Appendix No. 3.

STATEMENTS SHOWING QUANTITIES OF WORK PERFORMED AND COST OF NEW CONDUIT, AS PER FINAL ESTIMATES TO CONTRACTORS, AND OTHER CHARGES AGAINST THE ADDITIONAL WATER SUPPLY ACCOUNT.

I. SUMMARY OF WORK PERFORMED BY VARIOUS PARTIES IN CONNECTION WITH THE CONSTRUCTION OF THE NEW INTAKE WORKS AT HEMLOCK LAKE.

ITEMS.	AMOUNT.	TOTAL.
CARROLL-PORTER BOILER & TANK CO., Pittsburgh, Pa.		
1,486.25 lin. ft. 60-inch steel intake pipe, made from 5-16 and 3-8 inch plates		$ 15,683 90
CENTRAL BRIDGE & ENGINEERING CO., Peterborough, Ont.		
15 ball and socket joints for said intake pipe, each joint being 4.25 ft. long	$ 4,372 45	
Import duties on same	1,031 26	
		5,403 71
CHAMBERS & CASEY, Rochester, N. Y.		
Dredging a channel in lake bottom, 740 ft. long, for the intake pipe.		
10,000 cu. yds. dredging, at 50c per cu. yd.	5,000 00	
4,496 " " " " 45c " " "	2,023 20	
360 hours extra work with dredge, re-filling over pipe and pulling piles, at $3.00 per hour	1,080 00	
		8,103 20
Pile platforms, tramway, trestles, etc.; 10,814.8 lin. ft. piles, furnished and delivered, (mostly from 40 to 60 ft. long), at 14.6c per lin. ft		1,578 96
78,591 ft. B. M. hemlock lumber, at $10.416 per M	818 59	
19,114 " white pine " " 23.875 " M	456 35	
35,241 " oak " " 15.487 " M	545 77	
		1,820 71
8,956 lbs. wrought and cast-iron work		236 15
4 special winches with triple blocks and capacity of 18 tons each, made by L. S. Graves & Son, for lowering 100-foot sections of the intake pipe		1,696 81
Miscellaneous material and all labor employed in laying 1,512 lin. ft. of intake pipe and appurtenances, including coffer-dam and excavation for second length of pipe, backfilling, superintendence, etc.		14,845 16
Total cost of permanent intake works		$ 49,368 60
Temporary intake works, with 16-inch cast-iron pipe	1,016 15	
Temporary buildings at gate house, overflow, etc	249 26	
		1,265 41
Measuring weir and pipes for future water-level registering devices in gate house		1,191 24
Total		$ 51,825 25

II.—SUMMARY of work performed by W. H. Jones & Sons, in the construction of a Masonry Water Conduit, Tunnel, Gate House, Overflow Chamber, and the appurtenances thereto, commencing at the northeastern corner of Hemlock Lake and terminating at a point on the Outlet of said Lake about 12,000 feet northerly, under their contract with the Executive Board, dated February 6, 1893, and known as "Contract No. 1, Additional Water Supply."

QUANTITY.	ITEMS.	PRICE.	AMOUNT.
For the entire work	Pumping, bailing and draining		$ 2,000 00
1.7 acres	Clearing and grubbing	$ 25 00	42 50
2,581.0 cu. yds.	Earth excavation in roadway grading	0 50	1,290 50
718.4 cu. yds.	Rock excavation in roadway grading	1 50	1,077 60
25,924.4 cu. yds	Earth excavation in open trenches and pits	0 70	18,147 08
1,712.7 cu. yds	Rock excavation in open trenches and pits	2 00	3,425 40
413.9 cu. yds.	Earth excavation in shafts for tunnel	1 25	517 38
1,796.0 cu. yds	Rock excavation in shafts for tunnel	4 00	7,184 00
453.2 cu. yds.	Earth excavation in tunnel	5 00	2,266 00
13,848.9 cu. yds.	Rock excavation in tunnel	7 00	96,942 30
80,737.0 cu. yds.	Hauling excavated material more than 1,000 feet, reduced to a basis of 100 feet over-haul	02	1,614 74
1,169.9 cu. yds	Concrete masonry with natural cement, in structures built in open excavation	4 50	5,264 55
1,959.5 cu. yds	Concrete masonry with natural cement, in the tunnel and shafts	5 50	10,777 25
83.7 cu. yds.	Concrete masonry, extra rich in Portland cement	8 50	711 45
1,085.3 cu. yds.	Brick masonry, laid with Portland cement mortar, in foundations of gate house and overflow chamber	12 00	13,023 60
2,155.8 cu. yds.	Brick masonry, laid with Portland cement mortar, in the conduit, culverts and other structures built in open excavation	12 00	25,869 60
3,494.0 cu. yds	Brick masonry, laid with Portland cement mortar, in the tunnel and shafts	14 00	48,916 00
233.9 cu. yds.	Rubble masonry, laid with natural cement mortar, in open excavation	6 50	1,520 35
18.8 cu. yds.	Cut stone masonry and copings laid in Portland cement mortar	28 00	526 40
25.0 cu. yds.	Rip-rap in channels of water-courses	2 50	62 50
4.0 lin. ft.	20 in. vitrified earthenware pipe	1 75	7 00
72.0 lin. ft.	12 in. vitrified earthenware pipe	60	43 20
154.5 lin. ft.	6 in. wrought-iron well-tubing for tunnel ventilation holes	1 65	254 92
309.0 lin. ft	Drilling 6 in. tunnel ventilation holes in rock	0 60	185 40
1,511.1 lin. ft.	Timber piles in gate house foundation, furnished and driven	90	1,359 99
18,270.0 ft. B. M	Timber and planks in foundation of gate house	24 00	438 48
16,299.0 lbs.	Wrought-iron work furnished and set in place	06	977 94
91,523.0 lbs.	Cast-iron work furnished and set in place	05	4,576 15
200.0 lbs.	Bronze work in gate house and shafts	65	130 00
45,983.0 ft. B. M.	Sheeting and timbers left in place in the conduit trench in open excavation and in foundation of gate house, as per contract	14 00	643 76
1,583.0 cu. yds.	Rough rubble masonry backing of brick side-walls and arch, built in open excavation	5 50	8,706 50
7,236 lin. ft	Concrete flooring of conduit in rock tunnel		7,236 00
168.5 cu. yds.	Additional volume of dry filling over crown of arch in rock tunnel, on account of extra excavation ordered by engineer.		337 00

CONTRACT NO. 1—Continued.

QUANTITY.	ITEMS.	PRICE.	AMOUNT.
	For rent of land for air compressor, construction of plank road, extra work setting first section of intake pipe, cutting foot holes and weepers in masonry, backfilling temporary ventilation shaft, and additional cleaning of conduit		$ 956 30
	Total		$267,031 84
	Extra work in preparing foundations of gate house and setting the gates in same; also for puddle wall to cut off spring near the overflow chamber, timber platform for storing intake pipe, borings in lake bottom, etc.		1,592 46
	Total paid to Wm. H. Jones & Sons for new conduit, under Contract No. 1, Additional Water Supply		$268,624 30

III.—SUMMARY of work performed by Whitmore, Rauber & Vicinus in the construction of a 38-inch Riveted Steel Pipe Conduit and all required appurtenances thereto, commencing near Hemlock Lake and terminating at Mt. Hope Reservoir, under their contract with the Executive Board, dated February 6, 1893, and known as "Contract No. 2, Additional Water Supply."

QUANTITY.	ITEMS.	PRICE.	AMOUNT.
12.48 acres	Clearing and grubbing	$ 70 00	$ 873 60
59,825 cubic yards	Earth excavation in roadway grading	35	20,938 75
2,251.27 cubic yards	Rock excavation in roadway grading	1 25	2,814 09
206,067 cubic yards	Earth excavation in open trenches for the pipe conduit and other structures	75	154,550 25
1,247.18 cubic yards	Rock excavation in open trenches for the pipe conduit and other structures	2 25	2,806 16
2,143.78 cubic yards	Concrete masonry with natural cement, in structures built in open excavation	7 00	15,006 46
30.91 cubic yards	Concrete masonry with Portland cement, in structures built in open excavation	8 00	247 28
712.72 cubic yards	Brick masonry laid with Portland cement mortar in structures built in open excavation	14 50	10,334 44
34.03 cubic yards	Cut stone masonry and copings	35 00	1,191 05
122.68 cubic yards	Second class stone masonry laid with natural cement mortar	15 00	1,840 20
637 cubic yards	Third class stone masonry laid with natural cement mortar	12 00	7,644 00
684.25 cubic yards	Fourth class or common rubble masonry laid with natural cement mortar	10 00	6,842 50
52.43 cubic yards	Screened gravel in foundations	3 50	183 51
2.85 cubic yards	Slope wall laid dry	6 00	17 10
163.54 cubic yards	Stone paving	5 00	817 70
120.58 cubic yards	Rip-rap put in place	5 00	602 90
1,324.18 lineal feet	36-inch cast-iron water pipe, furnished and laid	6 90	9,136 84
99.49 lineal feet	30-inch cast-iron water pipe, furnished and laid	5 20	517 35

CONTRACT NO. 2—Continued.

QUANTITY.	ITEMS.	PRICE.	AMOUNT.
350.57 lineal feet. .	24-inch cast-iron water pipe, furnished and laid	$ 3 80	$ 1,332 17
395.60 lineal feet ...	16-inch cast-iron water pipe, furnished and laid	2 00	791 20
349.60 lineal feet	8-inch cast-iron water pipe, furnished and laid	85	297 16
733.70 lineal feet....	6-inch cast-iron water pipe, furnished and laid	70	513 50
3,242 lineal feet. ..	Vitrified earthenware tile, from 24 to 6 inches in diameter, furnished and laid for drainage purposes, amounting in the aggregate to		1,381 75
3,514.26 lineal feet..	Altering agricultural and other drains, and laying new drains where necessary		259 49
1,749.50 lineal feet..	Timber piles in foundations, furnished and driven	60	1,049 70
4,799.70 lineal feet..	Timber piles in bridges and trestles, furnished and driven	50	2,399 85
62,796 feet B. M. ..	Timber and plank, furnished and put in place in foundations. This also includes temporary air-valve boxes, and box drains left in place	30 00	1,883 88
97,854 feet B. M....	Oak timber and plank in bridge floors, gate vault covers, blow-off boxes and box drains	45 00	4,403 43
19,461 feet B. M.....	White pine timber in bridges	45 00	875 75
70,304 feet B. M.....	Plank and timber sheeting left in the conduit trench and other excavations, as per contract	14 00	984 26
35,658.40 pounds.....	Wrought-iron work in place	05	1,782 92
39,070.80 pounds.	Cast-iron fittings in place	05	1,953 54
207,703 pounds.....	Cast-iron specials in the conduit line and appurtenances	04	8,308 12
137.....	Man-holes set in the conduit line	60 00	8,220 00
32.....	36-inch stop-valves set	25 00	800 00
5	30-inch stop-valves set	22 00	110 00
2...	24-inch stop-valves set	18 00	36 00
2.....	16-inch stop-valves set	15 00	30 00
1.	Pair of 8-inch blow-off valves set	6 00	6 00
66	Pairs of 6-inch blow-off valves and 6-inch air valves set	4 00	264 00
28	4-inch air-valves set	3 00	84 00
34....	3-inch air valves set	3 00	102 00
207.56 tons.....	Hauling stop-valves and other material furnished by the Executive Board	3 00	622 68
10 creek crossings..	Coffer-damming, bailing and draining at creek crossings	4,500 00	45,000 00
53,360.73 lineal feet..	38-inch steel conduit pipe, ¼-inch plate, with single riveted straight seams, furnished and laid	5 47	291,883 19
24,729.18 lineal feet..	38-inch steel conduit pipe, ¼-inch plate, with double riveted straight seams, furnished and laid	5 56	137,494 24
34,814.95 lineal feet.	38-inch steel conduit pipe, 5-16 inch plate, with double riveted straight seams, furnished and laid	6 96	242,312 05
24,042.68 lineal feet..	38-inch steel conduit pipe, ⅜-inch plate, with double riveted straight seams, furnished and laid	8 55	205,564 91
13,468 pounds	Old steel rails in covering gate vault near Mt. Hope reservoir	01½	202 02
123 cubic yards.. ..	Gravel to raise grade of highway near Elmwood ave	1 25	153 75
172.30 lineal feet ...	6-inch wrought-iron pipe, laid for air inlets to air-valves in highways	10	17 23
6,888 pounds.....	Reserve castings and bolts		470 10
			$ 1,197,953 16

CONTRACT NO. 2—Continued.

ITEMS.	AMOUNT.	TOTAL.
Amount brought forward		$1,197,953 16
For various other items summarized as follows:		
Material and labor for temporary air-valves on conduit during construction	$ 328 10	
104 days pumping from Hemlock Lake outlet to maintain flow of water in completed portion of conduit during winter of 1893-4	728 00	
Alterations in steel pipe on account of changes in line and grade at various places	153 43	
Use of land on east side of Pinnacle ave. during construction	140 00	
Farm gates and fencing around air-valves, etc	682 61	
Temporary building at Mt. Hope Reservoir, boxing temporary inlet pipes at reservoirs, relaying old 24-inch conduit at Rush Reservoir, etc	798 87	
Amount		2,831 01
Total paid to Whitmore, Rauber & Vicinus for New Conduit under Contract No. 2, Additional Water Supply		1,200,784 17
Deduct amount charged to Water Distributing System Fund for work done at Mt. Hope Reservoir		3,778 34
Balance chargeable to New Conduit		$1,197,005 83

IV.—SUMMARY of work performed by various parties in furnishing Stop-Valves, Air-Valves, Cast-Iron Valve Boxes and other Castings; also the Buildings for New Gate House at Rush Reservoir and Overflow Tower at West Bloomfield.

ITEMS.	AMOUNT.	TOTAL.
RENSSELAER MFG. CO., Troy, N. Y.		
Stop-valves and air-valves for conduit		$18,952 35
GENESEE FOUNDRY CO., Rochester, N. Y.		
Sliding gates and appurtenances in Hemlock Lake gate house	$ 986 13	
Cast-iron valve boxes and other castings for conduit	2,116 31	
		3,102 44
LAKE SHORE FOUNDRY, Cleveland, O.		
Reserve castings for conduit		426 45
SNOW WIRE WORKS, Rochester, N. Y.		
Screens for Hemlock Lake gate house and temporary intake work		489 16
WHITMORE, RAUBER & VICINUS, Rochester, N. Y.		
Construction of overflow tower at West Bloomfield	1,844 39	
Gate house at Rush reservoir	3,250 00	
		5,094 39
L. ERNST & SON, and others, Rochester, N. Y.		
Locks, stub-wrenches, small valves and other miscellaneous materials and labor		1,804 09
Total		$29,868 88

V.—Summary of payments for damages to mill-privileges, rights of way and legal expenses.

To owners of mill-privileges on outlet of Hemlock Lake and Honeoye Creek, for unlimited use of the remainder of all water in both Hemlock and Canadice lakes, in excess of 9,000,000 gallons per day	$	67,250 00
To owners of land for permanent rights of way for new conduit		46,047 50
For temporary land damages, and expense of agents in securing rights of way		8,064 76
Making abstracts of title and searches and recording documents		2,783 84
Legal expenses, including condemnation proceedings		4,676 20
Total	$	128,822 30

VI.—Summary of payments for engineering, inspection, printing, advertising, etc.

Engineering and inspection	$	88,567 67
Office rent, stationery and supplies		4,635 81
Printing, advertising and expenses connected with the sale of bonds		4,464 07
Borings, test pits, etc., on preliminary surveys		3,097 75
Total	$	100,765 30

VII.—General Summary of Costs of New Conduit.

I. Intake works at Hemlock Lake	$	51,825 25
II. Masonry conduit and appurtenances		268,624 30
III. Steel pipe conduit and appurtenances		1,197,005 83
IV. Stop-valves, buildings, etc		29,868 88
V. Damage to mill privileges and lands, rights of way, and legal expenses		128,822 30
VI. Engineering, inspection, printing, etc		100,765 30
Total	$	1,776,911 86

VIII.—Summary of Receipts Constituting Fund for Additional Water Supply.

Amount of bonds authorized and sold	$	1,750,000 00
Premiums received on said bonds		16,606 33
Accrued interest on bonds prior to sale and on unexpended funds deposited in banks during construction		18,222 56
Miscellaneous receipts from sale of scow, timber, etc		106 17
Total receipts	$	1,784,935 06
Total expenditures		1,776,911 86
Balance in fund, Jan. 1, 1896	$	8,023 20