year. I understand an effort will be made to have an ordinance passed by the Council requiring the erection of stand pipes and fire escapes to buildings of three and more stories in height. This will be of material benefit and assistance to the department.

The new Hayes' Truck ordered will soon be delivered, and our apparatus will then be all that can be desired for the present requirements of our city.

Swinging harness has been purchased for the department which gives great relief to the horses, and does away with the oft needed repairs to ordinary harness.

In closing my report, I beg leave to thank the officers and members for their strict and close attention to their duties, and the various departments of the city government for courtesies extended.

Respectfully submitted,

HARRY MORGAN,

Chief Engineer.

LOCATION OF HOUSES.

No. 1 Engine Company, south side Morrison, between First and Second sts.
 No. 2 Engine Company, west side Second, between Oak and Pine sts.
 No. 3 Engine Company, south side B, at intersection Fifteenth st.
 No. 4 Engine Company, east side Fourth, bet. Montgomery and Mill sts.
 Hook and Ladder Company, east side Fourth, between Morrison and Yamhill streets.
 Hose Company No. 1, foot of C street, Water front.
 Hose Company No. 2, east side of First, between Madison and Jefferson.
 Corporation Shed, east side Fourth, between Morrison and Yamhill sts.
 Bell Tower, in rear of Corporation Shed.

INSURANCE ON BUILDINGS.

Engine House No. 3, Imperial Ins. Co.	\$1,500 00
Engine House No. 3, Lion Ins. Co.	1,500 00
Engine House No. 4 State Investment Co.	1,500 00
Couch Engine House, State Investment Co.	1,500 00
Hook & Ladder Co., Union Ins. Co.	1,250 00
Bell Tower & Shed, Home of N. Y. & Phoenix of Hartford.	1,250 00
Total	\$8,500 00

NUMERICAL STRENGTH OF DEPARTMENT.

PERMANENT FORCE UNIFORMED.

Chief Engineer	1	✓
Engineer of Steamers	4	✓
Drivers of Engines	4	✓
Drivers of Hose	6	4 ✓
Driver of H. and L. Truck	1	✓
Foreman of H. and L. Truck	1	✓
Foreman Hose Companies	2	✓
Drayman	1	
	-20	

MEMBERS AT CALL.

1st Assistant Engineer	1	✓
2nd Assistant Engineer	1	✓
Foreman of Engine Companies	4	✓
Extramen of Engine Companies	24	
Extramen of H. and L. Companies	8	
Extramen of Hose Companies	12	
	-50	
	70	

3 Commissioners.
 1 Secretary.
 1 Superintendent Fire Alarm.

SALARIES OF OFFICERS AND MEN.

1 Chief Engineer	per annum	\$2,000 00
1 First Assistant Engineer	"	600 00
1 Second Assistant Engineer	"	500 00
4 Engineers of Steamers	"	1,200 00
4 Drivers of Engines	"	900 00
4 Drivers of Engine Tenders	"	840 00
1 Driver H. and L. Truck	"	900 00
1 Foreman H. and L. Truck	"	840 00
1 Assistant Foreman H. and L. Truck	"	300 00
2 Drivers Hose Companies	"	900 00
2 Foremen Hose Companies	"	900 00
4 Foremen Engine Companies	"	340 00
4 Assistant Foremen Engine Companies	"	300 00
20 Extramen of Engine Companies	"	240 00
7 Extramen of H. and L. Truck	"	240 00
12 Extramen of Hose Companies	"	240 00
1 Driver Supply Wagon	"	780 00
1 Superintendent Fire Alarm	"	1,500 00
1 Secretary	"	1,200 00

TABLES OF FIRES AND ALARMS.

YEAR ENDING DECEMBER 31, 1886.

MONTHS.	From all sources	From Boxes.	Stills.	Tele-phones	Actual Fires.	False.
January	4	2	2		4	
February	8	5	2	1	8	
March	2	2				
April	8	5	2	1	7	1
May	3	2		1	2	1
June	9	6	1	2	9	
July	9	5	4		8	1
August	9	7	2		8	1
September	8	5	3		8	
October	5	1	2	2	5	
November	8	7	1		6	2
December	7	4	2	1	1	
Totals	80	51	21	8	66	6

YEAR ENDING DECEMBER 31, 1887.

MONTHS.	From all sources	From Boxes.	Stills.	Tele-phones	Actual Fires.	False.
January	3	1	1	1	3	
February	8	4	1	3	7	1
March	9	4	3	2	9	
April	5	2	2	1	5	
May	11	8	3		11	
June	15	10	3	2	15	
July	20	13	4	3	20	
August	8	7		1	6	2
September	13	11	2		13	
October	11	4	5	2	11	
November	5	4		1	5	
December	9	6	2	1	9	
Totals	117	74	26	17	114	3

Increase of alarms over 1886—37.

Increase of fires over 1886—48.

CAUSES OF FIRES AND ALARMS, 1887.

Burning sulphur	1
Boys smoking cigarettes	1
Carelessness	18
Chimneys burning out	25
Defective flues	6
Fireworks	6
False alarms	3
Hot ashes	5
Lamps exploded	7
Pot of burning tar	1
Roasting pig	1
Supposed incendiary	5
Sparks on roof	14
Sparks from steamboat	1
Sparks from furnace	1
Spontaneous combustion	1
Upsetting pan of fat	1
Upsetting lamp	3
Unknown	17
Total	117

ANNUAL REPORT OF ENGINE CO. No. 1.

Location:—No. 32 South Side Morrison street, bet. First and Second.

COMPANY ROLL.

No. of Badge	NAME.	POSITION.	Age	OCCUPATION.	RESIDENCE.
3	M. Laudenklos . . .	Foreman	29	Cabinet maker .	7th and Salmon.
4	W. H. McMullen . . .	Engineer	42	Engine house . .	
5	J. Frainey	Engine driver . .	27	Driver	Engine house.
6	D. Campbell	Cart driver . . .	24	Driver	Engine house.
7	H. O. Rosefield . . .	Clerk	26	Reporter	Engine house.
8	L. Favoro	Extramman	40	Contractor . . .	Engine house.
9	E. Jacobs	Extramman	28	Carpenter	Engine house.
10	E. Beckwith	Extramman	26	Clerk	2nd and Market.
11	John O'Connor . . .	Extramman	19	Laborer	Engine house.
12	M. J. Duffy	Extramman	24	Wireman	Engine house.

Number of times responded to big bell, 73.

Number of times responded to still alarms, 7.

Total number of hours service, 71:45.

APPOINTMENTS.

A. Meyer, March 1st; W. E. Jacobs, May 15th; Wm. Keller, June 22nd; Fred May, July 20th; John O'Connor, Dec. 20th; M. J. Duffy, Dec. 22nd.

RESIGNATIONS.

P. Moncet, March 1st; M. Judge, May 15th; A. Meyer, Dec. 19th; Fred May, Dec. 21st.

TRANSFERS.

E. Moshier, June 22nd to Engine No. 2; Wm. Keller, July 20th to Engine No. 4.

INVENTORY.

1 second-class Amoskeag engine (14 years old, in good order), 1 hose cart complete, 750 feet Maltese Cross hose, 3 horses, 3 blankets, 1 whip, 1 jack-screw, 6 gal. coal oil, 4 gal. machine oil, 1 singletree for engine, 1 crow bar, 2 small coal shovels, 2 pokers for engine, 1 cistern key; 1 relief valve on engine 1 gong on engine, 1 hose clamp, 1 hose strap, 8 spanners, 3 play pipes, 1 heater complete, 400 lbs. of coal, 10 arm chairs, 1 table, 1 dandruff brush, 1 curry comb, 2 coal stoves and pipe, 50 ft. 1-inch garden hose, 2 galvanized iron buckets, 1 galvanized iron kettle for stove, 1 towel, 1 sprinkler, 1 pitch-fork, 1 scoop shovel, 2 brooms, 1 axe, one hatchet, 2 ladders, 2 glass globes, 1 reel and rope, 1 hand engine tongue, 1 double block and tackle complete, 1 extra hydrant connection, 2 1-gal. oil cans, 1 set of wrenches for engine complete, 8 rubber valves, 2 old tug straps, ½ bottle spirits of nitre, 3 torches, 1 duster, 1 engine house fire alarm gong, 1 telescope suction, 1 hand axe, 2 lanterns, 1 engine fire lighter, hanging harness for 3 horses, 1 Coffee's marker, 3 unhitchers.

ANNUAL REPORT OF ENGINE CO. No. 2.

Location:—West Side Second St. bet. Oak and Pine.

COMPANY ROLL.

No. of Badge	NAME.	POSITION.	Age	OCCUPATION.	RESIDENCE.
13	R. T. Chamberlin . .	Foreman	41	Carpenter	3d and Pine.
14	W. Washer	Engineer	53	Engineer	Engine house.
15	T. Grenfell	Engine driver . .	29	Teamster	Engine house.
16	H. White	Hose driver . . .	27	Teamster	Engine house.
17	W. Collett	Ass't Foreman . .	29	Carpenter	Engine house.
18	R. Cullins	Extramman	24	Elec. lig't trim'r	4th, bet. A and B.
19	J. White	Extra an	25	Teamster	Engine house.
20	R. Graham	Extramman	27	Teamster	Engine house.
21	L. Cone	Extramman	30	Moulder	Wash'n, bet 5th & 6th
22	F. Moore	Extramman	32	Clerk	Pine, bet. 5th & 6th.

Number of times responded to fire alarms from large bell, 73.

Number of times responded to still alarms, 4.

Number of times responded to telephone, 7.

Total number of hours service, 48:55.

APPOINTMENTS.

R. Cullins, May 14th; H. J. White, July 1st; R. Grahern, July 4th; R. Cullins, August 9th; T. Grenfell, Oct. 22nd; J. P. White, Dec. 1st.

RESIGNATIONS.

R. Cullins, Mar. 18th; J. Hawley, May 1st; T. Grenfell, July 1st; P. Smith, Aug. 9th; E. Moshier, Oct. 1st; G. Ward, Dec. 1st; R. Cullins, July 4th.

TRANSFERS.

W. E. Jacobs, May 14th, to Engine No. 1; A. B. Richardson, June 21st, to Hook and Ladder.

INVENTORY.

1 fourth-class Silsby engine and heater complete, 1 two-wheel hose cart, 800 feet Maltese Cross hose, 1 set of double swinging harness, 1 set single swinging harness, 1 large feed box, 3 small galvanized iron feed boxes, 1 galvanized iron bucket, 2 hose clamps, 2 hydrant spanners, 4 hose spanners, 1 halter, 1 extra bridle, 3 hose straps, 1 monkey wrench, 1 fire poker, 2 brooms, 1 scoop shovel, 1 sprinkler, 2 oil cans, 1 feather duster, 1 cistern key, 1 hand truck, 1 crow bar, 3 horse blankets, 2 suction spanners, 1 dust pan, 1 block and tackle, 1 mop handle, 1 jack screw, 1 sponge, 1 dandruff brush, 1 horse brush, 1 curry comb, 9 chairs, 1 stool, 1 pitchfork, 2 spittoons, 8 feet one-inch hose for engine, 1 clock, good, 2 worthless clocks, 1 stove and 14 feet of pipe, 1 bar harness soap, 2 gallons lard oil, 3 galls. coal oil, ½ gall. neat's foot oil.

ANNUAL REPORT OF ENGINE CO. No. 3.

Location:—B and Fifteenth Street.

COMPANY ROLL.

No. of Badge	NAME.	POSITION.	Age	OCCUPATION.	RESIDENCE.
23	Edward Thayer . . .	Foreman	37	Mason	Pacific & Morrison.
27	Thomas Richet . . .	Ass't Foreman . .	31	Groceryman . . .	Third & Washington.
24	Alex Mehwalt	Engineer	47	Engineer	Engine House.
25	D Fuller	Engine driver . . .	27	Teamster	306 Washington.
26	Wm. White	Hose driver	31	Teamster	310 B.
32	E. Clopeck	Extraman	25	Poultryman . . .	Engine house.
30	C. Price	Extraman	30	Clerk	Third and Jefferson
29	F. Hicks	Extraman	27	Clerk	Ninth and C.
31	J. Young	Extraman	21	Marble cutter . .	Fifteenth and H.
28	J. Flynn	Extraman	29	Blacksmith . . .	326 B.

Number times responded to alarms from big bell, 73.

Number of times responded to still alarms and telephone, 8.

Total number of hours service, 43:35.

APPOINTMENTS.

John Young, May 1st; John Flynn, Sept. 1st.

RESIGNATION.

Henry Marshall, Sept. 1st.

TRANSFER.

A. B. Richardson to Engine No. 2.

INVENTORY.

1 second class Amoskeag engine (14 years old, in good order), 1 A. J. Coffee patented alarm indicator, 1 relief valve, 1 shut off nozzle and pipe, 1 service pipe, 2 11-foot suction pipes, 1 telescope hydrant connection, 1 short hydrant connection, 1 monkey wrench, 3 straight wrenches, 2 lanterns, 2 hose clamps, 1 patent engine oiler, 3 hydrant spanners, 5 ladder hooks, 1 steam heater complete, 1 Gamewell alarm, 2 coal shovels, 2 pokers, 2 steel bars, 1 cistern gate fork, 2 torches, 1 set brass ink blocks, 1 unhitcher, 1 telephone, 1 oil cloth for engine, 1 second-class Silby reserve engine, 1 2-wheel hose cart, 800 feet of hose, 1 hose hook, 1 axe, 1 extra shut off nozzle (no good), 1 jack screw, 1 engine gong, 3 horses, 3 horse blankets, 3 iron feed boxes, 2 horse brushes, 1 curry comb, 1 pair horse shears, 2 galvanized buckets, 2 stable brooms, 2 house brooms, 1 hay fork, 1 manure fork, 1 iron lined feed box, 50 ft. $\frac{3}{4}$ -inch rope and tackle, 1 mane comb, 50 ft. 1-inch rope, 50 ft. $\frac{3}{4}$ -inch garden hose and nozzle, 1 scoop shovel, 3 hitching straps, 1 pair extra lines, 1 front door chain, 1 window brush, 1 bottle castor oil, 1 bottle neatsfoot oil, 1 bottle arnica, 4 sponges, 1 hand lamp, 2 gal. coal oil, 1 gal. lard oil, $\frac{1}{2}$ gal. head-light oil, 6 sacks engine coal, $\frac{1}{2}$ ton coke, 10 pkgs. tripoli, $\frac{1}{2}$ lb. rotten stone 5 pkgs. Thurston's polish, 1 ball asbestos packing, $\frac{1}{2}$ lb. $\frac{1}{2}$ -inch asbestos packing, 6 balls lamp wicking, $\frac{1}{2}$ lb. hemp packing, 2 lbs. gnm packing, 1 duster and pan, 1 coal stove and pipe, 1 wood stove, 1 clock, 1 looking glass, 6 spittoons, 1 mop.

ANNUAL REPORT OF ENGINE CO. No. 4.

Location:—East side Fourth street, bet. Mill and Montgomery.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION	Age	OCCUPATION.	RESIDENCE.
33	A. Campbell	Foreman	28	Saloon keeper . .	4th bet. Har. & Hall.
34	W. Vivian	Engineer	28	Engineer	Engine house.
35	J. Field	Engine driver . . .	31	Teamster	Engine house.
36	Wm. Keller	Hose driver	28	Butcher	3d, b't. Mill & Mont'y
37	V. D. Behrens	Clerk	35	Blacksmith	Head of Eighth.
38	L. Wagner	Extraman	28	Teamster	Engine house.
39	F. White	Extraman	25	Book keeper	4th and College.
40	T. Richardson	Extraman	26	Boiler maker . . .	Colum. bet 1st & 2nd.
41	A. H. Fitchner	Extraman	31	Moulder	7th bet Hall & College
42	Ed. Simson	Extraman	38	Painter	3d bet Mark't & Mill.

Number of times responded to alarms from big bell, 73.

Number of times responded to still alarms, 6.

Number of hours service, 86:25.

APPOINTMENT.

Wm. Keller, July 20th.

RESIGNATION.

Tom Fitzsimmons, July 20th.

INVENTORY.

1 fourth-class Amoskeag engine, 1 hose cart, 750 feet Maltese Cross hose, 3 horses, 3 horse blankets, 1 set engine harness, 1 set hose harness, 2 engine lanterns, 8 chairs, 1 stove, pipe and zinc board, 1 table, 2 hose pipes, 2 cranks for hose reel, 1 unhitching apparatus, 1 marker, 1 block and tackle, 1 gong, 3 iron hay racks, 3 galvanized iron feed boxes, 2 iron buckets, 1 stable broom, 1 house broom, 1 duster, 1 heater, pipes and cocks, 1 clock, 2 cistern keys, 1 torch, 1 monkey wrench, 1 fire poker, 2 engine wrenches, 4 hydrant wrenches, 6 hose spanners, 1 steel crowbar, 1 hose clamp, 1 axe, 50 feet garden hose and nozzle, 1 curry comb and brush, 1 dandruff brush, 1 sponge, 1 mane comb, 1 scoop shovel, 1 pair lead bars, 3 collar supports, 1 engine shovel, 1 heater shovel, 1 jack screw, 2 suction lengths, 1 manure fork, 8 window blinds, 1 can coal oil, 1 can lard oil.

ANNUAL REPORT OF HOSE CO. No. 1

Location :—Foot of C street, river front.

COMPANY ROLL.

No. of Badge	NAME.	POSITION.	Age	OCCUPATION.	RESIDENCE.
53	J. D. King	Foreman	42	Painter	Hose house.
54	J. Kearney	Driver	34	Teamster	Hose house.
55	C. W. Thompson	Extraman	37	Teamster	125 cor. 6th and A.
56	T. O. Keefe	Extraman	38	Blacksmith	Hose house.
57	H. Lewis	Extraman	39	Smelter	Hose house.
58	D. F. Smith	Extraman	29	Solicitor	131 Oak, bet 6th & 7th
59	D. W. Gallagher	Extraman	30	Blacksmith	169 N. 11th bet I & J.
60	C. H. Williamson	Extraman	32	Porter	Hose house.

Number of alarms responded to from big bell, 73.

Number of still alarms responded to, 8.

Number of hours service, 47.

APPOINTMENTS.

D. Gallagher, May 16th, extraman; D. Smith, March 19th, extraman.

RESIGNATION.

M. Casey, May 16th, extraman.

TRANSFER.

W. E. Jacobs, March 19th, to Engine Co. No. 1.

ACCIDENT.

Hugh Lewis, extraman, by a fall from roof, Dec. 4th; off duty 14 days.

INVENTORY.

1 four-wheel hose carriage, 800 feet Maltese Cross hose, 2 horses, 1 double set harness, 1 stable broom, 2 house brooms, 1 table, 8 chairs, 1 curry comb, 1 dandruff brush, 1 hair brush, 1 screw driver, 1 stable shovel, 2 zinc buckets, 2 horse blankets, 1 whip, 1 box stove, 5 joints stove pipe, 1 monkey wrench, 5 gal. coal oil, 50 feet 1-inch rubber hose, 6 hydrant wrenches, 5 hose spanners, 1 zinc boiler, 2 side lanterns, 1 spiking mawl, 2 gate forks, 2 reel cranks, 2 axes, 1 torch, 1 clock, 1 cold chisel, 1 pitchfork, 2 cuspidores, 1 gong on carriage, 1 block and tackle, 2 sponges, 1 horse unhitching apparatus, 1 Game-well alarm gong and apparatus, 2 iron hay racks, 1 rivet punch, 2 service pipes, 1 crow bar, 1 hose clamp, 6 hose straps, 2 zinc feed boxes, 1 bar castile soap, 1 alarm clock, 1 lb. lamp black, 2 hub wrenches, 1 cord wood, 1 thumb oil can, 2 drop weights, 1 coal oil lamp, 1 can harness polish.

ANNUAL REPORT OF HOSE CO. No. 2.

Location :—West side First street, between Madison and Jefferson.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age	OCCUPATION.	RESIDENCE.
	H. McCarthy	Foreman	28	Moulder	Hose house.
	W. Davis	Driver	23	Driver	Hose house.
	W. Winters	Extraman	28	Upholsterer	4th and Market.
	J. Montag	Extraman	28	Moulder	Hose house.
	A. Cook	Extraman	25	Upholsterer	6 h and Alder.
	N. Patton	Extraman	28	Stableman	Hose house.
	B. Patton	Extraman	30	Stableman	Front and Jefferson.
	P. Moncet	Extraman	23	Tinsmith	Hose house.

Number of times responded to alarms from big bell, 73.

Number of times responded to still alarms, 8.

Number of hours in service, 60.

APPOINTMENTS.

W. Davis, May 1st, driver; P. Moncet, May 1st, extraman; B. Patton, July 4th, extraman.

RESIGNATION.

P. Griffin, July 4th.

TRANSFER.

S. Camp to Hook and Ladder Co.

INVENTORY.

1 two horse hose carriage, 850 feet Maltese Cross hose, 1 hose clamp, 1 gong, 1 axe, 1 crowbar, 6 hydrant wrenches, 4 lanterns, 3 hose straps, 2 play pipes, 1 whip, 2 horses, 1 set double harness, 2 horse blankets, 2 iron feed boxes, 1 leather pouch for carriage, 1 scoop shovel, 1 pitchfork, 1 house axe, 1 wood stove, 1 coal stove, 1 house gong, 6 chairs, 1 clock, 1 table, 1 sprinkler 6 spittoons, 7 window shades, 20 feet small hose, 1 jack screw, 2 house brooms 2 stable brooms, 1 curry comb, 2 horse brushes, 2 water buckets, 1 iron water boiler, 1 block and tackle and 50 feet of rope, 1 extra hose carriage, with 500 feet Maltese Cross hose and 250 feet White Anchor hose, 2 play pipes.

ANNUAL REPORT OF HOOK AND LADDER CO. No. 1

Location:—East side of Fourth street, bet. Morrison and Yamhill, No. 168.

APPARATUS.

Second-class Hayes Truck fully equipped.

COMPANY ROLL.

No. of Badge	NAMES.	POSITIONS.	Age	OCCUPATION.	RESIDENCE.
	Asa Nisonger . . .	Foreman . . .	30	Mill hand . . .	Truck house.
	Antony Richardson . . .	Driver . . .	24	Teamster . . .	Truck house.
	William Torpey . . .	Clerk . . .	49	Painter . . .	Truck house.
	Frederick Wagner . . .	Extramán . . .	34	Teamster . . .	Third and Lincoln.
	Agustus Detmering . . .	Extramán . . .	22	Cigar maker . . .	Truck house.
	Benjamin Woods . . .	Extramán . . .	30	Book Binder . . .	164 Fourth.
	William Smith . . .	Extramán . . .	30	Engineer . . .	110 Alder.
	Lawrence Maloney . . .	Extramán . . .	35	Mill hand . . .	Truck house.
	Adolf Fick . . .	Extramán . . .	34	Cabinet Maker . . .	Truck house.
	Joseph Willms . . .	Extramán . . .	36	Carpenter . . .	Truck house.

Bell alarms responded to, 73.

Telephone alarms responded to, 24.

Verbal alarms responded to, 7.

Hours in service, 80:39.

APPOINTMENTS.

A. Fick, extraman, June 21st; A. Richardson, driver, June 22nd; A. Detmering, extraman, June 27th; A. Nisonger, foreman, Aug. 8th; S. Camp, driver, May 1st.

RESIGNATIONS.

Al. Thomas, driver, Apr. 30th; Ed. Parker, extraman, June 21st; S. Camp, driver, June 22nd; Jas. Fitzsimmons, extraman, June 27th; B. Woods, foreman, Aug. 8th.

ACCIDENTS.

A. Nisonger, Mar. 26th, off duty 10 days; A. Nisonger, steel in eye, May 1st, off duty 9 days; Ben Woods, hand hurt by horse, off duty 13 days.

INVENTORY.

3 stoves, 14 lengths pipe, 15 chairs, 2 tables, 5 spittoons, 2 stove shovels, 1 flat head axe, 3 iron buckets, 1 iron kettle, 2 house brooms, 1 stable broom, 1 pitch fork, 1 scoop shovel, 2 horse blankets, 1 whip, 1 mop, 1 feather duster, 1 corn broom, 1 curry comb, 2 horses, 1 set swinging harness, 1 feed box, 1 hoof boot, 1 flue stop, 1 sprinkler, 1 brass lamp, 12 gas jets, 2 extra Babcocks, ½-keg bicarbonate of soda, 6 boxes charges for Babcocks, 3 pieces hose with pipes for Babcocks, ½-bottle sulphuric acid for Babcocks, 100 ft. small hose with pipe, 1 indicator, 1 unhitcher, 1 gong, 1 jack-screw, 1 clock, 1 hay hook.

REPORT OF KEEPER OF CORPORATION YARD.

Location:—East side Fourth St., bet. Morrison and Yamhill.

C. C. DOBLEBOWER *First Assistant Engineer,*

Keeper of Corporation Yard.

INVENTORY.

2 third-class Silsby engines, 1 fourth-class Silsby engine (worthless), 2 four-wheel hose carriages, 1 supply wagon, 1 set bobs for supply wagon, 1 single buggy, 1 set single buggy harness, 1 set single harness (supply horse), 2 horse blankets, 1 pair hames, 2 bridles, 2 pair two-horse lines, 6 old hand-tongues for engines, 1 coal tender, 2 steam heaters, 195 copper tubes for Amoskeag engine, 3 pair doubletrees, 3 whiffletrees, 6 rope reels, 100 lbs. mixed nails, 1 grind-stone and hangers, 1 pick, 1 square pointed shovel, 1 adze, 1 claw-hammer, 1 steel square, 7 heater grates, ½ sack waste, 1 sack rags, 1 set Sarven wheels, 2 two-inch iron axles, 1 horse-tongue and neck-yoke, 40 sacks coal, 1 new suction, 2 baskets for suction, 2 plug taps, 2 wheel wrenches, 2 crowbars, 19 hose spanners, 3 brass play pipes, 15 pairs hose couplings, 2 Siamese couplings, 1 hydrant reducer, 2 copper oil cups, 5 lanterns, 1 leaf spring, 2 slice bars, 2 pokers, 3 battering rams, 3 pike-holes, 2 horses, 600 feet rubber hose, 1 cistern wrench, 1 curry comb, 2 horse brushes, 1 Blake fire pump, 1 water gauge, 16 rubber valves, 32 springs for valves, 1 head light, 9 hose straps, 4 axe handles, 1 pair cart tugs, 2 collar pads, 5 lbs. lamp wick, 1 ladder, 1 panel door, 1 chain hook, 10 lbs. oakum, 1 set engine grate bars, 1 wheel pattern.

Fire Record for Twelve Months ending December 31, 1887.

MONTHS.	Loss on Buildings.	Loss on Contents.	Insurance on Buildings.	Insurance on Contents.	Loss Paid on Buildings.	Loss Paid on Contents.
January -----						
February -----	\$ 1,042 50	\$ 1,316 00	\$ 6,250 00	\$ 2,900 00	\$ 792 50	\$ 716 00
March -----	1,009 52	1,160 50	6,200 00	5,450 00	1,009 52	1,160 50
April -----	660 00		660 00		660 00	
May -----	1,030 40	774 50	27,700 00	2,800 00	1,030 40	774 50
June -----	571 34	859 51	7,000 00	4,800 00	271 34	759 51
July -----	7,663 10	25,439 69	19,500 00	98,100 00	7,239 75	23,594 69
August -----	137 80	1,745 95	100 00	2,400 00	100 00	1,140 00
September -----	12,050 63	4,835 31	16,602 61	7,147 39	11,950 63	4,835 31
October -----	3,396 32	13,910 69	23,700 00	24,450 00	3,396 32	13,910 69
November -----	796 50	1,219 31	5,500 00	7,400 00	796 50	1,219 31
December -----	252 15	4,302 00	8,000 00	55,300 00	252 15	4,302 00
Totals -----	\$28,610 26	\$55,563 46	\$121,212 61	\$210,747 39	\$27,499 11	\$52,712 51

RECAPITULATION OF LOSSES AND INSURANCE.

FOR 1886.

LOSSES.

Losses on buildings \$25,876 52
 Losses on contents 72,269 94

 \$98,146 46

INSURANCE RECEIVED.

On buildings \$17,315 52
 On contents 48,346 74

 \$65,662 26

LOSSES OVER INSURANCE RECEIVED.

On buildings \$ 8,561 00
 On contents 23,923 20

 \$32,484 20

INSURANCE INVOLVED.

On buildings \$132,518 50
 On contents 191,996 00

 \$324,514 50

RECAPITULATION OF LOSSES AND INSURANCE.

FOR 1887.

LOSSES.

Losses on buildings	\$28,610 26
Losses on contents	55,563 46
	<u>\$84,173 72</u>

INSURANCE RECEIVED.

On buildings	\$27,499 11
On contents	52,712 51
	<u>\$80,211 62</u>

LOSSES OVER INSURANCE RECEIVED.

On buildings	\$1,111 15
On contents	2,850 95
	<u>\$3,962 10</u>

INSURANCE INVOLVED.

On buildings	\$121,212 61
On contents	210,747 39
	<u>\$331,960 00</u>

CISTERNs.

LOCATION AND CAPACITY.

COMMENCING ON EACH STREET, SOUTH END OF CITY.

Location.	Capacity, Galls.	Location.	Capacity Galls.
Front and Harrison	20,000	Fifth and Washington	15,000
" Columbia	20,000	" Oak	15,000
" Madison	20,000	" E	20,000
First and Meade	20,000	" G	20,000
" Mill	15,000	Sixth and College	20,000
" Jefferson	15,000	" Mill	20,000
" Salmon	20,000	" Main	18,000
" Taylor	20,000	" D	20,000
" Morrison	20,000	Seventh and Harrison	15,000
" Alder	20,000	" Jefferson	20,000
" Washington	20,000	" Salmon	15,000
" Stark	23,000	" Morrison	8,000
" Oak	20,000	" Washington	15,000
" Ash	20,000	" Oak	15,000
" A	40,000	" B	16,000
" B	15,000	East Park and E	20,000
Second and Caruthers	20,000	Eighth and Hall	20,000
" Hall	20,000	" Clay	20,000
" Main	15,000	" E	17,000
" Yamhill	11,000	Ninth and Jefferson	20,000
" Alder	20,000	" Salmon	20,000
" Stark	20,000	" Morrison	20,000
" Pine	25,000	" C	15,000
" C	20,000	" G	20,000
" E	20,000	Tenth and Washington	15,000
Third and Grant	20,000	Eleventh and Madison	20,000
" Montgomery	12,000	" B	20,000
" Jefferson	15,000	" J	20,000
" Taylor	20,000	Twelfth and Market	20,000
" Morrison	20,000	Thirteenth and G	20,000
" Washington	15,000	" M	20,000
Fourth and Clay	20,000	Fifteenth and D	20,000
" Stark	20,000	Nineteenth and G	20,000
" B	11,000	Twentieth and B	20,000
Fifth and Caruthers	20,000	Pacific and Yamhill	20,000
" Taylor	15,000	Lownsdale and Morrison	15,000
" Morrison	20,000		

Total number cisterns, 73.

Total capacity, 1,363,000 gallons.

CITY HYDRANTS.

Hood and Meade.
 " Caruthers.
 " Lincoln.
 Front and Meade.
 " Lincoln.
 First and Hooker.
 " Wood.
 Second and Lincoln.
 Third and Market.
 " Clay.
 " Madison.
 " Salmon.
 " Yamhill.
 " Alder.
 " Stark.
 " Pine.
 " A.
 " B.
 " C.
 " D.
 " E.
 " F.
 Fourth and Lincoln.
 " Harrison.
 " Madison.
 " G.
 Fifth and Columbia.
 " Main.
 Sixth and Harrison.
 " Clay.
 " G.
 Seventh and Lincoln.
 West Park and Salmon.
 " Washington.
 Ninth and Stark.
 Tenth and E.

Tenth and I.
 Eleventh and Montgomery.
 " Salmon.
 Twelfth and Jefferson.
 " Taylor.
 " Alder.
 " Washington.
 " K.
 Thirteenth and J.
 " O.
 " Q.
 Fourteenth and Jefferson.
 " Clay.
 Fifteenth and B.
 " H.
 " K.
 " N.
 " P.
 " S.
 Seventeenth and E.
 Eighteenth and B.
 " D.
 " F.
 " H.
 " J.
 " L.
 " N.
 " P.
 " R.
 Nineteenth and B.
 " E.
 " I.
 " K.
 Twentieth and S.
 Twenty-second and S.

HYDRANTS OF ELEVATOR COMPANY.

Front and Yamhill.
 " Taylor.
 " Salmon.
 " Main.
 " Madison.
 " Jefferson.
 " Columbia.
 " Clay.
 " Market.
 " Morrison.
 " Alder.
 " Washington.
 " Stark.
 " Oak.
 " Pine.
 " Ash.
 " A.
 " B.
 " C.
 " D.
 " E.
 " H.
 " I.
 " K.
 " L.
 " M.

Front and O.
 First and Yamhill.
 " Taylor.
 " Salmon.
 " Main.
 " Madison.
 " Jefferson.
 " Columbia.
 " Clay.
 " Market.
 " Morrison.
 " Alder.
 " Washington.
 " Stark.
 " Oak.
 " Pine.
 " Ash.
 " A.
 " B.
 " C.
 " D.
 " E.
 " F.
 " G.
 Third and Oak (private).
 Fourth and C (private).

Total number of hydrants 123

REPORT OF SUPERINTENDENT FIRE ALARM TELEGRAPH.

OFFICE OF SUPT. F. A. TELEGRAPH,

PORTLAND, OR., Dec. 31, 1887.

*To the Honorable the Board of Fire Commissioners of the City of
Portland, Oregon:*

GENTLEMEN:—In accordance with the rules and regulations (Section VI), I have the honor to submit herewith the fifth annual report of the condition at this date, and the workings, improvements, etc., of the Fire Alarm Telegraph during the fiscal year ending this the 31st day of December, 1887.

We are operating eighteen miles of line No. 10 galvanized iron, half of which is insulated and strung on top of the Electric Light and Telephone Company's poles, the remaining nine miles of uncovered wire is strung on thirty 40-ft., fourteen 35-ft. and seventy-nine 25-ft. cedar poles, and on housetops, the same requiring seventy oak and twenty-nine iron corner brackets. On the Electric Light and Telephone Co's. poles, 270 iron top of pole brackets are in use, the whole requiring 393 insulators. Three thousand feet office cable and 1,100 feet office wire No. 14 connect to the line wire, 33 signal boxes, 11 gong strikers, 8 relays, and 1 town bell striker. Also, 1 three circuit Gamwell repeater and central office machinery, galvanometers, switches, Rheostat and Wheatstone bridge, etc.

The battery that operates this apparatus consists of 120 cells No. 1 Gravity and 60 cells disque Le Clanche.

The signal boxes are located as follows.

- 3—Southeast corner Salmon and Front streets.
- 4—Northwest corner Hall and First streets.
- 5—Southeast corner Mill and Fourth streets.
- 6—Northwest corner Jefferson and First streets.
- 7—Northwest corner Jefferson and East Park streets.
- 8—Southeast corner Morrison and Tenth streets.
- 9—Northwest corner North Eighth and E streets.
- 12—Southwest corner Morrison and First streets.

- 13—Northwest corner Washington and Third streets.
- 14—Northwest corner Oak and Second streets.
- 15—West side First street, between Vine and Ash streets.
- 16—Southwest corner North First and F streets.
- 17—Southeast corner North Fifth and D streets.
- 18—Southeast corner North Front and N streets.
- 21—Southwest corner Morrison and Fifth streets.
- 23—Southeast corner East Park and Oak streets.
- 24—Northwest corner Thirteenth and G streets.
- 25—Southwest corner North Thirteenth and N streets.
- 26—Northwest corner North Fifteenth and S streets.
- 27—South side Washington street, opp. North Fifteenth street.
- 28—Southwest corner North Eleventh and C streets.
- 29—Southeast corner Twenty-first and E streets.
- 31—Northwest corner Mead and First streets.
- 32—Northeast corner Jefferson and Twelfth streets.
- 34—Southeast corner Jackson and Seventh streets.
- 35—Southeast corner Clay and Fourteenth streets.
- 36—Northeast corner Montgomery and Ninth streets.
- 37—Northeast corner Grant and Fourth streets.
- 41—Northeast corner North Nineteenth and J streets.
- 42—Southeast corner Twenty-first and S streets.
- 43—Weidler's Mill, R & N Front streets.
- 51—Southwest corner Corbett and Whiteaker streets.
- 52—Northwest corner Main and Fourth streets.

There is also located in the central office and the several companies:

- 5 fourteen-inch electro-mechanical gongs.
- 3 small electro-mechanical gongs.
- 1 tower bell (4067 lbs.) and electro-mechanical striker.
- 1 relay (large).
- 6 relays (small).
- 5 galvanometers.
- 3 California Electrical Works No. 1 switches.
- 7 two point switches.
- 1 Gamwell indicator.
- 7 Recorders (Coffee's patent).
- 12 electric horse unhitchers (Coffee's patent).
- 1 circuit Gamwell repeater.

All of which are on three circuits and connected to the repeater, with switches to test, and throw in or out, either of the circuits. A galvanometer is also connected in each of the circuits to indicate the condition of the line.

All alarms from the signal boxes as per following table were received correctly.

In no case has there been an interference of the correct striking of the several gongs and tower bell of the number of the box turned in.

Box.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total from each Box.
3					1	2						1	4
4						2							2
5									2				2
6							1	2				1	4
7						1	1						2
8													
9				1			2		1				4
12	1		1		1		2	1		1			7
13		1			2	1	1	1	1		2	1	10
14			1			3	1	1				1	7
15								1	1	1		1	4
16		2			1				1				4
17			1			1							2
18													
21							1		1				2
23					2		3			1			6
24									2				2
25			1		1		1		1				4
26				1						1	1		3
27											1		1
28													
29													
31									1				1
32		1						1					2
34													
35													
36													
37												1	1
41													
42													
43													
51													
52													
Tot'l	1	4	4	2	8	10	13	7	11	4	4	5	74

Making in all seventy-four bell alarms.

INVENTORY AND VALUE OF FIRE ALARM PROPERTY.

APPARATUS.

32 Gamwell automatic non-interference signal boxes	\$5,980 00
1 Gamwell three circuit repeater	650 00
1 tower bell, 4,067 lbs, and striking apparatus	3,000 00
1 tower bell, (small)	100 00
5 galvanometers	60 00
1 galvanometer and rheostat	88 00
1 tripod for same	9 00
1 relay (large)	40 00
8 relays (small)	35 50
1 telegraph key	5 00
6 Gamwell gongs, 14-inch	1,500 00
6 recorders (Coffee's patent)	600 00
2 gongs, 10-inch, refitted to 14-inch	90 00
2 gongs, 6-inch	60 00
1 Gamwell indicator	150 00
3 C. E. W. No. 1 switches	12 00
7 two-point switches	5 25
12 electric horse unhitchers (Coffee's patent)	950 00
	\$13,334 75

APPARATUS NOT IN USE.

1 electro mechanical chalk marker*	\$20 00
	\$ 20 00

BATTERY.

120 cells, No. 1 gravity battery	\$180 00
60 cells, LeClanche battery	30 00
	\$ 210 00

BATTERY MATERIAL.

200 lbs. blue stone	\$13 00
40 No. 1 gravity jars*	20 00
50 No. 1 gravity zincs*	20 00
30 No. 1 gravity zincs, old*	5 00
	\$ 58 00

Amount carried forward, \$13,622 75

Amount brought forward, \$13,622 75

MATERIAL.

18 miles of line, strung on poles, housetops, etc.	\$402 00
30 forty-foot cedar poles set	135 00
14 thirty-five-foot cedar poles set	56 00
79 twenty-five-foot cedar poles set	158 00
3,000 feet office cable	146 00
250 feet office cable*	16 00
2,300 feet office wire No. 14	25 00
300 feet office wire, No. 14*	1 40
32 two-wire cross-arms	4 70
395 pins, oak	9 81
175 brackets (oak)	10 50
49 brackets (iron)	25 00
963 Standard insulators	57 79
20 Standard insulators*	1 20
2 gross screws*	5 00
25 Pony insulators*	1 50
1 bar solder*	20
179 staples (box pipe)*	1 00
190 lagg screws*	4 00
1,124 lagg screws	22 00
1 1/2 miles No. 10 galvanized iron wire (old)*	5 00
Porcelain bobbins*	1 00
281 V iron brackets	331 00

\$ 1,419 10

TOOLS.

1 eighteen foot ladder	\$9 00
1 pair climbers	2 00
1 machine hammer	1 00
1 pair Buckley stretchers	5 00
1 strap and vise	3 00
1 pair Stubbs' pliers, 6-inch	1 50
1 bench vise	12 00
1 ratchet brace	2 25
2 car hits	75
2 ropes	1 80
1 work bench	9 00
2 battery brushes	50
1 thermometer	50

\$ 48 30

Amount carried forward, \$15,090 15

Amount brought forward, \$15,090 15

TOOLS—CONTINUED.

2 files	50
2 screw drivers	1 00
1 solder pot	2 50
1 solder iron	50
1 rubber funnel	25
1 coal-oil stove	3 00
1 gas stove	2 50
1 battery syringe	2 75
1 saw	2 00
1 chisel	50
1 monkey wrench	50
1 tape line	1 50
1 post hole digger	7 00
	<hr/>
	\$ 24 50

FURNITURE.

1 instrument table (long)	\$11 00
1 instrument table (short)	2 00
3 chairs	10 00
1 coal box	5 00
2 coal stoves	20 00
1 set battery shelves	10 50
2 gas fixtures	4 00
1 lead sink	9 00
1 coal scuttle	1 50
1 ink stand	1 00
1 pen rack, etc.	50
	<hr/>
	\$ 74 50
Total	<hr/>
	\$ 15,189 15

EXPENDITURES.

New apparatus	\$2,716 17
New material and labor	847 75
Battery material	170 54
	<hr/>
Total	\$ 3,734 46

WORK DONE.

I am pleased to say that all my recommendations of last year to your Honorable Body have been carried out. All our old line excepting two blocks was rebuilt where necessary.

On house tops the wire has been placed on iron brackets where practicable and all oak brackets put on with screws.

A new circuit arranged to take in the signal boxes alternately was built and the old circuit extended, the same requiring nine miles of insulated wire. The greater portion of the new line was put up on the Electric Light and Telephone Co's poles on V shaped irons high enough to carry our wire three feet above any of the other lines.

Ten new signal boxes have been placed in circuit, also one private box No. 28 for Henry Weinhard's brewery, corner N. 11 and C streets, making in all eleven boxes.

The others were located in districts where they were needed most, namely: 21st and S, 21st and E, 19th and J, N. Front and N, Weidler's Mill, 14th and Clay, 9th and Montgomery, 4th and Grant, 4th and Main, Corbett and Whiteaker sts., and Weinhard's brewery, corner 11th and C streets.

The shade trees have been trimmed where practicable, but the majority of trouble experienced from this source had to be overcome by moving the line to other streets and placing same upon the poles of the Postal Telegraph, Electric Light and Telephone Co's.

A three circuit Gamwell repeater has been placed in service, and the three circuits connected to same, also galvanometers and switches necessary for testing purposes.

Detail of repairs and construction of new line, is as follows: Old line from Cambridge Block on housetops to corner 2d and Washington, taken down and replaced with new line on Telephone Co's. poles along Third to Washington, to Second on Electric Light Co's. poles, on V brackets; old line from Ash and First along First to F taken down and replaced with new line on

top of Telephone Co's. poles on V brackets. Old line from First and F, along F to N, Thirteenth and G, replaced with new line insulated along F to Second on Electric Light Co's. poles; V brackets along Second to D on Telephone Co's. poles; V brackets along D to N. Fourteenth on Postal Tel. Co's. poles on pins; along Fourteenth to G on Postal Tel. Co's. poles, on pins; along G from Fourteenth to Thirteenth on E. L. Co's. poles on brackets. Loop from corner G and Thirteenth pulled up and all brackets and cross arms refastened to S and Thirteenth. This loop was divided into two circuits. New line, insulated galvanized iron wire, was constructed from S and Thirteenth, along S to Twenty-first on E. L. Co's. poles on V brackets. New box No. 42 put up at corner Twenty-first and S; new line insulated galvanized iron along Twenty-first to L to Nineteenth on E. L. Co's. poles; brackets and V iron brackets, along Nineteenth to G on Telephone Co's poles. Signal box 41 put up corner Nineteenth and J; new line insulated galvanized iron along G to Twenty-first along Twenty-first to B. New signal box put up corner Twenty-first and E. New line, insulated wire, along B to Fifteenth, Three's Engine house, on Telephone Co's. poles on V iron brackets, here connected to old line leaving old line from Thirteenth and G along Fourteenth to box 27 corner Fifteenth and B, for another circuit. Old line from No. 3 Engine house pulled up across the gulch to Morrison, along Morrison to corner Tenth box 3; new line, galvanized iron, from Tenth and Morrison along Morrison to Cambridge Block to office, and the old line from Fourth to Tenth and Morrison taken down.

Circuit No. 2. New line, insulated galvanized iron, No. 10 along Third to Ash on E. L. Co's. poles, V iron brackets, along Ash to First on Postal Tel. Co's. poles on pins, along First to New Market building. From New Market to Second, along Second to C on Telephone Co's. poles, along C to Fifth, along Fifth to D, box 17, where same was connected to one side of loop from old line on F, the other side of loop was taken down. New line, insulated galvanized iron, from F and Fifth to G, along Fifth to Sixth to I, to Seventh to N and Front; put box 18 on

corner Front and N. New line, insulated galvanized iron, along Front to Weidler's Mill; put box 43 corner Q and Front. New line, insulated galvanized iron, along Front to S, along S to Thirteenth, all on E. L. Co's. poles on V iron brackets. Connected to one side of loop corner Thirteenth and S, continued loop to old line along Fourteenth to B, same was pulled up and brackets tightened. New line, insulated galvanized iron, along B to H. Weinhard's Brewery, on E. L. Co's. poles, on V iron brackets, around the brewery on iron corner brackets to box 28; put in box 28 corner Eleventh and C. New line, insulated galvanized iron, along Eleventh to Stark to W. P. on Telephone Co's. poles, on V iron brackets, along W. P. on housetops to B, along B to E. P., to box 23, from box 23 along E. P. to Alder, uncovered wire. New line, insulated galvanized iron, from Alder and E. P. along Alder to Sixth on Telephone Co's. poles on V iron brackets, along Sixth to Madison, along Madison to Fifth, along Fifth to Mill, along Mill to box 5, on E. L. Co's. poles on V iron brackets. Connected to one side of old loop to box 5 and took down the other side. Pulled up the side in use and trimmed trees to clear it. New line connected to the other end of this wire cor. First and Mill, ran down Mill to Front, on E. L. Co's. poles, uncovered galvanized iron wire on V iron brackets along Front to Yamhill on Telephone Co's. poles on V iron brackets, along Yamhill to Cambridge Block on housetops on corner and side iron brackets.

Circuit No 3. Old line from Cambridge Block to corner Salmon along Fourth was pulled up and brackets fastened with screws. New line, covered galvanized iron, from corner Salmon and Fourth to Main, along Main to Fifth. Box 52 was put up on the corner of Main and Fourth. Old line along Main to E. P. was rebuilt on housetops and the old line taken down. Old line along E. P. to Jefferson was repaired, old poles taken down and new ones put up in place of same. One side of the long loop along Jefferson was taken down and the other side pulled up and refastened. Connected new line to same corner Jefferson and Twelfth, insulated galvanized iron wire, ran along Jefferson to

Fourteenth, along Fourteenth to Clay, on E. L. Co's. poles on V iron brackets; put up box 35 corner Fourteenth and Clay; continued insulated galvanized iron wire from corner Fourteenth and Clay, along Clay to Ninth, along Ninth to Montgomery; put in box 36 corner Ninth and Montgomery; continued insulated galvanized iron wire, along Montgomery to E. P. connected to old line corner Montgomery and E. P. Old line from cor. E. P. and Jefferson to corner E. P. and Montgomery was taken down. Old line along E. P., College, Seventh, Lincoln to Fifth and Grant, was pulled up and brackets refastened. New line, insulated galvanized iron, was run from corner Fifth and Grant along Grant to Fourth, along Fourth to Caruthers on E. L. Co's. poles and housetops on V iron brackets and corner iron brackets. Box 37 was put up corner Fourth and Grant. Old line along Fifth to Caruthers and along Caruthers, was taken down. Old line from Caruthers and Fourth along Caruthers to First was pulled up and refastened. One side of loop from Caruthers and First over First street bridge was taken down and the other side pulled up and refastened. New line, insulated, hard drawn copper No. 10 wire, was run along First from Mead to Whitaeker on E. L. Co's. poles and housetops, on V iron brackets; along Whitaeker to Corbett, along Corbett to Porter, along Porter to Hood, along Hood to Caruthers, along Caruthers to First, connected to old line corner First and Caruthers, on E. L. Co's. poles on V iron brackets. Put in box 51, corner Corbett and Whitaeker. Old line along First to Jefferson was repaired and pulled up in places where necessary and two blocks insulated wire put up over Stone's Block. New line, galvanized iron No. 10, was put up along First to Morrison on Telephone Co's. poles on V iron brackets and the old line on Front between these points taken down. Old line from First and Morrison, along Morrison to Cambridge Block, was in first class condition and did not require any repairs.

This completes the repairs to the circuits and the construction of new line. The drop wires in boxes 16, 25, 26, 15, 13 and 6 were re-run, and all the boxes were re-painted vermilion. Electric Protectors have been ordered and will be placed in circuit as soon as

practicable. The inside of boxes will be painted within the next month. Keys have been distributed to responsible persons in the immediate vicinity of the new signal boxes.

During the year 1888 some few repairs will be necessary, namely: re-running box cable, and two blocks of old line will have to be changed to a better position.

Our fire alarm system is now in first-class condition, and we are above and out of the way of all other lines for the present.

Our boxes are arranged so we can depend on the system to give in an alarm in case one of the circuits should be disabled.

RECOMMENDATIONS.

During the coming year I would recommend that three new signal boxes be purchased and located where needed mostly. Our boxes are too far apart and by adding three or four new boxes every year we can soon overcome this difficulty.

In the early part of the year the second suit brought by Robert Bragg against this City for alleged infringement of his patents was terminated. The case was fully tried and the decision of the court was, that the unhitching apparatus and the recorders now in use by us are not infringements in any particular of Bragg's patents.

In conclusion, I wish to tender my most sincere thanks to your Honorable Body and to the officers and members of the Fire Department for your earnest support; also to the officers and members of the several municipal departments, and to Messrs. P. F. Morey, Sup't. Electric Light Co., J. H. Thatcher, Manager Telephone Co., and J. Stronach, Manager, Postal Telegraph Co. and their employes, for the many courtesies shown me in the discharge of my duties.

Very respectfully,

A. J. COFFEE, Jr.,

Supt. F. A. Tel.

REPORT
—OF—
THE WATER COMMITTEE
OF PORTLAND, OREGON,
*Of Receipts and Expenditures for the Quarter
ending December 31, 1887.*

GENERAL ACCOUNT.

1887.	
Sept. 30. Cash in hands of Treasurer per report of this date	\$17,021 11
Dec. 31. Cash received from the Operating Department—Water rent,	<u>22,024 63</u>
Total to be accounted for	<u>\$39,045 74</u>

DISBURSEMENTS, (as follows).

GENERAL EXPENSE.

Voucher No. 161, Isaac W. Smith, cash paid by him for services of one man measuring flow of South Fork	\$ 10 50
“ “ 162 Philip C. Schuyler, services as clerk from June 30 to Sept. 30—3 mos.,	150 00
“ “ 163, A. Goodnough, bal. on contract for completion of dwelling house at Palatine Hill,	796 55
“ “ (part of) 164, Reimbursement of operating department for cost of warehouse, S. W. cor. Fourth and Columbia,	550 72
“ “ (part of) 165, Reimbursement of operating department for materials, etc., in dwelling at Palatine Hill,	28 00
“ “ 166, W. S. Ladd, cash paid for analysis of Bull Run water	75 00
“ “ 168, J. H. Day, pay and expenses getting sample of Bull Run water for analysis,	32 25
“ “ 171, Philip C. Schuyler, services as clerk from Sept. 30 to Dec. 31, 3 mos.,	<u>150 00</u>
Total,	<u>\$1,793 02</u>

LEGAL EXPENSE.

Voucher No. 167, A. H. Tanner, legal service in examining title to right of way and riparian rights on and from Bull Run,	\$500 00
---	----------

DISTRIBUTION SYSTEM.

Voucher No. 160, Reimbursement of operating department for expenditure on account extension of mains in September,	\$381 67
“ “ (part of) 164, same as above for expenditures same account in October,	338 67
“ “ (part of) 165, same as above in Nov.,	1,053 98
“ “ 169, same as above in December,	177 90
Total	<u>\$1,952 22</u>

INTEREST ON BONDS.

Voucher No. 170, City Treasurer, amount deposited to meet interest coupons due Jan. 1, 1888,	\$12,500 00
--	-------------

RECAPITULATION.

RECEIPTS.

General account,	\$39,045 74
----------------------------	-------------

DISBURSEMENTS, (General Account).

General expense,	\$1,793 02
Legal expense,	500 00
Distribution system,	1,952,22
Interest on bonds,	12,500 00
	<u>\$16,745 24</u>
Balance in hands of Treasurer,	<u>\$22,300 50</u>

OPERATING ACCOUNT.

Cash on hand and due from the city, Sept. 30, 1887,	\$12,016 41
---	-------------

RECEIPTS FOR 3 MONTHS.

Water rents,	\$24,065 66
Fees for tapping mains,	67 00
Fees for shutting off and turning on water,	124 50
	<u>24,257 16</u>
Total to be accounted for,	<u>\$36,273 57</u>

EXPENDITURES.

PALATINE HILL PUMPING STATION.

1,068 ⁸⁹² / ₂₅₄₀ tons of coal, @ \$6 30	\$6,731 02
Pay of Engineers, Firemen and other labor	1,221 50
Repairs to machinery,	312 22
Oil, waste and other supplies,	150 47
Pay of crew of barge P. W. W.,	713 25
Repairs and supplies to barge P. W. W.,	162 07
	<u>\$9,290 53</u>

HIGH SERVICE PUMPING STATION.

Fuel, coal,	\$766 50
Repairs,	14 82
Pay of Engineer and other labor,	253 50
Oil, waste, etc.,	450 00
	<u>\$1,039 32</u>

REPAIRS TO STREET MAINS.

Cost of repairs, breaks, etc.,	\$181 38
--	----------

LOOSE PROPERTY ACCOUNT.

1 copy Sanborn's Ins. Map of City,	\$65 00
200 1/2-inch Corporation cocks,	97 20
Water keys, hand truck, etc., etc.,	69 45
	<u>\$231 65</u>

OFFICE EXPENSE.

Rent of office, 3 months,	\$ 225 00
Salaries of clerk, inspectors, plumber and janitor,	1,473 00
Gas, fuel and incidentals,	40 75
	<u>\$1,738 75</u>

GENERAL EXPENSE.

Salary of Superintendent, 3 months,	\$750 00
Ground rent, warehouse building, 3 months,	15 00
Telephone, 4 months,	60 00
Printing and stationery,	68 70
Keeping and care of horse and wagon,	83 25
Labor, materials, etc., of general application,	495 17
	<u>\$1,472 12</u>

RECAPITULATION. (Operating Account.)

Receipts,		\$36,273 57	
DISBURSEMENTS.			
Palatine pumping station,	\$9,290 53		
High service,	1,039 32		
Repairs to street mains,	181 38		
Loose property,	231 65		
Office expense,	1,738 75		
General expense,	1,472 12		
Paid to general account Dec. 31,	22,024 63	\$35,978 38	
Balance, { Cash in bank,	95 19		
{ Due from the City,	200 00	\$295 19	

GENERAL ACCOUNT.

GRAND RECAPITULATION:

Showing receipts and disbursements from date of organization to Dec. 31, 1887.

RECEIPTS.

Advanced by W. S. Ladd, see 1st quar. report, '87,	\$20,000 00		
Proceeds of \$500,000 bonds, " " " "	539,300 00		
Rec'd from Operating dep't, " " " "	10,000 00		
" " " " 2d " " "	2,500 00		
" " " " 3d " " "	12,500 00		
" " " " 4th " " "	22,024 63		
Total receipts,		\$606,324 63	

DISBURSEMENTS.

W. S. Ladd, repayment of advance, see 1st quarterly report '87,	\$20,000 00		
---	-------------	--	--

OFFICE EXPENSE.

See 1st quarterly report, '87,	360 19		
--	--------	--	--

GENERAL EXPENSE.

Am't in report of March 31, '87,	\$4,387 88		
" " " " June 30, '87,	411 45		
" " " " Sept. 30, '87,	710 85		
" " " " Dec. 31, '87,	1,793 02	\$7,303 20	

LEGAL EXPENSE.

Am't in report of March 31, '87,	\$8,234 21		
" " " " Dec. 31, '87,	500 00	\$8,734 21	

RIGHT OF WAY AND RIPARIAN RIGHTS.

Am't in report of March 31, '87,	\$936 85		
--	----------	--	--

SURVEYS AND EXPLORATIONS.

Amount in report of March 31 '87,	\$7,850 73		
---	------------	--	--

DISTRIBUTION SYSTEM.

Am't in report of March 31, '87,	\$9,330 65		
" " " " June 30, '87,	21,481 66		
" " " " Sept. 30, '87,	1,735 18		
" " " " Dec. 31, '87,	1,952 22	\$34,499 71	

CLEARING AND ROADS.

Am't in report of March 31, '87,	\$125 00		
" " " " June 30, '87,	194 25		
" " " " Sept. 30, '87,	130 00	\$449 25	

HEADWORKS.

Am't in report of March 31, '87,	\$7,935 74		
" " " " Sept. 30, '87,	1,744 25	\$9,679 99	

SUPERINTENDENCE.

Am't in report of March 31, '87,	\$3,225 44		
" " " " June 30, '87,	1,249 00		
" " " " Sept. 30, '87,	183 75	\$4,658 19	

CITY WATER WORKS.

Amount in report of March 31, '87,	\$464,551 81		
--	--------------	--	--

INTEREST ON BONDS.

Am't in report of June 30 '87,	\$12,500 00		
" " " " Dec. 31, '87,	12,500 00	\$25,000 00	

Total disbursements,	\$584,024 13		
--------------------------------	--------------	--	--

Receipts as above,	\$606,324 63		
Disbursements as above,	584,024 13		

Balance in hands of Treasurer,	\$22,300 50		
--	-------------	--	--

After deducting from the total expenditures as above given 1st repayment of advance by W. S. Ladd,	\$20,000 00
And 2d amount paid for interest on bonds,	25,000 00
The remainder is	539,024 13
Represented by property as follows: City water works, as purchased from Portland Water Co. .	\$464,551 81
Additions and improvements made to same	34,499 71
Rights of Way and Riparian Rights on Bull Run, in- cluding cost of explorations and surveys, legal expenses for defending validity of the Act, obtain- ing titles, etc., and detailed plans for pipe line .	<u>\$39,972 61</u> <u>\$539,024 13</u>

HENRY FAILING, *Chairman.*

PHILIP C. SCHUYLER, *Clerk.*

Portland, Or., Dec. 31, 1887.