

*W. W. Hart*

# VILLAGE OF SOUTH ORANGE.

## ANNUAL COMMUNICATION

— OF THE —

## PRESIDENT

— AND —

# Reports of Committees

— FOR —

1893-1894.

Published by order of the Board of Trustees.

EDWARD F. CHURCH, President.

J. W. WILDEY, Clerk.

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1894.



## PRESIDENT'S MESSAGE.

SOUTH ORANGE, N. J., May 4, 1894.

### *Gentlemen of the Board of Trustees:*

This is the first time in the history of the village when two candidates for President have received the same number of votes. It was a happy solution of the tie that both candidates were willing to refer the legal questions to three prominent lawyers and thus settle by arbitration what otherwise might have become a lengthy controversy. The village is to be congratulated in having two candidates willing to allow the village interests to precede their own personal desires and the general acquiescence of the defeated candidate is proof that in any event the interests of the village would not suffer, no matter what the decision might be. While this question has been settled without difficulty, it would seem as though a revision of the charter was needed regarding the time of holding annual meetings and the duties of the old and new boards ought to be more clearly defined by legislation. There are a number of sections in the charter that need amending, and as the village increases in population they will become more clearly defined, and I have no doubt that our successors will find the way to correct errors or omissions in the charter as soon as they realize that corrections are needed. A detail of the work of the different committees is reported by the chairman of each committee, and I shall therefore only report in a general way on the work accomplished. As the village increases in population, wealth and prosperity, so the work of the Board increases, and I think it is safe to say that the work of a Trustee to-day is probably double what it was ten years ago. New streets, new roads, new sidewalks, double the number of lamps, the new water system, here, all tended to increase the duties of a Trustee.

The village finances, as shown by the report of the Treasurer, are in an excellent condition. The credit of the village has steadily improved in the last four years, our five per cent. bonds generally selling at a premium above most of the villages and townships near us. A great many miles of sidewalks have been laid in the last four years. The village has grown in every direction, property is increasing in value, and South Orange bids fair to take the lead of all the Oranges. In the last four years a water system has been introduced that is not surpassed in the State and on a basis that will certainly be a source of revenue to the village. In the last year the trolley railroad between Newark and the village has been introduced. The village receives a small compensation and a limited franchise was given the railroad, and the people are receiving a large benefit in reduced fares. While it is a pleasure to me to notice all the improvements that have gone forward, I cannot refrain from mentioning a number of the needed improvements that ought to be attended to in the near future. The sewerage of the village needs serious attention immediately. For the past three years the village has been in the clutches of the law, and if the suits could have been continued a few years longer it is a question if there



*Village of South Orange.*

would be money enough left in the sewerage fund to build one cesspool. As it is, after the Village Board has paid its suits and discharged its lawyers, I think they could probably go to work and have some system of sewerage established. If it cannot be done on the farm owned by the village, it can be sold if another plan can be found that could be used for that purpose, I trust that the new board will realize the great need of a system of sewerage in the village and give it their immediate attention. A public hall and quarters for the fire department are very much needed, and ought to be attended to with as little delay as possible. While South Orange avenue is no doubt the best place for this building, providing land can be purchased at a reasonable price, there are unquestionably other locations that can be found if property on the avenue is held too high for the purpose. I hope to see South Orange avenue widened and the sidewalk narrowed up nearly as far as Prospect street, at the expense of the railroad company, and thus make one of the finest streets in all the Oranges. The railroad crossings need attention, also the drilling of cars across South Orange avenue. The street in front of the depot ought to be macadamized and improved. Several fountains ought to be introduced in different parts of the village. We need more street lamps, we need more water pipes and the streets of the village ought to be sprinkled during the summer months. I have called the attention of this board several times in the last six months to the law expenses of the village. I need not go into detail regarding them. Lawyers may disagree as to the criminality or legality of certain bills, but there can be no difference of opinion amongst the taxpayers as to the bills being too exorbitant and too extravagant for this village to pay. I look with confidence to a new board who, I believe, will settle with the village counsel in a manner that will be satisfactory to the taxpayers.

My term of office terminates in a few days. I look back with satisfaction on whatever good work that was accomplished during my administration. It will soon be a matter of history. My successor needs and ought to receive the encouragement of every member of the new board, as well as every good citizen of the village. It is easy to oppose or criticize needed improvement, but if everyone interested in the welfare of the village will assist him in building up instead of opposing needed improvements, we shall soon see an increase in prosperity in every direction. The new President and the new board have my best wishes for their success, and the members of the old board my thanks for the courtesies extended to me during my term of office.

E. F. CHURCH,  
President.

1894-'95.

GOVERNMENT.

President.....	EUGENE V. CONNETT
Trustees {	.....HENRY A. MANDEVILLE
	.....WALTER I. MCCOY
	.....PHILIP H. CAMPBELL
	.....TIMOTHY BARRETT
	.....WILLIAM H. CLARKSON
	.....HENRY A. PULSFORD
Clerk.....	JOSEPH W. WILDEY
Treasurer and Collector.....	ROBERT A. HALLIDY
Counsel.....	JAMES MCC. MORROW
Water Superintendent and Collector.....	CHARLES J. BARRETT
Police—Justice.....	JOHN O'REILLY
Marshal.....	HENRY T. TRENCHARD
Sergeant.....	CHARLES H. BURKE
Fire—Chief.....	JOHN BARRETT



COMMITTEES, 1894-95.

Finance and Accounts.....	MCCOY, BARRETT, CAMPBELL
Streets and Highways.....	MANDEVILLE, CLARKSON, PULSFORD
Sewerage.....	BARRETT, PULSFORD, MANDEVILLE, CLARKSON
Lamps.....	BARRETT, CLARKSON, MCCOY
Water.....	CLARKSON, MANDEVILLE, CAMPBELL
Ordinances.....	MCCOY, BARRETT, CAMPBELL
Fire.....	BARRETT, MCCOY, CLARKSON
Police and Enforcement of Ordinances.....	MCCOY, PULSFORD, CAMPBELL
Licenses.....	MCCOY, PULSFORD, CLARKSON
Printing.....	CAMPBELL, BARRETT, MANDEVILLE
Rooms.....	MANDEVILLE, PULSFORD, CAMPBELL
Public Buildings.....	BARRETT, MANDEVILLE, MCCOY

REPORT OF FINANCE COMMITTEE.

VILLAGE OF SOUTH ORANGE, NEW JERSEY.

*Financial Statement of the Village of South Orange. Receipts and Disbursements from March 1, 1893, to and including March 31, 1894, (Thirteen Months).*

## RECEIPTS.

Balance March 1, 1893.....		\$ 2,017 65
Cash received for taxes, 1893.....		\$22,409 48
" " " 1892.....		834 64
" " " 1891 and prior.....		881 41
" " liquor licenses.....		1,200 00
" " from police justice fines.....		79 60
" " for rent of sewer farm.....		330 00

Cash received for laying stone sidewalks.....		\$27,752 78
" " " grading streets.....	1,240	49
" " " opening streets, benefits.....	2,271	61
" " " interes collected on taxes and assessments.....	6,104	73
" " " notes discounted.....	662	87
	27,676	69
DISBURSEMENTS		
Contingent Fund.....		\$6,509 17

## DISBURSEMENTS.

DISBURSEMENTS.		\$5,709 17
Contingent Expenses :		
Election expenses.		
Baker, Thomas C., assessor 1893.	\$79 00	
Rent of Council Room	136 20	
Printing and advertising	150 00	
Stationery, postage, etc.	572 91	
Taxes for 1892 and 1893 on Sewer Farm.	83 41	
Appropriation to Free Library.	205 11	
Coal, wood and janitor for Council room, room of Fire Department and office of Collector of water rates.	300 00	
Painting and repairing flag pole.	70 70	
Tax book and bills.	44 63	
Willey, J. W., sundries.	12 75	
County Clerk commission on license.	57 76	
Board of Health.	2 50	
Sundries.	150 00	
	92 83	

### Salaries.

Salaries.		\$1,957 80
Morrow, J. McC., counsel, 6 months.....	\$ 180 00	
Robertson, Alex., auditor, 4 months.....	33 33	
Wildey, J. W., clerk, 13 months.....	641 63	
Hallidy, R. A., treasurer and collector, 16 months.....	533 31	
	<hr/>	
Fire Department :		\$1,388 27
Decker, Wilson, rent for room .....	98 00	
Supplies, horse hire, rent, etc.....	417 52	
	<hr/>	
Advertising for bids for public building bonds..		\$515 52
		67 20
		<hr/>
		\$3,928 79



## Interest and Discount:

Interest on sewer bonds .....	\$1,250 00	
" " water bonds .....	1,975 00	
" and discount on notes, etc. ....	963 54	
		\$4,188 54

## Police Account:

Pay of police force .....	4,148 73	
O'Reilly, John, police justice .....	166 59	
Uniforms and sundries .....	212 97	
		\$4,528 29

## Lamp Account:

Lighting streets, 7 months, from Feb. 1 to Sept 1, .....	3,348 33	
Sundries .....	5 25	
		\$3,353 58

## Streets and Highways:

Broken stone .....	1,953 90	
Repairs, etc. ....	3,954 80	
		\$5,908 70

Total ordinary expenditures..... \$21,907 90

## Payments in Anticipation of Assessments for Grading Streets:

Ward place .....	769 22	
Berkeley avenue .....	125 75	
Mosswood avenue .....	294 75	
		\$1,189 72

## For Stone Sidewalks:

Ridgewood road .....	1,782 88	
Third street .....	574 60	
		\$2,357 48

## For Street Opening:

Irving avenue .....	5,200 00	
Mead street .....	2,095 11	
		\$7,295 11

Paid village notes..... 29,701 64

Leaving an unexpended balance of general account in bank..... 3,257 32

\$65,709 17

## WATER RENT ACCOUNT.

## RECEIPTS.

Balance March 1, 1893 .....	\$72 00	
Received from C. J. Barrett, collector, account taps, rents and meters .....	\$6,152 00	
Received from water plant account refund of amounts paid for water extension .....	1,595 95	
		\$7,747 95
		\$7,819 95

## DISBURSEMENTS.

Paid to Sinking Fund .....	\$1,667 95	
" Commonwealth Water Company .....	3,079 05	
" C. J. Barrett, Superintendent (13 months) .....	650 00	
" Sundry repairs, meters, etc. ....	2,086 72	
		\$7,483 72
Cash in Bank .....	336 23	
		\$7,819 95

## WATER PLANT ACCOUNT.

Balance March 1, 1893 .....	231 29	
Cash for sale of 5 bonds .....	5,000 00	
		\$5,231 29

## DISBURSEMENTS.

## Transferred by resolution of Board to Water Rent

Account amounts paid for water extension... \$1,595 95

Water main and sundries..... 1,800 58

Cash in Bank .....	\$3,396 53	
	1,834 76	
		\$5,231 29

## SEWER ACCOUNT.

Balance March 1, 1893..... \$6,662 71

## DISBURSEMENTS.

C. T. Barrett, service as Engineer..... \$2,163 75

Henry Young, legal expenses..... 150 00

Sundries..... 86 27

Cash in Bank .....	\$2,400 02	
	4,262 69	
		\$6,662 71

## RECAPITULATION.

Balance General Account March 31, 1894, in Bank... \$3,257 32

" Water rent account..... 336 23

" Water plant account..... 1,834 76

" Sewer account..... 4,262 69

\$9,691 00

## SINKING FUND ACCOUNT.

Cash received from water rent account..... \$1,667 95

" for interest to April 1..... 28 26

\$1,696 21

R. A. HALLIDY,  
Treasurer.

## ASSETS.

Water plant cost..... \$40,165 24

Sewer farm cost..... 11,854 00

Taxes uncollected for 1893..... \$3,090 52

" " 1892..... 2,011 33

" " 1891 and prior..... 8,211 88

\$13,313 73

Property bought for unpaid assessments..... 2,872 19

Expenditures on Third street..... 1,776 25

Lock up..... 1,000 00

Street lamps..... 5,320 00

Safe, maps, furniture, etc..... 300 00

Due from street grading assessments..... 3,224 03

Due from stone sidewalks assessments..... 5,093 06

Due from street opening assessments..... 775 75

9,092 84

Cash in Banks..... 9,691 00

Cash in Banks Sinking Fund for water bonds..... 1,696 21

\$97,081 46

## LIABILITIES.

Village water bonds..... \$42,000 00

Village sewer bonds..... 25,000 00

Bills payable (Village notes)..... 6,442 17

Unpaid damages on streets..... 1,401 21

Due village Counsel..... 180 00

Due for rent of council room..... 100 00

Due Citizen's Gas Light Company (from Sept. 1, 1893, bill not rendered) about..... 3,000 00

\$78,123 38



*To the Board of Trustees of the Village of South Orange:*

Your committee on finance and accounts herewith submits the financial statement of the village for the year ending March 31, a period of thirteen months. In compliance with the village charter, the statement was published on the 3d inst., in The Newark Evening News. It was also inserted in The South Orange Bulletin of the 7th inst.

The year closes with a balance of \$3,257.32 at the credit of general account. Against this, however, there are unpaid bills (mostly for lighting the streets) to the amount of about \$3,300.00. On the other hand, a village note for \$1,875 fell due and was paid March 28, and a renewal note for the same amount reached your committee too late to go into last year's account. The actual state of the general account at the end of the fiscal year is, therefore, as follows:

Cash in Bank.....	\$3,257.32
Note on hand \$1,875.00 less discount on same, say.....	1,852.00
	\$5,109.32
Less unpaid bills, say.....	3,309.32
Leaving a balance of.....	\$1,800.00

or about \$500 more than the net balance carried over from the previous fiscal year. Bills payable, on the other hand, should, of course, be augmented by \$1,875.00, and now aggregate \$8,317.17, all of which represents amounts assessed or to be assessed for opening and grading of streets, and laying of stone sidewalks. Good progress has been made during the year with the collection of such assessments, more than \$9,600.00 having been received, while the payments since February 28, 1893 for new improvements and awards to property owners, amount to nearly \$11,000.00.

The water sinking fund account now amounts to \$1,696.21, to which should be added \$336.23, being the excess of water rents over the cost of maintaining the water department. The balance at the credit of the water plant account, \$1,834.76, will soon be paid out for work already authorized, and it will probably be necessary to issue more bonds to pay for additional water-pipe, etc.

Your committee would recommend that the sinking fund be invested in \$2,000 of such bonds. In the opinion of your committee, however, any bonds thus acquired ought not to be cancelled, but should be held by the commissioners of the sinking fund, and the interest when due should be paid into the fund. This is not simply a matter of book-keeping; for it would certainly be better to leave the sinking fund in the bank drawing interest at 2 per cent. (the rate now received) than to use it for the purchase of village bonds to be cancelled, thereby stopping all increase from interest. It is better for the village to pay interest on bonds into its own sinking fund, thus increasing the same, than to pay the same interest to private holders of its bonds.

The spirit of the law seems to demand the establishment of a productively invested fund for the ultimate redemption of the water bonds, and to borrow from that fund for the purpose of extending our water system without paying interest on the money so used would, we believe, to some extent, defeat the object of the statute

C. EDWARD BILLQVIST,  
TIMOTHY BARRETT,  
WALTER I. MCCOY.

April 16, 1894.

Committee on Finance and Accounts.

## REPORT OF STREETS AND HIGHWAYS COMMITTEE.

*To the President of the Village of South Orange:*

DEAR SIR: The Streets and Highways Committee beg leave to submit the following report of work done upon the streets of the village for the past year:

## STREETS GRADED.

Ward street, from South Orange to Irvington avenues.

## BROKEN STONE.

Broken stone has been purchased by the village and placed as follows: Grove road, 1,900 feet; Mosswood avenue, 175 feet; Strathern avenue, 800 feet; Berkeley avenue, 271 feet; Rynda road, 1,300 feet.

The macadamizing of these streets, with slight repairs upon other streets, where stone was placed up to this spring, when stone was used on the following named streets:

Irvington avenue, 23 loads; Prospect street, 15 loads; Cottage street, 7 loads; Tichenor avenue, 7 loads; Academy street, 20 loads; Valley street, 11 loads; Scotland street, 20 loads; Vose avenue, 25 loads; Raymond avenue, 8 loads; Montrose avenue, 10 loads; Ridgewood road, south, 21 loads; Third street, 10 loads; Mosswood avenue, 8 loads; Strathern avenue, 5 loads; Bowers place, 7 loads

## BLUE STONE SIDEWALKS.

Ridgewood road, east side, from Montrose avenue to South Orange avenue.

Third street, from Ridgewood road to Prospect street, south side.

Roland avenue from Valley to Prospect street, south side.

## STONE CROSSWALKS, NEW.

Rynda road and South Orange avenue.

Valley and Third street.

Church and Third street.

Church and Third street.

Roland avenue and Academy street.

## STONE CROSSWALKS RELAID.

Several of the village crosswalks were more or less repaired during the year. The work upon each was slight and no account kept, as it was done as a part of the work when broken stone was used.

## NEW TILE CULVERTS, REPLACING OLD STONE.

Fourth street and Valley.

Third street and Valley.

Second street and Valley.

Second street and Valley.

First street and Valley.

First street and Valley.

Academy and Second.

Academy and Second.

Rynda road and South Orange avenue.



## CULVERTS REPAIRED.

Sloan street, between First and Second.  
 South Orange avenue and Ward street.  
 Montrose avenue and Vose avenue.  
 Church street and Third street.  
 Church street and Third street.

There have been set during the year ninety-seven monument stones, which nearly finishes that work in the village.

The work enumerated, with the usual cleaning up of the principal streets in the fall, is about the summary of the work done during the year.

The Committee would advise the relaying of several thousand feet of the older sidewalks, they having become so sunken as to form water courses in wet or snowy weather. Also, extend the twenty-four foot culvert at the junction of Irvington and South Orange avenues to the east side of Academy street, making the entrance to Academy street passable, which can hardly be said of it at present.

This much needed improvement would have been done the present year by the committee had it not been thought that the moving back of curblin by the railroad company this spring might necessitate its being relaid.

Respectfully submitted,

EDGAR M. TAYLOR,

W. H. CLARKSON,

H. A. MANDEVILLE,

Committee on Streets and Highways.

## REPORT OF COMMITTEE ON LAMPS.

SOUTH ORANGE, April 23, 1894.

*To the President and Board of Trustees of the Village of South Orange:*

GENTLEMEN: Your Committee on Lamps beg to report that at the beginning of the fiscal year, March 1, 1893, there were 289 lamps in the streets of the village. Since that date 21 new lamps have been added, as follows: Seven on South Orange avenue, six on Irving avenue, one on First street, one on Fourth street and six on Hamilton road, Kingman road and Stanley avenue, in the "Syndicate" property. This makes the total number owned by the village at this date 310, not including the large lamp at the railroad depot, which the village does not own.

Four lamps were ordered to be placed on Meeker street two years ago, but as yet the gas company has not seen fit to comply with the request.

As a number of new lamps will be needed this year, your committee suggests for the consideration of the new Board of Trustees, when making up the appropriations that \$7,000 be raised for lighting streets, and an appropriation of \$500 from the license fund.

This amount was raised last year, and will be found necessary to illuminate the new streets that have been recently opened.

TIMOTHY BARRETT,

W. H. CLARKSON,

Committee on Lamps.

## REPORT OF WATER COMMITTEE.

SOUTH ORANGE, April 23, 1894.

*To the President and Board of Trustees:*

GENTLEMEN: Your Committee on Water beg leave to report that the operation of the department during the past year has been entirely satisfactory.

The report of the Superintendent, Charles J. Barrett, which is herewith annexed, presents in detail the work accomplished during the year, also showing the receipts from all sources, tables of consumption and other matters of interest in connection with the system.

The total receipts for the year, as reported by the collector, were \$6,130.51, and the disbursements for all purposes water, meters, services, salaries, etc., \$5,790.01, leaving a net balance for the year of \$340.50. The sum of \$717.75 was expended for the purchase of meters and \$275 received from sales, making the net expenditures for that purpose \$442.75.

The Finance Committee of 1892-93 recommended, after consultation with the Village Counsel, that such expenditures be defrayed from the sale of bonds, and consequently \$1,595.95 was transferred from the water fund account to the water rent account, as shown in the Treasurer's report for the current year. If this practice is to be continued, the sum of \$442.75 should be credited to the water rent account, which would increase the balance for the year to \$783.25.

The department has continued the practice of setting meters in all houses, but the results are not as satisfactory as expected, and the revenues have not been proportionately increased.

This seems to be primarily due to the style of meter set at the introduction of the system, which has not proved to work successfully under all conditions. A meter of better design and results has been in use during the present year, and the revenue from such services metered is much more favorable.

Your Committee is satisfied that to measure the water and charge proportionately is the best course to pursue under proper conditions, and see no reason to advise a change in this regard.

The consumption during the past year was 30,790,362 gallons, costing \$3,079.05, and the total revenue from water rents was \$4,701.62 or at the average rate of 15 cents per 1,000 gallons. Of course, this includes the water used at fires, for flushing hydrants, loss from breaks, etc., which, in all, is a quantity of considerable magnitude.

In April, 1893, the Board of Trustees authorized the issue of water bonds to the extent of \$5,000 for the extension of the system and the purchase of meters. A small extension was made on Comstock place and a four-inch pipe was laid through Rynda road, and for a short distance up South Orange avenue, from the corner of that road, to supply two houses.

In addition to this, the four-inch pipe laid by Messrs. Turrell and Jayne three years ago, on Turrell avenue, under an agreement with the village, was paid for at cost and became village property.



The preceding Board of Trustees decided to purchase the four-inch pipe on Ridgewood road from John Firth, and the contract has since been consummated, and the pipe connected with our main.

This pipe has not yet been paid for, although there is sufficient money on hand for that purpose.

The expenses for mains, etc., for the year were \$1,800.58, and the amounts refunded to the water expense account for meters \$1,595.95, leaving a net balance in the treasury of \$1,834.76.

On account of the demand for extensions in various parts of the village, the sale of two more bonds of \$1,000 each has been ordered, which sum is to be utilized in laying pipe in the following streets:

Irvington avenue, from Bowers place to the village line, six-inch pipe; four-inch pipe on Ward place, its entire length; on Warwick avenue, 600 feet northwesterly from Centre street; on Cumberland road and up South Orange avenue to West End road; and a six-inch pipe on Prospect street, from Roland avenue to the village line.

The Prospect street pipe is designed to supply an extensive district outside of the village, through which pipes are already laid, and the water will be sold to the South Orange Heights Water Company for 20 cents per 1,000 gallons, which special rate has been fixed by the Board of Trustees.

Applications for extensions have also been made from residents or property owners on Irving avenue, Turrell avenue and Raymond avenue, but to supply these demands another issue of bonds must be authorized.

The streets without water mains are now comparatively few, and if similar progress is made each year it will not be long before the whole village will enjoy the fruits of the system.

The question of paying for the pipes in the Syndicate property referred to a year ago, is still unsettled. It is claimed that there was an understanding when that section was annexed to the village that the pipes would be purchased, but as yet no tangible evidence has been shown to support the assertion.

The pipe laid by Messrs. Turrell and Jayne, and recently purchased by the village, was distinctly authorized by the Board of Trustees, as reference to the minutes will disclose; the pipe laid by Victor Schaller was in accordance with a resolution of the Board of Trustees, which bound the village to accept the pipe under certain conditions, to be hereafter fulfilled, but investigation of the proceedings of the Trustees has up to this time disclosed nothing in reference to the purchase of the Syndicate pipes which could be used in support of the claim.

In view of these facts, your Committee recommend that no action be taken toward the payment of this claim, as it would be used as a precedent in similar cases where water mains have been laid in private streets for speculative purposes.

All of which is respectfully submitted.

W. H. CLARKSON,  
H. A. MANDEVILLE,  
Water Committee.

## REPORT OF SUPERINTENDENT OF WATER DEPARTMENT

SOUTH ORANGE, April 21, 1894.

To W. H. Clarkson, Esq., Chairman Water Committee:

Sir: The Superintendent and Collector of the Water Department respectfully submits his third annual report, showing the condition and operation of the system for the year ending March 31, 1894.

The receipts from taps and rents for the year were \$5,666.62, and the disbursements, exclusive of meters, \$4,814.62, showing a balance for the year of \$852. The sum of \$975.39 was expended for the purchase, setting and repairs of meters, and \$463.89 received for sale and rent of same, and with these items the complete financial report is as follows:

### RECEIPTS.

From taps and connections.....	\$ 965 00
Schedule water rates.....	\$ 690 53
Meter rates.....	3,503 38
Special rates.....	508 21
Total for water rents.....	\$4,701 62
From Rent of meters.....	\$165 89
Sale of meters.....	275 00
Setting of meters.....	18 00
Repairing of meters.....	5 00
Total for meters.....	\$463 89
Total receipts for year.....	\$6,130 51

### DISBURSEMENTS.

Paid for making taps.....	\$987 16
Repairing connections.....	42 50
Repairing plant.....	22 25
Tools and repairs.....	5 66
Salaries and office expenses.....	678 00
Meters bought.....	717 65
Setting meters.....	195 73
Repairing meters.....	62 01
Water.....	3 079 05
Total disbursements.....	\$5,790 01
Balance.....	\$340 50

The receipts for water rents exceed the receipts of the previous year \$2,350.57, or 40 per cent., while the amount paid for water exceeds that of the previous year by 16 per cent., but the comparison is not entirely fair, as the report of 1893 showed few payments for the first quarter of that year.



The sale of water by meter, as established by the Trustees in 1892, has been continued, and with few exceptions the services are metered throughout the village. Experience of two years has demonstrated the value of this practice, if the instrument for measuring the water is a perfect one under all conditions, as it has checked the waste in many houses, and prevented a large consumption in sprinkling lawns, etc., during the summer months.

But the style of meter first set by the village has proved to be impracticable in many houses supplied indirectly through tanks, and the revenues show a diminution since their introduction.

The meters should have a general and thorough inspection, and those found defective should be replaced in order to attain the best results and get full value for the water delivered.

The entire *net* cost of meters supplied, including setting and repairs, since their introduction, is \$2,248.10, and the village has received rent to the amount of \$195.11.

The total number set in the village is 271, of which 116 are owned by the consumers.

The styles and sizes of these are shown in Table IX, annexed to this report

#### MAINS.

At the date of the last report of the Superintendent, the number of miles of pipe laid in the village was 11.04, of which 8.81 was laid or owned by the village

The system has been extended during the year by laying a four-inch pipe through Rynda road and for a distance of 369 feet on South Orange avenue, from the corner of the former street, in all 1,770 feet. The entire cost of this work, including three gates and one hydrant, was \$923.02, the work being done by Ludwig Batt under contract.

The four-inch pipe on Ridgewood road, running north from the Orange main, which was laid some years ago by John Firth, has been purchased by the village and was connected with our system in August, 1893. This pipe is 1,833 feet in length, and cost, including repairs, but not the expense of connecting with our system, \$788.19.

The branch on the special for extending the main at the corner of Ridgewood road and South Orange avenue is eight inches, as a pipe of that dimension would eventually be necessary to supply that section of the village. In order to utilize this in the future, an eight-inch pipe was carried across the avenue and a four-inch branch extended to connect with the pipe recently purchased.

When a larger pipe is to be laid, it can be extended without disturbing the present connection.

From this street a four-inch pipe has been laid up Tillou road about 2,000 feet, by Wood, Harmon & Co., to supply the property recently opened in that locality, and it is the intention of the owners to further extend this pipe during the present year.

The four-inch pipe laid by Messrs. Turrell and Jayne on Turrell avenue in 1891, under an agreement by which the village would purchase it in two years, has been so purchased at its cost, \$768.80. It comprises 1,380 feet of four-inch pipe, two valves and one hydrant.

The total length of all sizes in full to date, owned by the village, is as follows:

	10-inch.	8-inch.	6-inch.	4-inch.	Miles.
Before 1893.....	7,366.5	5,382	8,316	25,479	8.81
Laid 1893.....	.....	51	.....	5,015	.96
Total.....	7,366.5	5,433	8,316	30,494	9.77

As there are 2.41 miles of private pipe in the village, the entire distribution system March 31, 1894, is 12.18 miles.

The South Orange Heights Water Company has also laid 2,700 feet of four-inch pipe on Prospect street, South Prospect street and Delaware avenue, outside of the village limits, and the village has agreed to furnish water to the company for 20 cents per 1,000 gallons.

To connect with this pipe a six-inch main will be laid from Roland avenue at the corner of Prospect street to the village line, and a contract for this work has been awarded to J. L. Kitchell.

This main may also be utilized to supply the two streets running west-erly from Prospect street, which will probably be built up in a few years.

A contract has been awarded to George P. Olcott to lay a six-inch pipe on Irvington avenue, from Bowers place to the village line, and four-inch pipes on Ward place and Warwick avenue, and work is now in progress on these streets.

In accordance with the recommendation of the last Water Committee, the Trustees have decided to lay a pipe up South Orange avenue to West End road, and a contract for the work has been given to Ludwig Batt.

Nearly 12,000 feet of public and private pipe will be added to the system within a month, making in all about 14.45 miles.

Three years ago the first report of the Water Committee stated that the number of miles of pipe laid or owned was 5.83, and the present report shows a gratifying increase in the plant since that time.

Applications have been made during the year for extensions on Irving avenue, Turrell avenue, Charlton avenue and Raymond avenue. Of these applications Irving avenue has the prior claim, as residents of that street petitioned two years ago for an extension, and it has three houses which would take a supply immediately.

#### HYDRANTS AND VALVES.

One Matthews hydrant has been set on South Orange avenue, above Cumberland road, and the total number in the village is now 81, of which 63 are on lines owned or laid by the village. No repairs were found necessary during the year and no hydrants were frozen. A coat of paint would improve their appearance and serve to keep them in good condition, and this should be done during the summer.

Four four-inch and one eight-inch valve have been set by the village, and two four-inch valves on Tillou road by Wood, Harmon & Co.

The total number of valves in the system is now 112, of which 17 are on private pipes.

#### REPAIRS.

No leaks or breaks have been reported on the mains of the village during the year.

After the "Firth" pipe was connected the increased pressure caused two breaks on that extension, which were repaired by the use of sleeves.



The cost of this work was deducted from the price of the pipe, in accordance with the terms of the resolution adopted by the Trustees.

A few repairs were found necessary in the service pipes, and \$42.50 was expended for that purpose.

## SERVICES

The number of taps shown by last year's report was 262, and 66 have been made since that time. Of these, three are one-inch, seven are three-quarter inch, and fifty-six one-half inch. The number of feet of lead service pipe and sizes are as follows:

	½-inch.	¾-inch.	1-inch.	Total.
Laid before 1893....	3,815	124	231 5	4,170 5
Laid in 1893.....	1,478.5	148.5	113.5	1,540.5
	<hr/> 5,293.5	<hr/> 272.5	<hr/> 345 0	<hr/> 5,711.0

In addition to this, the village laid 357 feet of three-quarter inch iron pipe to supply a house outside the village, making a total of 6,068 feet owned by the village in the streets.

## CONSUMPTION

Water is now supplied to 286 dwelling houses, 68 stables, 19 shops and stores, 4 schools, 4 churches, 2 livery stables, 1 mill, 1 college and 1 club house.

There are also fifteen buildings not yet finished for which taps have been made.

The total amount of water delivered to the village from March 6, 1893, to March 6, 1894, as shown by the average readings of the company and village meters, was 31,562,375 gallons, or 89,350 gallons per day, which is 4,326,155 gallons, or about 16 per cent., in excess of the previous year.

The average daily consumption is shown by Table VII, and the comparative daily consumption for each month since the establishment of the system is shown by Table VIII, both of which are annexed to this report.

The South Orange Field Club used for flooding its grounds for skating in December and January 1,476,485 gallons, which accounts for the heavy consumption during these months.

The present quarters of the Superintendent are entirely inadequate for the proper carrying on of the work of the department. Office facilities are not alone needed, but ample opportunities should be afforded for storing supplies, meters, tools and the surplus pipe of the village.

Although we have been fortunate during the past years in not having serious breaks in our mains, such accidents may occur at any moment, and we lack the proper tools to make such repairs with expedition and despatch.

Some provision should be made for the testing of meters before setting, and for repairing them, and for this purpose a water tap is required.

In this case a guage could be placed in the office to note the pressure maintained in the pipes, and this would also be of value in determining the presence of a leak in the system.

In conclusion, I wish to acknowledge the courtesy and consideration on the part of the Water Committee and the Board of Trustees which has characterized our intercourse during the preceding year, and thereby facilitated the progress of the department.

Detailed reports of receipts and payments to Treasurer, tables showing location and lengths of pipe, public and private, hydrants and valves, pipe laid during the year, statistics of consumption and other matters pertaining to the maintenance and operation of the system, are herewith presented, all of which is respectfully submitted for your consideration.

CHARLES J. BARRETT,  
Superintendent and Collector.

## FINANCIAL.

Receipts from taps and connections.....	\$ 965 00
From water rents—	
a. Schedule rates.....	\$ 690 03
b. Meter rates.....	3,503 38
c. Special rates.....	508 21
	<hr/> \$4,701 62
From meters—	
d. Meters sold.....	\$275 00
e. Rent of meters.....	165 89
f. Setting meters.....	18 00
g. Repairing meters.....	5 00
	<hr/> \$463 89
Total receipts.....	\$6,130 51
Balance March 1, 1893.....	126 72
	<hr/> \$6,257 23
Paid R. A. Hallidy, Treasurer.....	6,152 00
Balance in hands of Collector March 31, 1894.....	\$105 23

## PAYMENTS TO TREASURER.

1893.	
March 15.....	\$197 00
April 19.....	600 00
May 15.....	775 00
June 14.....	800 00
July 17.....	400 00
August 19.....	175 00
September 18.....	50 00
October 16.....	50 00
November 20.....	875 00
December 16.....	1,300 00
1894.	
January 13.....	480 00
February 19.....	200 00
March 19.....	250 00
Total.....	<hr/> \$6,152 00



TABLE I.

WATER PIPE LAID IN 1893-1894 BY VILLAGE.

Street.	Location.	No. Feet.....	Size in inches.	Gates .....	Hydrants.....	Cost.
Rynda road.....	N. from Ridgew'd r'd.	1,401	4	3	..	\$ 712 11
South Orange avenue	W. from Rynda road..	369	4	..	1	210 91
Ridgewood road.....	N. from S. Orange av.	83	4-8	2	..	.....
Total.....		1,853		5	1	\$ 923 02

WATER PIPE LAID IN 1893-1894 BY PRIVATE PARTIES

Street.	Location.	No. Feet.....	Size in inches.	Gates .....	Hydrants.....	Cost.
Tillou road.....	NW from Ridgew'd rd	2,000	4	2	..	.....
Total.....		2,000		2	..	.....

TABLE II.

FIRE HYDRANTS SET BY VILLAGE, 1893.

Hydrant No	Street.	Location.	Style.	Pressure, lbs.
81	South Orange avenue	250 ft. W. Rynda road	Mathews.	65

SUMMARY.

Owned by Village.....	63	Mathews pattern .....	62
Owned by private parties.....	18	Ludlow pattern .....	14
		Beaumont pattern.....	5
Total.....	81	Total.....	81

TABLE III.

GATES SET BY VILLAGE, 1893.

Street.	Location.	Size in Inches.	No. Set.
Rynda road .....	N. line of Ridgewood road...	4	1
" " .....	N. line of Cumberland road...	4	1
" " .....	S. line of S. Orange avenue...	4	1
Ridgewood " .....	N. line of S. Orange avenue...	8	1
" " .....	30 ft. N. of S. Orange avenue.	4	1
" " (purchased)	1,820 ft. N. of S. Orange avenue	4	1
Total.....			6

GATES SET BY PRIVATE PARTIES, 1893.

Street.	Location.	Size in Inches.	No. Set.
Tillou road.....	NW. line of Ridgewood road..	4	1
" " .....	1,600 ft. NW Ridgewood road.	4	1
Total.....			2

SUMMARY.

	Public	Private.	Total.
Gates set previous to 1893.....	89	15	104
" " in 1893.....	6	2	8
Total.....	95	17	112

RECAPITULATION BY SIZES.

	Size in inches.				Total.
	10	8	6	4	
Gates owned by village.....	4	7	9	75	95
" " Private parties....			3	14	17
	4	7	12	89	112



TABLE IV.

WATER PIPE, GATES AND HYDRANTS OWNED BY VILLAGE,  
MARCH 31, 1894.

STREET.	PIPE, LENGTH IN FEET.				GATES.				Hy- drants.
	10 in.	8 in.	6 in.	4 in.	10 in.	8 in.	6 in.	4 in.	
Academy Street.....				1969.5				3	5
Bowers Place.....				1653				2	2
Charlton Avenue.....				267				1	
Church Street.....				776.5				2	1
Comstock Place.....				286				1	
Cottage Street.....				861				2	
Rynda Road.....				1401				3	
First Street.....				900				4	1
Fourth Street.....				839				3	
Irvington Avenue.....		610.5	1185	25		1	1		3
Meeker Street.....				1046				2	2
Milligan Place.....				449					
Montrose Avenue.....			1815	3677			2	4	5
Prospect Street.....		2065		28		3			4
Railroad Place.....				336					
Ralston Avenue.....				986				1	1
Raymond Avenue.....				990					1
Ridgewood Road.....	3443.7	51		2432	2	1		9	7
Riggs Place.....				1319				3	2
Roland Avenue.....				1226.5				4	1
Scotland Street.....		3156.5		1100		2		2	4
Second Street.....				1364				6	1
South Orange Avenue..	3922.8		2382	527	2		3	8	12
South Third Street.....				646				2	
Taylor Place.....				360				2	1
Third Street.....				1305.5				5	1
Tichenor Avenue.....				782.5				2	1
Turrell Avenue.....				1380				1	1
Valley Street.....			2934	624			3		5
Vose Avenue.....				938				2	2
Total.....	7366.5	5433	8316	30494	4	7	9	75	63

TABLE V.

PRIVATE WATER PIPE IN VILLAGE WITH NUMBER OF GATES, HYDRANTS AND  
DOMESTIC CONNECTIONS, MARCH 31, 1894.

Street.	Laid by.	Length in Feet.		Gates.	Hy- drants.	Con- nect- ions.
		6-inch.	4-inch.			
Centre street.....	Montrose Park Co....	2 365	26	3	4	13
Hartford road.....	" " " " " "		1,195.5	2	3	11
Hamilton road.....	" " " " " "		805.5	2		1
Kingman road.....	" " " " " "		822	1	2	4
Stanley road.....	" " " " " "		808	1	2	2
Montrose avenue...	" " " " " "		1,210	1	2	5
West Montrose av..	P. Scherrer.....		715	1	2	2
Lester place.....	" " " " " "		503	1	1	1
Franklin place.....	" " " " " "		696	1	1	1
Lennox avenue.....	Victor Schaller....		940	1		1
Lennox place.....	" " " " " "		443	1	1	
Tillou road.....	Wood, Harmon & Co..		2,000	2		2
Total.....		2,365	10,164	17	18	44

## SUMMARY.

	10-inch.	8 inch	6-inch.	4-inch	Total ft.	Miles.
Village pipe.....	7,366.5	5,433	8,316	30,364	51,479.5	9.73
Private pipe.....			2,365	10,164	12,529	2.41
Total.....	7,366.5	5,433	10,681	40,528	64,008.5	12.14



TABLE VI.

LENGTH AND SIZES OF PIPE IN VILLAGE.

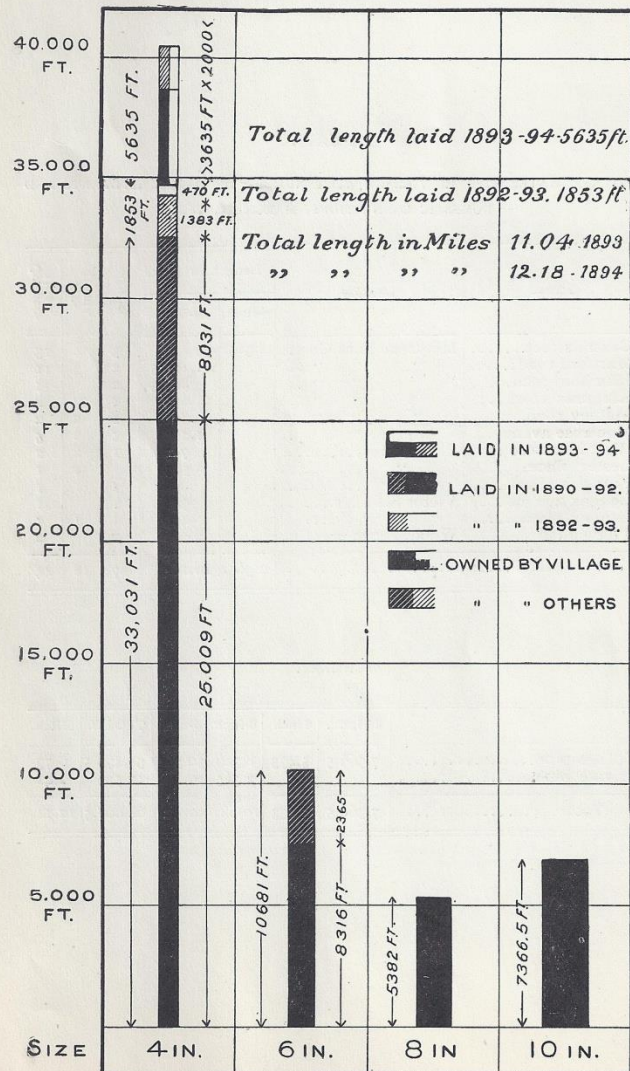


TABLE VII.

CONSUMPTION.

MONTHS.	GALLONS PER MONTH.		Gallons per day.	No. Taps Supplied.	Gallons per day Each Tap
	Company Meters.	Village Meters.			
1893					
March 6, to April 3...	1,665,600	1,603,325	58,363	262	223
April 3, to May 1.....	1,903,950	1,923,750	70,883	274	258
May 1, to June 5.....	2,557,875	2,472,500	71,862	281	255
June 5, to July 3.....	1,158,675	2,559,900	102,390	288	355
July 3, to Aug. 7.....	Readings discarded*	3,646,375	104,188	294	354
Aug. 7, to Sept. 6....	3,336,225	111,207	301	360	
Sept. 6, to Oct. 2....	2,902,725	2,198,975	98,109	302	321
Oct. 2, to Nov. 6....	2,998,725	3,079,950	86,839	309	281
Nov. 6, to Dec. 4....	2,357,925	2,443,575	85,741	311	275
Dec. 4, to Jan. 1.....	3,014,325	3,134,625	113,870	314	362
1894					
Jan. 1, to Feb. 5.....	3,106,875	3,223,725	90,437	317	285
Feb. 5, to March 6....	2,367,150	2,485,000	83,661	318	263
Total .....	24,033,825	32,108,125	89,350	Average for year	

\* Meter No. 8168 failed to register during July and August, and the readings of the Company's meters were discarded by mutual consent. The daily consumption for June, July and August as given above, is by village meters.

Estimated population to date .....	3,800
" " on pipe line.....	3,300
Estimated population supplied .....	2,500
Total gallons supplied March 6, 1893, to March 6, 1894. ....	31,562,375
Gallons per day to each consumer. ....	36
" " " inhabitant.....	23



TABLE VIII.

AVERAGE DAILY CONSUMPTION FOR EACH MONTH, FROM MARCH, 1891, TO MARCH, 1894.

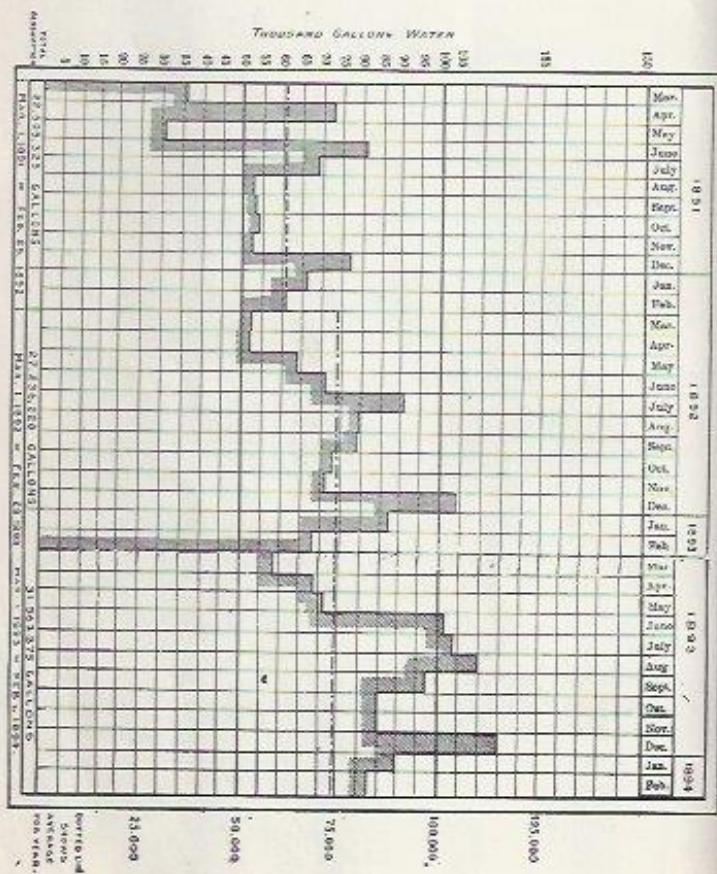


TABLE IX.

[illegible]



## REPORT OF CHIEF OF FIRE DEPARTMENT.

SOUTH ORANGE, April 21, 1894.

*To the President and Board of Trustees of the Village of South Orange:*

GENTLEMEN: In compliance with the requirements of the resolutions governing the Fire Department, I respectfully submit the following annual report, together with such recommendations for your consideration as will tend to promote the efficiency of the department and best serve the interests of the citizens of South Orange.

During the past year 500 feet of single jacketed hose has been purchased, and a few supplies, such as lanterns, etc.; and the apparatus of the department is as follows:

One hook and ladder truck.

Two hand hose carts.

1,500 feet of 2½-inch single jacketed hose.

Three hundred feet of the hose is in poor condition, owing to the lack of facilities for drying it after use at a fire, and the truck is in poor condition, as it is not stored in a place sufficiently protected from the weather.

Motives of economy as well as prudence demand that suitable provisions be made for housing the apparatus.

The department is now fairly equipped to cope with a conflagration, but its members are sorely handicapped by the primitive means of sending an alarm when a fire is discovered.

This is usually done by securing the use of the nearest telephone and calling up a subscriber in the centre of the village, when the alarm is given with promptness and little time is lost in getting out the apparatus.

Until arrangements are made for permanent quarters, it would be premature to recommend the adoption of a fire alarm signal system, but such a system will soon be found to be a necessity.

To drag the hose carts and truck to a fire is a task of some magnitude, more especially as so many hills are encountered in our streets.

All these things militate against the efficiency of the firemen, as considerable time elapses before the scene of the fire is reached.

For this purpose a team of horses should be purchased, as their cost would be saved to the taxpayers in a few years by the increased facilities in reaching a fire. This, of course is a subject for subsequent consideration when the permanent location of the department is definitely settled.

The firemen placed a locomotive tire for sounding alarms at the hose house, but as the village has not been laid out in districts, it has not been used to any great extent. Alarms are still sounded on the locomotives at the round house by the courtesy of the engineers, who have never failed to comply with a request from a fireman.

Five alarms have been sounded during the year, to which the department responded, as follows:

## *Fire Department.*

29

1893.

May 25. House of Philip O'Connor, Church street; chimney fire; no loss.

June 9. House of A. M. Decker, Warwick avenue; cause unknown; loss \$10,000, fully insured.

Dec. 4. House of Watson Matthews, Vose avenue; chimney fire; no loss.

1894.

Feb. 24. House of Henry F. Hitch, Scotland street; chimney fire; no loss.

March 2. House of Mrs. Jane Condren, Academy street; cause unknown; loss \$300, fully insured.

The department also responded to an alarm in Vailsburgh, of which no record of loss was kept.

The department is composed of three companies—Hook and Ladder Company No. 1, Hose Companies Nos. 1 and 2.

### MEMBERS OF THE DEPARTMENT.

Chief Engineer—JOHN BARRETT.

First Assistant Engineer—HARRY W. HUGHES.

Second Assistant Engineer—FRANK S. FEINDT.

HOOK AND LADDER COMPANY NO. 1.—John Stieve, Foreman; Harry J. Becker, Assistant Foreman; Harmon H. Hart, Philip Detrich, Joseph P. Feindt, W. A. Ball, Herman Markthaler, Charles J. Feindt, V. J. Hill, Jr., Patrick Reynolds, Frederick Allen.

HOSE COMPANY NO. 1.—John Bowe, Foreman; John Hagin, Assistant Foreman; William N. Drake, Robert Leslie, William B. Newman, Harry C. Burns, Patrick McCarey, M. A. Fitzsimmons, R. W. Leslie, William D. Decker, William Sullivan, Patrick Kelly, Fred D. Crozier, James F. Noonan, Joseph M. Tracy, Harry W. Hughes.

HOSE COMPANY NO. 2.—Thomas Sherry, Foreman; George E. Versoy, Assistant Foreman; Charles J. Barrett, George Arnold, Charles H. Galbraith, Harry E. Reeve, Charles I. Beck, William J. Carter, Frank S. Feindt.

In conclusion, I wish to express my thanks to your honorable body and to the members of the Fire Committee, and to the officers and members of the department for the satisfactory manner in which they have performed their duties; also to the citizens of the village for their generous encouragement during the past year.

Respectfully submitted.

JOHN BARRETT,  
Chief Engineer.



## REPORT OF SEWERAGE COMMITTEE.

*Hon. E. F. Church, President, and Gentlemen of the Board of Trustees  
of the Village of South Orange:*

Your Sewerage Committee would report comparatively little progress. In the Fall of 1893, a resolution was introduced and passed unanimously by the Board offering free sewerage for five years to the township of Millburn, if they would unite with our village in a sewerage system. On or about this time the sewerage cases were to be argued before the Court of Errors and Appeals by our attorneys in the case. At a special meeting of the Trustees, President Church was instructed to get the attorneys representing all interests to agree to postpone the argument from the November to the March term of the Court.

After this over one thousand copies of the resolution were printed and distributed throughout the township of Millburn, with the hope that by holding out the olive branch of peace we would be able to use the Village Farm for sewerage purposes without any more litigation, but for various reasons this did not succeed, and the arguments were submitted at the March term of the Court of Errors and Appeals, a decision from which may be expected about June 1, 1894.

A great deal of hard work has been done by this committee, in trying to get sewerage within the last twelve (12) months, and it is through no fault of either the committee or the Board of Trustees that more has not been accomplished. It is hoped that within the next year sewerage will be an established fact, either according to the original plan, or some other wise one, whereby the citizens of South Orange can live with pure soil, as well as pure air and pure water.

H. A. MANDEVILLE,  
TIMOTHY BARRETT.

### BOARD OF HEALTH.

EUGENE V. CONNETT, President.

DR. HENRY A. PULSFORD,

PHILIP H. CAMPBELL,

DR. MEFFORD RUNYON,

ARTHUR C. BABSON,

IRA C. KILBURN.