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REPORT

in

of the

WATERING COMMITTEE

to the

SELECT AND COMMON COUNCILS.

READ JANUARY 18, 1821.

PUBLISHED BY ORDER OF THE COUNCILS.

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A.

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ANNUAL REPORT

of the

WATERING COMMITTER.

THE Watering Committee offer their Annual Report to Councils.

In pursuance of the Ordinance of 17th December, 1818, the large Iron Main has been completed, from the Reservoir at Fair Mount, to the intefsection of Chesnut and Broad streets, and is found fully to answer the purpose contemplated; and when the plan shall be further pursued, by extending a ten inch Iron Main in Chesnut street, from Broad to Front street, and two of six inches in Market street, from Broad to Eighth street, the means of conveying a supply of water will probably be more than equal to the quantity that can be raised by the Steam Engines, and will be in readiness to receive the copious supply anticipated from the new Water Works. The pipes for the Main in Chesnut street are all nearly ready, and part of them are laid.

In consequence of the increased facility of procuring the water, a much larger quantity is now expended than at any time heretofore, at this season of the year; it being found, that the Engines which were before kept at work nine or ten hours in the day, are now employed thirteen or fourteen hours, and this will

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account for the increased demand for fuel, stated in the estimate for the present year.

It will be seen by that estimate, that there is a deficiency in the sum raised by loan for the purpose of laying down the large Iron Main, of \$2947 23, arising from the necessity of purchasing a lot, at the cost of 1100 dollars, to get the pipes across from the Canal bank to Callowhill street, and also from the purchase of forty-two twenty inch iron pipes, more than are now found to be needful, at the cost of 1890 dollars; this increased quantity of pipes it was thought prudent to purchase, to ensure a sufficient . number of good pipes, many of the pipes, when received, being believed to be not trustworthy, though subjected to the proof at the furnaces, required by the contract. The experience, however, derived from those laid down, leads to a belief, that those which were laid aside may now be safely employed, whenever the Main shall be extended in Broad street. Other circumstances, connected with a new and untried plan, operated to increase the cost, such as the necessity of deep cutting, in some parts of the Canal bank, through a gravel bank, and from the joints of the pipes requiring more lead than was expected. The whole quantity of twenty and twenty-two inch Iron Main now laid, is 9570 feet, the cost of which is about \$7 42 per foot.

In consequence of the gradual decay of the wooden pipes, and the increased quantity of water they have had to pass, many leaks have taken place, beyond any former example, the repairs of which have absorbed the supply of pipes which was on hand, and renders absolutely necessary a larger provision than usual; which of course swells the estimate for the present year, and which is fur-

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ther increased by the necessity there is found of taking up the logs in Market street, and replacing them with six inch iron pipes, to vent the supply which the large Main will now afford, and to make the plan of distribution so far complete.

In laying the pipes, a great number of stop cocks and branches will be wanted, to connect the Iron Mains in Market and Chesnut streets, with the pipes in the north and south streets, independent of the attachments of Fire plugs, Hydrant pumps, &c.

The progress made during the past year, with the Dam and other works, is considerable. The Dam, which has been raised agreeably to resolution of Councils of 3d June last, eighteen inches higher than at first proposed, is completed, except about 107 feet in the centre, which will be closed as soon as may be needful in the spring, but certainly before the 1st July, which is the last day allowed by the contract. The Canal, Locks, and other works on the west side, are nearly completed; the gates are hung, and the whole will be finished before the Dam is closed.

Great progress has been made in excavating the Mill Race and Mill Sites, the latter of which are by contract to be done by 10th April next: two of the head arches are finished, and a few weeks will suffice, when the season will permit, to finish the third.

The Mill timber is nearly all ready, and Mr. Drury Bromley, a Millwright of character, recommended by Mr. Thomas Oaks, is engaged, who will in a few days commence the preparation of the machinery. The Iron Shafts for the wheels are already cast, and will be here as soon as the mavigation will permit. Contracts have been

#### 555. (1820, page 5.)

made for the dressed stone for the Mill houses, Mill arches, &c., to be delivered by the 10th April, at which period the Committee contemplate commencing the erection of the buildings. Other parts of the work are progressing, and the Committee are using every exertion, to complete, at an early day, the work entrusted to them.

Agreeably to the authority vested in the Committee, they have authorized the Mayor to borrow one hundred and thirty thousand five hundred dollars, (including the sum reported last year,) all of which has been obtained at a premium of from two to six per cent. and the remainder will probably be had at an interest of five per cent. per annum.

The contract with Messrs. Cadwalader and others, authorized by resolution of Councils of 14th September last, has been carried into effect.

The Committee offer, as part of their Report, the annexed Accounts, viz .--

No. 1. Showing the sums expended in carrying on	
the Water Works, &c. for the past	
year, amounting to,	\$24,018 82
The sum expended for Iron Main,	21,930 79
Ditto for iron pipes, under appropria-	
tion of 22d April, 1819,	16,940 79
Dam, Locks, &c.,	81,081 61
Mill buildings, pumps, &c. for the New	
Works,	5,728 74

No. 2. Is an account of the sums paid by the Superintendent into the Treasury, during the past year.

No. 3. Shows the quantity of Wooden Pipes laid last year, and also of Iron Pipes. 556. (1820, page 6.)

No. 7. E	<pre>xhibits the number of Dwellings, &amp;c., supplied with Schuylkill water, at the present time.</pre>	
No. 4. Co	ontains the estimate for carrying on the Fair Mount Works, and for Iron Pipes, during the current year, amounting to, which may in part be provided for in the following manner:	<b>\$41,9</b> 60 84
	Amount of Duplicate of Water Rents, per Account No. 5, \$19,981 80	
	Amount paid into the Treasu- ry by the Superintendent, in 1820, per Account No. 2, 982 35	
	Amount of Water Rents received in advance, by the City Clerk, in 1820, and paid into the City Treasury,	
L	per Account No. 6, 663 23 eaving a deficiency of	<b>21,627</b> 38

But it will be perceived, that of this sum, (by the Account No. 4.) \$14,660 84 consists of deficiency in the appropriation for Iron Main; and of estimate for the cost of Iron Pipes, and cost of laying them, essentially necessary to complete the plan adopted by the Councils, when they passed the Ordinance of 17th December, 1818, and as these Pipes are not part of the ordinary annual expenditure of the City, to be defrayed by annual taxes, but are part of a permanent system, which would be more equitably discharged in a course of years, by the operation of the Sinking Fund, the Committee suggest the propriety of extending the provisions of the Ordinance just mentioned, by authorizing a further loan of \$15,000, and they offer, accordingly, a draft of an Ordinance for the purpose.

### 557. (1820, page 7.)

Should this measure meet the view of Councils, there will thenr remain only \$5333 46 to be appropriated for the use of the Water Works, in the usual manner.

By order of the Committee,

JOSEPH S. LEWIS, Chairman.

January 11, 1821.

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4 . .

LIST OF CERTIFICATES FOR MONIES

Drawn by the

\$

WATERING COMMITTEE

for

FAIR MOUNT WATER WORKS,

From Dec. 31, 1819, to Dec. 31, 1820.

					-							-							
170	2000																+	10710	0
No. 234	1820.	a To	Par			12-			- 1-	a.		4.6					1 1	)olls.	C.
204	Jan'y	6 In	favo	aur	01									1 27 -	. min	-		2000	00
235	1	a na	++-					k o							T.K.	23	1.	1055	25
236	2		tto,						-	-	-	**	-				1	1017	00
237	2		tto.													-	1	1000	00
238			tto.													-		777	62
239			tto,													-		4000	00
240																-		2013	33
	2		tto,													-		4079	20
241		and the second se	tto,													-	1	4000	00
and the second second			tto,													-11	1	2000	00 -
243	1		tto,													-		3760	28
244	A1		tto,													-		6326	39
245	1															-	1	2000	00
	2		tto,													-	- · ·	2275	09
247																	-	3487	50
248	1	D DI	tto,	-												-			00
249	1		tto,															1000	93
250	2		tto,													-		1898	00
251	2																	3000	9
252			tto,													***	1.00	1572	93
253			tto,	-		100	-							-	-	-	No.	4403	33.
254	1		tto,			-		* *								-		3306	16
255	2		tto,			+*.										-		4460	00
256	3		tto,			-							-					3562	50
257						-	-		-									2259	59
258	2		tto,			*							41			-	Sector Sector	3217	75
259	1		tto,			**												1667	87
260	2		tto,		* *		100						-		• •		N-AND	3000	00
261	2		tto,	-				** **					-		* **			5000	00
262			tto,			-				100	-		-		* **	-		3000	00
263	Aug.		220,	-	* **	-				100		-	-					2660	34
264			ttos			-										-		1853	50
265	1 1	and the second second	tto,	- •	-	**	-			1000	100							1013	33
266	1 1		tto,	-		-	-			**	***	-	-	-		-		2975	00
267	2		tto,	-	-	-	-		-	-	**	*	-	-		-	de la companya	2693	
268			tto,	-		-			* **	-	-		-	-		***		5349	47
269-	1 1		tto,			-	-			-		*	-	-		-		3190	00
270	3		tto,	-	-				-	-	-	-				***	Concession of the second	3500	00
271			tto,	-	-		-	-		-	*	-	-	-		-		4800	00
272	Oct*r	2 Di	tto,			-	-				-	-	-	-	• ••	-		2500	00
	1																1		

559. (1820, page 9.)

No.	1820.		Dolls.	C.
273	Oct'r 2	In favour of Frederick Graff,		
		Clerk of the Water Works,	3352	43
274		Ditto,	1795	10
275	6	Ditto,	3666	67
276	28	Ditto,	3675	00
277	Nov'r 1	Ditto,	2052	97
278	11	Ditto,	3575	00
279	25	Ditto,	6940	00
280	Dec'r 2	Ditto,	1819	31
281	9	Ditto,	3500	00
282	23	Ditto,	1220	71
283		Ditto,	3893	86
284	30	Ditto,	2533	62
444	00		***	
			149700	75

560. (1820, page 10.)

# ABSTRACT OF PAYMENTS

#### MADE UNDER THE

-

### FOREGOING CERTIFICATES.

#### DISTRIBUTION.

NO	1820.		Dolls.	c.
235		Michael Fox for 1000 bricks had in 1819,	10	00
236		Richard Smith for turning 242 pump boxes		00
238		Wages of workmen for January, 1820,	287	37
1000		Ann Smith for sundry hauling in Dec'r		1
		1819, and Jan'y 1820/	17	00
241	March 2	Ditto, for hauling 15 loads of gravel		1
and the ske	ANGRA GILL BR	and 1 of clay,	15	50
		Wages of workmen for February,	251	21
244	April 1	George Smith for nails, pump tacks, &c,	18	29
10 . W. W.	and a second second	Thomas Cope & Son for 226 bushels of		140
		coal and hauling,	67	80
		Job B. Remington for 2040 feet oak		1
		scantling,	28	05
		Charles Green for brass castings,	70	150
		Wages of workmen for March,	345	56
247	May 1	Thomas Conarroe for 500 feet of pipe		1
		timber,	50	25
		Ditto, on account for 2 rafts of pipe		1
		timber,	175	00
		William Reihle for 127 lbs. of leather		CST ch
		for pump work,	38	110
		Wages of workmen for April,	305	35
248	13	Thomas Conatroe, balance for 2 rafts		1
		of pipe timber,	27	50
252	June 1	George & Jacob Peterman for horse		
	1	feed to May 23d,	32	19
		George Smith for nails, spikes, &c.,		and the second se
		to May 24,	13	42
		Ann Smith for hauling gravel for pumps,	11	00
		Wages of workmen for May,	305	62
257	July 3	Richard Smith for turning pump nossels		
		and boxes,	14	00
	1 August	Wages of workmen for June,	249	54
263	Aug. 2	Dixey & Manderfield for 20 hydrant pumps		00
		Ann Smith for horses for boring pipes,	30	00
		George & Peter Wolf, two-thirds pay-		
		ment for a lot in Cherry street,	233	33
		Wages of workmen for July,	386	23
268	Sept. 1	Alexander Purviss for 11 1/2 yards of		-
		coarse cloth,	14	37
		Joseph Pierson for 2 loads of hay and	1	1.0
		25 bundles of straw,	38	18
			1	1

561. (1820, page 11.)

					1	Service -
No.	1820.		Dolla	C.	Dolls.	C.
		George Smith, for nails, spikes	der hit sile, die hit +		and the star to a	w.e
	water to a set	&c. to August 2d,	15	59		
		Ann Smith for hauling gravel,	4.47	00		
and the second se			28	00		1. 66
	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Wages of workmen for August,	415	81	1.1.1.1	
273	Oct'r 2	Joseph Caskey for whiskey, -	36	26		
		Ann Smith for sundry hauling				
ALC: NO		in September,	16	75		
		Frederick Graff for sundry				
1.		small bills paid by him,	13	19		
		Wages of workmen for September	335	02		
274		Samuel Richards for iron cast-				
	1. 1. 1. 1. The second	ings,	26	20		
277	Nov'r 1	Farris & M'Affee for 64 loads				
1.11		of rubbish and 1 load of			With Sel	
	paper in the	sand,	7	05		he also
1000		Richard Smith for turning 390	Re hours	1.		1.17
	Cherry Contraction of the	pump boxes,	24	37	·	12.
	and the second	Stephen Simmons for sundry		-		
	1	lumber,	251	95		100
		John Warnick for nails, sprigs,				
		tacks, &c.,	24	28		
	1.1.1.1.2	Thomas Morgan for 8 gallons				
		neat's oil,	12	00		
		Michael Fox for 6200 paving	= -	100		
		bricks,	50	60		
279	05	Wages of workmen for Sctober,	352	84		
613	25	Archy Moore, digging and tak-	100	00		
280	Dec'r 2	ing up pipes near Reservoir, Passmore & Sparhawk for 2 doz-	100	00		
19.00	DOC A	en shovels and 18 spades,	11	40		
		George and Jacob Peterman for	after after	30		
	-	horse feed to November 25th,	29	69		
	1	Henry Abbett for 1 dozen spades		44	1317	
		and 1 dozen spade handles,	9	50		
		William Kemble for 546 lbs.	1	1		
		gun-borings, casks & charges	. 33	76		
	A Contraction of the second	Ann Smith for hauling straw				
		to fire-plugs, &c.,	12	52		
	1 March 1 March	Wages of workmen for November,	352	84		
282	23	Archy Moore, balance for dig-				
	40	ging and taking up water-	1 1 1			100 000
		pipes,	115	37		-
		Edward Smith for sundry iron,	58	49		
		Frederick Stilwaggon for 176		00		Contraction of the local division of the loc
		bushels of coals & hauling,	66	88		Number of States
		Daniel Knight for moving sta-	1			-
		ble and repairing fences, -	13	75		
		William Davis for ropes, Samuel P. Wetherill & Co., for	20	40		1000
		paints, oil, &c.,	35	08	-	
		William Reihle for 369 lbs.	00	00		and the
		of pump leather,	110	70		0000
	A COLOR OF	Cartnell & English for shoe-				Contraction of the second
	1	ing horse, &c.,	15	23		
						and the second
			1	8		1

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ų						
No.	1820.		Dolls.	c.	Dolls.	c.
282	Dec'r 23	Rowley and Alberger for plum- er's work to pumps, &c., -	69	97		
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Michael Williamson for sundry				1. 1. 1.
283		wrought iron,	137	82	-	
ANGU -		Israel Roberts for 18 copper balls for pumps,	36	00		
		William Dilworth for iron- mongery,	77	11		
	and the second	William White for 86 1/2 yards				1
284	30	of flannel,	26	89		
		William B. Emerick for 1/3 of	12	56		
		lot in Cherry street and				
		interest,	119	50		
		hydrant pumps,	137	50		
		Ann Smith for hauling pipes to the pond, &c.,	86	95		
		Frederick Graff for sundry small bills paid by him, -	19	23		
		Wages of workmen for December,	515	25		
		and the second			6996	66
						-
			1			
		ENGINES.				
		and the second sec				
235	Jan'y 15	Michael Fox for 2500 bricks had in 1819,	20	25		
238	Feb'y 1	Wages of workmen for January,				
		Ann Smith on account for haul-	271	75		
	11000	ing wood,	75	00		
241	March 2	Wages of workmen for February, Ann Smith on account for haul-	255	75		
044	1	ing wood,	35	00	direction of the second	
244	April 1	Wages of Workmen for March, Ann Smith on account for haul-	291	75	C. Constanting of the second	
245	13	ing wood,	40	00		
REGRE		cords of wood,	462	50	C-MIC -	
		Henry Nixon, 6 months' rent of wood wharf, due April 15,	175	00		
247	May 1	Ann Smith on account for haul- ing wood,	17	50		
		Ann Smith on account for			Citation	
	Contraction of the second	hauling wood to engines, Wages of workmen for April, -	40 257	00 50		
		Caldwell & Fisher for 100				
	1	cords of wood,	462	50	(	
					8	

563. (1820, page 13.)

No.	1820.		Dolls.	с.	Dolls.	с.
248	May 13	Thomas Hodgson for 100 cords of wood,	460	00		
250	20	E. & T. Ballett for 612 lbs. of tallow,	85	68		
		Thomas Hodgson for 100 cords of wood,	460 -			
252	June 1	Ann Smith for sundry hauling		190		
114		in May,	36 322	75		
253	7	Caldwell & Fisher for 100 cords of wood,	462	50		
	2.00	Thomas Hodgson for 100 cords of wood,	460	00		
255	24	Thomas Hodgson for 100 cords				
256	30	of wood, Caldwell & Fisher for 100	460	00		
257	July 3	cords of wood,	462	50		
		1059 cords of wood, delivered in 1819,	127	70		
		Ann Smith for sundry hauling		00		
		in June,	28		1 the second	19 <sup>111</sup> -
195	Ser Start Ash	Wages of workmen for June,	460 349	00 43		
258	8	John Marley on account for cording wood,	30	00		1
259	18	Thomas Hodgson for 200 cords of wood a \$4 75,	950	00		
263	Aug. 2	Ann Smith for hauling wood on		1.1		
3.00		Wages of workmen for July,	23 344	94 71		
266	15	Thomas Hodgson for 100 cords of wood,	475	00		
267	29	Caldwell, & Fisher, balance for	493	72	1 Martin	
268	Sept. 1	506 3/4 cords of wood, Wages of workmen for August,	267	25		
273	Oct'r 2	Thomas Hodgson for 200 cords of wood,	950	00	and the second	
277	Nov'r 1	Wages of workmen for September Thomas Morgan for 32 gallons	278	37	rine se ville de	
		of neat's foot oil, Ann Smith on account of haul-	48	00		
		ing wood, delivered in 1820,	125	.00		
		Henry Nixon for 6 months' rent of wood wharf, due October 13,	175	00		
280	Dec'r 2	Wages of workmen for October, Christian Frank for glazing in	283	68		
		1819 and 1820, Wages of workmen for November,	10 283	65 68		Print Coulors
282	23	John Marley, balance for cord-	34	56		
		ing 1614 cords of wood, William Davis for chandlery,	269	40		
		Samuel P. Wetherill for emery, whiting, oil, &c.,	25	00		all the second
283	5	Israel Roberts for copper work to south engine,	37	80		
	R P		1 /	1		1

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# 564. (1820, page 14.)

					1	
No.	1820.	ALL IN THE REAL PROPERTY OF	Dolls.	c.	Dolls.	c.
283	Dec'r 23	Thomas Hodgson, balance for - /				
		1107 1/4 cords of wood,	453	74	N. Trick	
1403	日本にいいなど	E. & T. Dallett for 1820 1bs.	1.1.1		per l'éction	
		of tallow, and 227 lbs. of candles,	208	65	1. 16 1.	
284	30		200	00		
	March March	brick work to boilers,	12	75		
		Ann Smith, balance for hauling			Sec. 14	
		780 cords of wood, delivered	1. 1. 1.	NY AL	A Steel	
	A and a state of the	in 1820,	70			
	and the	Wages of workmen for December,	319	75		
· • *					12750	45
						15
	Contracting fight		18	14		
	a the state	and the second states in the	1.			
					1.2.4.1	
	Constant and			1		
		and the state of the		1		
		INCIDENTAL EXPENSES.				
	120-11-121					
240	Feb'y 21	Arabella Jones, 6 months	-	1		
		ground rent, due Feb.1,1820,	13	33	Dario (1	
244	April 1	Frederick Graff for sundry	11.221		She China	
OAC	17.	small bills paid by him, -	73	17	Sec. Sec.	
245 247	May 1	John Carter for hack hire, - Isaac Milnor for sundries,	54 46	00		
250	20	J.S.Lewis, and J.Bacon, post-		100		1
146	Salar State	age, &c. paid by them,	5	83		
	1 Second Second	Lydia R. Bailey for printing		1		-
	See See Vinge	250 copies of reports, con-		57 1	m part	
	I THE THORN	Villian Jackson for advertising	60	74		
1	1 March 19 March	1n.1819,	6	67		
253	June 7	John Carter for hack hire,	73	00		
257	July 3	John Carter for hack hire,	87	00	1.3.0	
259	18		. 9	00		
263	Aug. 2	Sundry agreements,		00		
1 - 1		sundry agreements,	5	00		
	11 1 1 63	John Kenworthy for painting	1 1 1			
	and the state of	shop signs,	7	50		1.
264	5	Matthew Randall for recording	103	50		
265	12	deeds, stationary, &c., Arabella Jones for 6 months'	100	00		
		ground rent, due Aug. 1, -	13	33		
268	Sept. 1	J. H. Cunningham for permit	1999			
	The start of the	book and notices,	12	00		
		Horace Binney for drawing agree-	140	00		
273	Oct'r 2	ments and advice,	140	00		
		small bills paid by him,	177	22		
	1	John Carter for hack hire,	100	00		
	1		1		1	1

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3

1 - 1 - 1	1	and the second of the second of the	2		1. 1.1	
No.	1820.		Dolls.	C.	Dolls.	C .
276	Oct'r 28	Horace Binney, retaining fee,	1 Barrow			
000	Desta 0	and professional services,	100	00		
280	Dectr. 2	Frederick Enringer for poor		00	1. 1	1.2.1
		tax for 1320,	18	20		120
		ance to Nov. 28,	1.24	50		
		Francis Mitchell for poor tax		1		
	A State States	Fair Mount estate, for 1820,	29	60	Sec. 1	
		Isaac Milnor's estate for sun-				1 - A.
282	07	dries,	139	32		
606	23	Abraham Small for register book of water rents, &c., -	74	62		
1.3		George Hyde & Son for incident-	142	06		alater a
		als	23	50		
. 283		John Binns for advertising in		TS is	Latin .	
		1820,	4	67		
284	50	Samuel Relf, agent, for adver-	12.14			-
	1 Schutzer	tising in 1820,		66		
		Frederick Graff for sundry small bills paid by him,	29	00		1
1.		Zachariah Poulson, advertising	57	100		
		in 1820,	7	66		
		Thomas Mitchell for drawing				
	and the desired as	sundry agreements,	29	00		
	Sec. 2	and the second state of the second state of the				
		1 The tage of the second secon	1	8	1573	11
		and the second of the second o		1	Lenie !	aller effit
		and a first state of the second	and the second		2010	ada, edin
		Ride 21 Contraction and a second		1	2010	ele de
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235	Jan'y 15	James Young, 6 months' salary,	25	00	1010	
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244	April 1	James Young, 6 months' salary, due Dec. 31, 1819, Frederick Graff, one quarter's salary,	500 -	00		
244 257	April 1 July 3	James Young, 6 months' salary, due Dec. 51, 1819, Frederick Graff, one quarter's salary,	1 1 1		1010	
244	April 1	James Young, 6 months' salary, due Dec. 31, 1819, Frederick Graff, one quarter's salary, James Young, 6 months' salary, Frederick Graff, one quarter's	500 - 25	00		
244 257 260	April 1 July 3 22	James Young, 6 months' salary, due Dec. 31, 1819, Frederick Graff, one quarter's salary, James Young, 6 months' salary, Frederick Graff, one quarter's salary,	500 -	00		
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244 257 260 274	April 1 July 3 22 Oct'r 2	James Young, 6 months' salary, due Dec. 31, 1819, Frederick Graff, one quarter's salary, James Young, 6 months' salary, Frederick Graff, one quarter's salary, Frederick Graff, one quarter's salary,	500 - 25	00		
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# 566. (1820, page 16.)

# DAM, LOCKS, &c.

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No.         1620.         Dolls.         C. Dolls. <thc. dolls.<="" th="">         C. Dolls.         <thc. dolls.<="" th="" th<=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thc.></thc.>							
234       Jan'y 6       Ariel Cooley, on account for building Dam, Locks, &c., -       2000       00         235       15       Ditto, ditto,       1000       00         236       22       Ditto, ditto,       1000       00         237       28       Ditto, ditto,       1000       00         239       Peb'y 5       Ditto, ditto,       2000       00         240       21       Ditto, ditto,       2000       00         243       15       Ditto, ditto,       2000       00         244       April 1       Ditto, ditto,       2000       00         245       13       Ditto, ditto,       2000       00         246       29       Ditto, ditto,       2000       00         250       20       J.S.Levis and J.Bacon, for 10       6       6         251       27       Ariel Cooley, on account,       3000       00         253       June 7       Feter A. L. Quick for 4500       50       50         254       17       Themas Conarroe, attendance       0       50       50         254       17       Themas Conarroe, attendance       00       00       26	No.	1820.		Dolls.	C.	Dolls.	C.
building Dam, Locks, &c., -         2000         00           235         15         Ditto,         ditto,         1000         00           237         28         Ditto,         ditto,         1000         00           239         Peb'y 5         Ditto,         ditto,         2000         00           240         21         Ditto,         ditto,         2000         00           241         March 2         Ditto,         ditto,         2000         00           243         Is         Ditto,         ditto,         2000         00           244         April 1         Ditto,         ditto,         2000         00           245         13         Ditto,         ditto,         2000         00           246         29         Ditto,         ditto,         2000         00           250         20         J.S.Lewis and J.Bacon, for 10         00         00           251         27         Ariel Cooley, on account,         3000         00           253         Juw 7         Peter A. L. Quick for 4500          376         33           254         17         Thomas Conarrow, acco	234	Jan'y 6	Ariel Cooley, on account for	and the		L'ist. L	
235       22       Ditto;       ditto;       1000       00         237       28       Ditto;       ditto;       1000       00         240       21       Ditto;       ditto;       2000       00         241       March 2       Ditto;       ditto;       2000       00         244       April 1       Ditto;       ditto;       2000       00         244       April 1       Ditto;       ditto;       2000       00         244       April 1       Ditto;       ditto;       2000       00         245       13       Ditto;       ditto;       2000       00         246       May 13       Ditto;       ditto;       2000       00         250       20       J.S.Lewis and J.Bacon, for 10       00       00         251       27       Ariel Cooley, on account,       5000       00         251       27       Ariel Cooley on account,       5000       00         254       17       Thomas Conarroe, attendance       0       naise ges of men, &c.,       61       38         254       17       Thomas Conart, \$750,       61       38       2		Contraction of the		2000	00		
237       28       Ditto,       ditto,       1000       00         239       Peb'y 5       Ditto,       ditto,       4000       00         240       21       Ditto,       ditto,       2000       00         241       March 2       Ditto,       ditto,       2000       00         243       15       Ditto,       ditto,       2000       00         244       April 1       Ditto,       ditto,       2000       00         245       13       Ditto,       ditto,       2000       00         246       29       Ditto,       ditto,       2000       00         246       29       Ditto,       ditto,       2000       00         250       20       S.S.Lewis and J.Bacon, for 10       casks Roman cement,       3000       00         251       27       Ariel Cooley, on account,       3000       00       feet, 3 by 4, scantling, -       31       50         253       June 7       Feet A. L. Quick for 4500       feet, 3 by 4, scantling, -       3000       00         254       17       Thomas Conarroe, attendance       on account,       3000       00	235	15	Ditto, ditto,	1000	00		
239       Feb'y 5       Ditto, ditto,       4000       00         240       March 2       Ditto, ditto,       2000       00         241       March 2       Ditto, ditto,       2000       00         243       15       Ditto, ditto,       2000       00         244       April 1       Ditto, ditto,       2000       00         245       13       Ditto, ditto,       2000       00         246       29       Ditto, ditto,       2000       00         246       29       Ditto, ditto,       2000       00         250       20       J.S.Lewis and J.Bacon, for 10       00       00         251       27       Ariel Cooley, on account,       3000       00         253       June       7       Peter A. L. Quick for 4500       31       50         254       17       Thomas Conarroe, attendance       0       00       00       00         254       17       Thomas Conarroe, attendance       0       00       00       00         255       24       Ditto, ditto,       2000       00       00         256       24       Ditto, ditto,       2000 </th <th>and the second s</th> <th>22</th> <th></th> <th>1000</th> <th></th> <th></th> <th></th>	and the second s	22		1000			
240       21       Ditto,       ditto,       2000       00         241       March 2       Ditto,       ditto,       2000       00         243       15       Ditto,       ditto,       2000       00         244       April 1       Ditto,       ditto,       2000       00         244       April 1       Ditto,       ditto,       2000       00         245       13       Ditto,       ditto,       2000       00         246       29       Ditto,       ditto,       2000       00         250       20       J.S.Lewis and J.Bacon, for 10        2000       00         251       27       Ariel Coley, on account,       3000       00         255       June 7       Peter A. L. Quick for 4500       5000       00         254       17       Thomas Conarree, attendance       5000       00         254       17       Thomas Conarree, attendance       5000       00         255       24       Ditto,       ditto,       2000       00         256       24       Ditto,       ditto,       2000       00         258       July			Ditto, ditto,				
243       March 2       Ditto, ditto, 2000 00         243       15       Ditto, ditto, 2000 00         244       April 1       Ditto, ditto, 2000 00         245       13       Ditto, ditto, 2000 00         246       29       Ditto, ditto, 2000 00         246       29       Ditto, ditto, 2000 00         245       13       Ditto, ditto, 2000 00         246       May 13       Ditto, ditto, 2000 00         250       20       J.S.Lewis and J.Bacon, for 10         casks Roman cement,       3000 00         255       June 7       Peter A. L. Quick for 4500         feet, 3 by 4, scantling, -       31 50         John Laforge for 53100 feet       of oak joist, &c., 376 35         ariel Cooley on account,       2000 00         254       17       Thomas Conarroe, attendance         on inspection of joist, wa-       ges of men, &c.,       61 36         47       Ditto, ditto,       2000 00         255       24       Ditto, ditto,       2000 00         256       24       Ditto, ditto,       2500 00         261       26       Ditto, ditto,       2500 00         261			Ditto, ditto,				
243       15       Ditto;       ditto;       2000       00         244       April       1       Ditto;       ditto;       2000       00         245       13       Ditto;       ditto;       2000       00         246       29       Ditto;       ditto;       2000       00         246       May       13       Ditto;       ditto;       3000       00         248       May       13       Ditto;       ditto;       3000       00         246       May       13       Ditto;       ditto;       3000       00         250       20       J.S.Lewis and J.Bacon, for 10       0       0       0         251       27       Ariel Cooley on account,       3000       00         253       June       7       Peter A. L. Quick for 4500       7       7         254       17       Thomas Conarros, attendance        3000       00         255       24       Ditto;       ditto;       2000       00         256       July       8       Ditto;       ditto;       2500       00         261       26       Ditto;			Ditto, ditto,				
244       April 1       Ditto, ditto,       2000 00         245       13       Ditto, ditto,       2000 00         246       29       Ditto, ditto,       2000 00         250       20       J.S.Lewis and J.Bacon, for 10       casks Roman coment,       3000 00         251       27       Ariel Cooley, on account,       3000 00         255       June 7       Peter A. L. Quick for 4500       feet, 3 by 4, scantling, -       31 50         John Laforge for 55100 feet       of oak joist, &c.,       3000 00       35         254       17       Thomas Conarroe, attendance       on inspection of joist, Wa-       ges of men, &c.,       81 38         255       24       Ditto, ditto,       2000 00       36         255       24       Ditto, ditto,       3000 00       36         261       26       Ditto, ditto,       3000 00       36         261       26       Ditto, ditto,       3000 00       36         261       26       Ditto, ditto,       2000 00       36         261       26       Ditto, ditto,       2500 00       36         264       Aug. 5       Ditto, ditto,       2500 00       30     <						1 Statistics	1
245       13       Ditto,       ditto,       2000       00         246       29       Ditto,       ditto,       2000       00         250       20       J.S.Lewis and J.Bacon, for 10       100       00         251       20       Ariel Cooley, on account,       5000       00         253       June       7       Peter A. L. Quick for 4500       100       00         254       17       Thomas Conarce, attendance       0       151       50         254       17       Thomas Conarce, attendance       0       1155       500       00         255       24       Ditto,       ditto,       5000       00         254       17       Thomas Conarce, attendance       0       1155       115         255       24       Ditto,       ditto,       5000       00         256       24       Ditto,       ditto,       2500       00         261       26       Ditto,       ditto,       2500       00         264       Aug:       5       Ditto,       ditto,       2500       00         264       Aug:       5       Ditto,       ditto,       <						1.000	
246       29       Ditto,       ditto,       2000       00         246       May       13       Ditto,       ditto,       3000       00         250       20       J.S.Lewis and J.Bacon, for 10        3000       00         251       27       Ariel Cooley, on account,       3000       00         255       June       7       Peter A. L. Quick for 4500        376       33         254       17       Thomas Conarroe, attendance       of oak joist, &c.,       376       35         254       17       Thomas Conarroe, attendance       on inspection of joist, wa-        3000       00         255       24       Ditto,       ditto,       2000       00         268       July 8       Ditto,       ditto,       3000       00         261       26       Ditto,       ditto,							
248       May       13       Ditto,       ditto,       3000       00         250       20       J.S.Lewis and J.Bacon, for 10       00       00         251       27       Ariel Cooley, on account,       3000       00         255       June       7       Peter A. L. Quick for 4500       100       00         255       June       7       Peter A. L. Quick for 4500       31       50         256       June       7       Peter A. L. Quick for 4500       31       50         256       June       7       Peter A. L. Quick for 4500       31       50         256       June       7       Peter A. L. Quick for 4500       31       50         256       June       7       Poter A. L. Quick for 4500       31       50         257       John Laforge for 53100 feet       31       50       30       00         258       Ariel Cooley on account,       81       38       38         Ariel Cooley on account,       2500       00       30       00       300       00         256       July       8       Ditto,       ditto,       2500       00       30       00       30			Ditto, ditto,				- B.
250       20       J.S.Lewis and J.Bacon, for 10 casks Roman cement,		the second second second					
251         27         Ariel Cooley, on account,         3000         00           255         June         7         Peter A. L. Quick for 4500         50           feet, 3 by 4, scantling, -         31         50           John Laforge for 55100 feet         of oak joist, &c.,         376         33           Ariel Cooley on account,         3000         00           254         17         Thomas Conarroe, attendance         0         00           0         nispection of joist, Warges of men, &c.,         81         38           255         24         Ditto,         ditto,         3000         00           260         22         Ditto,         ditto,         3000         00           261         26         Ditto,         ditto,         2000         00           261         26         Ditto,         ditto,         2500         00           264         Aug. 5         Ditto,         ditto,         2500         00           265         29         William Briggs on account, for         raising Canal and Locks 18         600         00           266         15         Ditto, ditto,         2500         00         270				2000	00		
251       27       Ariel Cooley, on account,       3000       00         255       June       7       Peter A. L. Quick for 4500       50         John Laforge for 53100 feet       of oak joist, &c.,       31       50         John Laforge for 53100 feet       of oak joist, &c.,       376       33         254       17       Thomas Conarroe, attendance       00       00         255       24       Ditto, ditto,       2000       00         258       July 8       Ditto, ditto,       3000       00         260       22       Ditto, ditto,       3000       00         261       26       Ditto, as per contract for raising the Dam 18 in-       ches higher, \$4250, and       00         264       Aug. 5       Ditto, ditto, 1750       00       266         266       15       Ditto, ditto,       2500       00         268       Sept 1       Ariel Cooley on account, for       raising Canal and Locks 18       600       00         268       Sept 1       Ariel Cooley on account,       2500       00       260         268       Sept 1       Ariel Cooley on account,       2500       00       260 <td< td=""><td>200</td><td>20</td><td></td><td>100</td><td>00</td><td></td><td></td></td<>	200	20		100	00		
255       June       7       Peter A. L. Quick for 4500       31       50         feet, 3 by 4, scantling, -       John Laforge for 55100 feet       376       33         0f oak joist, &c.,       376       33         254       17       Thomas Conarroe, attendance       3000       00         255       24       Ditto, ditto,       2000       00         255       24       Ditto, ditto,       2000       00         256       24       Ditto, ditto,       2000       00         258       July 8       Ditto, ditto,       2000       00         261       26       Ditto, ditto,       2500       00         261       26       Ditto, ditto,       2500       00         261       26       Ditto, ditto,       2500       00         264       Aug. 5       Ditto, ditto,       2500       00         266       15       Ditto, ditto,       2500       00         266       15       Ditto, ditto,       2500       00         266       15       Ditto, ditto,       2500       00         268       Sept 1       Arisl Cooley on account, for       70	251	27		State Stat			
feet, 3 by 4, scantling, -       31 50         John Laforge for 53100 feet       of oak joist, &c.,       376 33         Ariel Cooley on account, -       3000 00         254       17 Thomas Conarroe, attendance       on inspection of joist, wa-         ges of men, &c.,       81 38         Ariel Cooley on account,       2000 00         255       24 Ditto, ditto,       3000 00         256 July 8 Ditto, ditto,       3000 00         260 22 Ditto, ditto,       3000 00         261 26 Ditto, as per contract for raising the Dam 18 in-       on account of former         contract, \$750, 5000 00       00         264 Aug. 5 Ditto, ditto,       2500 00         266 15 Ditto, ditto,       2500 00         267 29 William Briggs on account, for raising Canal and Locks 18       600 00         268 Sept 1 Ariel Cooley on account,       2500 00         268 Sept 1 Ariel Cooley on account,       2500 00         270 30 Ariel Cooley on account,       2500 00         271 30 Ariel Cooley on account,       2500 00         272 0ct'r 2 Ditto, ditto,       2500 00         273 70 70 30 Ariel Cooley on account, for raising Canal and Locks, 600 00       00         272 0ct'r 2 Ditto, ditto,       2500 00		Alies					
John Laforge for 53100 feet         376 33           Ariel Cooley on account,         5000 00           254         17 Thomas Conarroe, attendance         5000 00           on inspection of joist, Wa- ges of men, &c.,         81 38           Ariel Cooley on account,         2000 00           255         24 Ditto, ditto,         2000 00           256 July 8 Ditto, ditto,         2000 00           260 22 Ditto, ditto,         2500 00           261 26 Ditto, as per contract for raising the Dam 18 in- ches higher, \$4250, and on account of former         5000 00           264 Aug: 5 Ditto, ditto,         2500 00           266 15 Ditto, ditto,         2500 00           267 29 William Briggs on account, for raising Canal and Locks 18 inches higher,         600 00           268 Sept 1 Ariel Cooley on account,         2500 00           270 30 Ariel Cooley on account,         2500 00           271 0ct'r 2 Ditto, ditto,         2500 00           272 0ct'r 2 Ditto, ditto,         2500 00           276 28 Ariel Cooley on account,         2500 00           276 28 Ariel C		A 1077 A 1		31	50	.,	
of oak joist, &c.,		Spin Autor					1
254       17       Thomas Conarroe, attendance on inspection of joist, Wa- ges of men, &c.,       5000       00         255       24       Ditto, ditto,       2000       00         255       24       Ditto, ditto,       3000       00         256       July 8       Ditto, ditto,       3000       00         260       22       Ditto, ditto,       3000       00         261       26       Ditto, ditto,       2500       00         261       26       Ditto, ditto,       2500       00         264       Aug. 5       Ditto, ditto,       2500       00         266       15       Ditto, ditto,       2500       00         267       29       William Briggs on account, for raising Canal and Locks 18       600       00         270       30       Ariel Cooley on account,       2500       00         271       To raising Canal and Locks, 600       00       00       00	1			376	33		
254       17       Thomas Conarroe, attendance on inspection of joist, wa- ges of men, &c., 61       38         Ariel Cooley on account,       2000       00         255       24       Ditto, ditto,       3000       00         256       24       Ditto, ditto,       3000       00         256       24       Ditto, ditto,       3000       00         260       22       Ditto, ditto,       3000       00         261       26       Ditto, as per contract for raising the Dam 18 in- ches higher, \$4250, and on account of former contract, \$750,       5000       00         264       Aug:       5       Ditto, ditto, -       2500       00         266       15       Ditto, ditto,       2500       00         268       Sept       1       Ariel Cooley on account,       2500       00         269       16       Ditto, ditto,       2500       00         271       So       Ariel Cooley on account,				3000	00	1	
ges of men, &c.,	254	17					1.731
Ariel Cooley on account,       2000       00         255       24       Ditto,       ditto,       3000       00         260       22       Ditto,       ditto,       3000       00         260       22       Ditto,       ditto,       3000       00         261       26       Ditto,       ditto,       2500       00         261       26       Ditto, as per contract for raising the Dam 18 in- ches higher, \$4250, and on account of former       00         264       Aug.       5       Ditto,       ditto,       1750       00         266       15       Ditto,       ditto,       2500       00         266       15       Ditto,       ditto,       2500       00         266       15       Ditto,       ditto,       2500       00         268       Sept 1       Ariel Cooley on account, for raising Canal and Locks 18       600       00         270       20       Ariel Cooley on account,       2500       00         271       Ditto,       ditto,       2500       00         272       Oct'r 2       Ditto,       ditto,       2500       00         273			on inspection of joist, wa-				
255       24       Ditto,       ditto,       3000       00         258       July 8       Ditto,       ditto,       3000       00         260       22       Ditto,       ditto,       2500       00         261       26       Ditto, as per contract for raising the Dam 18 in- ches higher, \$4250, and on account of former contract, \$750,       5000       00         264       Aug. 5       Ditto,       ditto,       2500       00         266       15       Ditto,       ditto,       2500       00         266       15       Ditto,       ditto,       2500       00         268       Sept 1       Ariel Cooley on account, for raising Canal and Locks 18       600       00         268       Sept 1       Ariel Cooley on account,       2500       00         270       30       Ariel Cooley on account,       2500       00         271       0ct'r 2       Ditto, ditto,       2500       00         273       Thomas Clarke, 140 days super- intending the works,       280       00         276       28       Ariel Cooley on account,       2500       00         276       28       Ariel Cooley on account, <t< th=""><th></th><th></th><th>ges of men, &amp;c.,</th><th>in the second seco</th><th></th><th>1</th><th></th></t<>			ges of men, &c.,	in the second seco		1	
258July8Ditto;ditto;30000026022Ditto; as per contract for raising the Dam 18 in- ches higher, \$4250; and on account of former contract, \$750;500000264Aug:5Ditto;ditto;17500026615Ditto;ditto;25000026615Ditto;ditto;17500026729William Briggs on account; for raising Canal and Locks 18 inches higher,60000268Sept1Ariel Cooley on account; for raising Canal and Locks, 8 000000268Sept1Ariel Cooley on account; for raising Canal and Locks, 8 00000027030Ariel Cooley on account; for raising Canal and Locks, 80000271Oct'r 2Ditto; ditto; Ditto; ditto;250000273Thomas Clarke, 140 days super- intending the works,2800027628Ariel Cooley on account; Frederick Erdman on account; for planking south face of Dam,							1 2
26022Ditto,ditto,25000026126Ditto, as per contract for raising the Dam 18 in- ches higher, \$4250, and on account of former contract, \$750,500000264Aug:5Ditto,ditto,17500026615Ditto,ditto,25000026615Ditto,ditto,25000026729William Briggs on account, for raising Canal and Locks 18 inches higher,60000268Sept 1Ariel Cooley on account, for raising Canal and Locks, 6000026916Ditto,ditto, 250025000027030Ariel Cooley on account, for raising Canal and Locks, 60000273Thomas Clarke, 140 days super- intending the works, 2800027628Ariel Cooley on account, 250025000027628Ariel Cooley on account, intending the works, 2800027628Ariel Cooley on account, intending south face of Dam,7500						1	
<ul> <li>261</li> <li>26 Ditto, as per contract for raising the Dam 18 in- ches higher, \$4250, and on account of former contract, \$750, 5000 00</li> <li>264 Aug. 5 Ditto, ditto, 1750 00</li> <li>266 15 Ditto, ditto, 2500 00</li> <li>267 29 William Briggs on account, for raising Canal and Locks 18 inches higher, 2500 00</li> <li>268 Sept 1 Ariel Cooley on account, 2500 00</li> <li>269 16 Ditto, ditto, 2500 00</li> <li>William Briggs on account, 2500 00</li> <li>270 30 Ariel Cooley on account, 2500 00</li> <li>272 Oct'r 2 Ditto, ditto, 2500 00</li> <li>273 Thomas Clarke, 140 days super- intending the works, 280 00</li> <li>276 28 Ariel Cooley on account, 2500 00</li> <li>William Briggs on account, for raising Canal and Locks, 2500 00</li> <li>276 28 Ariel Cooley on account, 2500 00</li> <li>William Briggs on account, for raising Canal and Locks, 1000 00</li> <li>276 28 Ariel Cooley on account, 2500 00</li> <li>William Briggs on account, for raising Canal and Locks, 1000 00</li> <li>William Briggs on account, for raising Canal and Locks, 1000 00</li> <li>Prederick Erdman on account, for raising Canal and Locks, 1000 00</li> <li>Pan, 75 00</li> </ul>							
raising the Dam 18 in- ches higher, \$4250, and on account of former contract, \$750, 5000 00 266 15 Ditto, ditto, 1750 00 266 15 Ditto, ditto, 2500 00 267 29 William Briggs on account, for raising Canal and Locks 18 inches higher, 2500 00 268 Sept 1 Ariel Cooley on account, 269 16 Ditto, ditto, 2500 00 William Briggs on account, - for raising Canal and Locks, 600 00 270 30 Ariel Cooley on account, 273 Ditto, ditto, 2500 00 276 28 Ariel Cooley on account, 276 29 Ditto, ditto, 2500 00 276 Ditto, ditto, 2500 00				2500	00		
ches higher, \$4250, and on account of former contract, \$750, 5000 00 266 15 Ditto, ditto, 1750 00 266 15 Ditto, ditto, 2500 00 267 29 William Briggs on account, for raising Canal and Locks 18 inches higher, 600 00 269 16 Ditto, ditto, 2500 00 William Briggs on account, 2500 00 William Briggs on account, for raising Canal and Locks, 600 00 270 30 Ariel Cooley on account, 3500 00 272 Oct'r 2 Ditto, ditto, 3500 00 273 Thomas Clarke, 140 days super- intending the works, 280 00 276 28 Ariel Cooley on account, 2500 00 William Briggs on account, for raising Canal and Locks, 2500 00 William Briggs on account, 75 00	201	20					1
On account of former contract, \$750,500000264Aug. 5Ditto, Ditto, 266ditto, 175017500026615Ditto, Taising Canal and Locks 1860000268Sept 1Ariel Cooley on account, Tornaising Canal and Locks, 186000026916Ditto, Tornaising Canal and Locks, 6000027030Ariel Cooley on account, for raising Canal and Locks, 60000272Oct'r 2Ditto, Thomas Clarke, 140 days super- intending the works, Ariel Cooley on account, 25002800027628Ariel Cooley on account, for planking south face of Dam,100000							Nat
264Aug.5Ditto, Ditto, Ditto, ditto, ditto, ditto, ditto, 26615Ditto, Ditto, ditto, raising Canal and Locks 18 inches higher, Ditto, ditto, raising Canal and Locks 18 for raising Canal and Locks 18 Ditto, ditto, <b< th=""><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th></b<>						1	
264Aug. 5Ditto, ditto, 25000026615Ditto, ditto,25000026729William Briggs on account, for raising Canal and Locks 1860000268Sept 1Ariel Cooley on account,25000026916Ditto, ditto,25000027030Ariel Cooley on account,25000027130Ariel Cooley on account,350000272Oct'r 2Ditto, ditto,250000273Thomas Clarke, 140 days super- intending the works,2800027628Ariel Cooley on account,25000027628Ariel Cooley on account,7500				5000	00		
26615Ditto,ditto,25000026729William Briggs on account, for raising Canal and Locks 1860000268Sept 1Ariel Cooley on account,25000026916Ditto, ditto,25000027030Ariel Cooley on account, for raising Canal and Locks, 600002720ct'r 2Ditto, ditto,350000273Thomas Clarke, 140 days super- intending the works,2800027628Ariel Cooley on account,25000027628Ariel Cooley on account, for raising Canal and Locks,1000009Ditto, ditto,7500	264	Aug. 5			100		1
26729William Briggs on account, for raising Canal and Locks 18 inches higher,60000268Sept 1Ariel Cooley on account, Ditto, ditto,25000026916Ditto, ditto, For raising Canal and Locks, 6000027030Ariel Cooley on account, for raising Canal and Locks, 600002720ct'r 2Ditto, ditto, Ditto, ditto,250000273Thomas Clarke, 140 days super- intending the works, 2800027628Ariel Cooley on account, Ditto, ditto,25000027628Ariel Cooley on account, Thomas Clarke, 140 days super- intending the works, 2800027628Ariel Cooley on account, Toplanking south face of Dam,100000				and the second second	10		
268Sept 1raising Canal and Locks 18 inches higher,6000026916Ditto, ditto,25000027030Ariel Cooley on account, for raising Canal and Locks, 6000027130Ariel Cooley on account,3500002720ct'r 2Ditto, ditto,2500002737homas Clarke, 140 days super- intending the works,2800027628Ariel Cooley on account,25000027628Ariel Cooley on account,25000027628Ariel Cooley on account, for raising Canal and Locks,10000027628Ariel Cooley on account, for raising Canal and Locks,10000027628Ariel Cooley on account, for raising Canal and Locks,100000			William Briggs on account, for				
268Sept 1Ariel Cooley on account,25000026916Ditto, ditto,250000William Briggs on account, for raising Canal and Locks, for raising Canal and Locks, Ariel Cooley on account,6000027030Ariel Cooley on account,350000272Oct'r 2Ditto, ditto,250000273Thomas Clarke, 140 days super- intending the works,2800027628Ariel Cooley on account,250000William Briggs on account, for raising Canal and Locks,100000Prederick Erdman on account, for planking south face of Dam,7500					1		1
26916Ditto, ditto,250000William Briggs on account, for raising Canal and Locks, for raising Canal and Locks, Ditto, ditto,600002720ct'r 2Ditto, ditto,350000273Thomas Clarke, 140 days super- intending the works,2800027628Ariel Cooley on account,25000027628Ariel Cooley on account,250000William Briggs on account, for raising Canal and Locks,100000Prederick Erdman on account, for planking south face of Dam,7500	040	0	inches higher,	12 Contract 1 Contract		1	
27030William Briggs on account, for raising Canal and Locks, Ariel Cooley on account,600002720ct'r 2Ditto, Ditto, Thomas Clarke, 140 days super- intending the works,2800027628Ariel Cooley on account, Intending the works, William Briggs on account, for raising Canal and Locks, Prederick Erdman on account, for planking south face of Dam,100000			Ariel Cooley on account,	State of the state	13		and
27030Ariel Cooley on account,350000272Oct'r 2Ditto, ditto,250000273Thomas Clarke, 140 days super- intending the works,2800027628Ariel Cooley on account,25000027628Ariel Cooley on account,250000William Briggs on account, for raising Canal and Locks,100000Prederick Erdman on account, for planking south face of Dam,7500	202	70		2500	00		
27030Ariel Cooley on account,350000272Oct'r 2Ditto, ditto,250000273Thomas Clarke, 140 days super- intending the works,2800027628Ariel Cooley on account,250000William Briggs on account, for raising Canal and Locks,100000Prederick Erdman on account, for planking south face of Dam,7500				1 000	00	1 4 4 4 6 1 1 3	1
272Oct'r 2Ditto, ditto,250000273Thomas Clarke, 140 days super- intending the works,2800027628Ariel Cooley on account, Villiam Briggs on account, for raising Canal and Locks,250000Prederick Erdman on account, for planking south face of Dam,7500	270	30		12	10		
273Thomas Clarke, 140 days super- intending the works,280 0027628Ariel Cooley on account, 2500 002500 00William Briggs on account, for raising Canal and Locks, Prederick Erdman on account, for planking south face of Dam,1000 00			Ditto. ditto			1	S HOLD
27628intending the works, Ariel Cooley on account, 25002800028Ariel Cooley on account, William Briggs on account, for raising Canal and Locks, Prederick Erdman on account, for planking south face of Dam,100000		0001 10		2000	100		1
276 28 Ariel Cooley on account, 2500 00 William Briggs on account, for raising Canal and Locks, 1000 00 Frederick Erdman on account, for planking south face of Dam, 75 00				280	00		an sea
William Briggs on account, for raising Canal and Locks, 1000 00 Prederick Erdman on account, for planking south face of Dam, 75 00	276	28		A Contraction			1
raising Canal and Locks, 1000 00 Frederick Erdman on account, for planking south face of Dam, 75 00					-	1	
Frederick Erdman on account, for planking south face of Dam, 75 00			raising Canal and Locks,	1000	00		
for planking south face of Dam, 75 00			Prederick Erdman on account,				1
			for planking south face of		-		1
	-	17		75	100		
277 Nov'r 1 John Warnick for 959 1bs. of	277	NOA.L T		1	1		
Large Spikes,		1	large spikes,	86	31		1
				1	2		1

567. (1820, page 17.)

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		1				
No.	1820.	and the second	Dolls.	C.	Dolls.	C.
278	Nov'r 1	Ariel Cooley on account,	2500		or of sis de ho .	v.
	are to the	Frederick Erdman on account,	75	00		
	in the second		10	00		
		William Briggs, balance for	-	00	1.15 3.55.	1.1.1
	a la fact de la serie	raising Canal and Locks, -	1000	00	1. 1. 2 1. 1.	÷.,
279	25	Henry Nixon, interest due on	1.1.1.1.1	53		
2.05	1. S	\$4000 for the purchase of	Colorado"	1 Carl		
11.1	a Chine and a	the inlet of Race, due Aug-		1 Antal		
Ro Sec.	A State of the sta	ust 25, 1820	240	00		
		Ariel Cooley on account, '	4000	00		1
12. 3		Frederick Erdman on account,	100	00		1
280	Dec'r 2	J.S.Lewis & J.Bacon for 18	200	00		
			300	00		. 5
		casks of Roman cement,	162	00		1
	a start and	Thomas Clarke, 30 days super-				
Sec. 1.	The states	intending the works,	60	00		
246	and a line she i	Watson & Bunting for 1362 feet	1.11			
		of lumber, and hauling,	21	32	1 4	1
		Samuel Hains for measuring				-
		rocks to be removed, &c.,	23	50		
281	9	Ariel Cooley on account,	3000	00		1. 1. 1.
282	23	Robert Brooke for levelling				
wow !	and a		7	00		
		Dam, Locks, Canal, &c.,		00		
	198-1	Lancaster Schuylkill Bridge				
		Company, 1 year's toll for	. 15			
		1820,	13	50		
283		Conarroe & Scott for survey				
		and plan of inlet of Canal,				
		80.,	14	00		
		Ariel Cooley on account,	3000	00		
284	30	John Warnick for spikes for				
		planking south face of Dam,	105	96		
	a shirt where the		200	200		
191	1 Part - Siel	Frederick Erdman, balance for				
1		planking 1058 ft. 6 in. of	000	0.		
		Dam,	278	81		
		Market and Andrew States of the		-		
	1-100 Broken (1-10)	and the second			81081	61
	Constant State					
				1012		
		endernerbregin, medenter den ner förman annen at men anderne an				
		And the second of the second se		200		
		IRON MAIN.				
		IRUN MAIN.	Lee al a			
		a los a la de la				
		a state of the sta	6			
		and the second	1.1.1.1.1			
238	Feb'y 1	Wages of workmen for January,				
		1820,	102	50		
		Ann Smith for sundry hauling	1			
-		in Dec. 1819 and Jan. 1820,	24	00		
241	March 2	Wages of workmen for February,	100	74		
Ref Stale	and out a	J.S.Lewis & J.Bacon for the	200	a de		
	1		3.403	00		
010		payment for lead,	1421	100		
242	7	Samuel Richards, on account	1000	00		
		for iron pipes,	4000	00		
	· · · · · ·		×			
				8		

568. (1820, page 18.)

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		8		XC		1	
No.	1820.			Dolls.	C.	Dolls.	C.
244	April		Stilwaggon & Knight for 75			1	
		- 1	bushels of coals,	30	00		
No.		-	Ann Smith for hauling iron		1	1 of the l	
Stern .			pipes,	33	25	1206 2.1.	
245		13		00	AU.		
1540		70	Daniel Large for hydraulic	3.000	lan	1	
100			proving pump,	134	89	1	
			Samuel Richards, on account		111		
	and the second		for iron pipes,	3500	00	1	
247	May	1	Thomas Sparks for 40 C. O gr.	a state	1 0/1	1	
		11.	24 1b. of pig lead,	321	71	1	
1984		antes .	Ann Smith for hauling pipes,		1 day	1. 1	
			clearing turnpike, &c. in	and the second			
111			ápril,	83	43		
100		-	Wages of workmen for April,	477	66	1	
249		17					
		-	for iron pipes,	1000	00		
250		20		20000	~~		
AUV		AU	J.S.Lewis & J.Bacon, balance	1211			
13.51			of acceptance for the pay-	00	07		
1.175.1			ment of lead,		91		
			William D. Caldwell, 2/3ds pay-				
			ment for a lot of ground, -	1110	10		
252	June	1	William Somerville for sundry			- · · · · · · · · · · · · · · · · · · ·	
			castings,	43	56		
-		1	Ann Smith for hauling pipes,				
1102		1000	stone off the turnpike, &c.,	81	89		
			Wages of workmen for May,	559	53		
254		17		111 -			
		-	purchase of lead and insu-			201	
12		1	rance,	1224	78		
255	1 4	24	Ditto, ditto, for the -				
800		60°5	payment of iron pipes from	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-	
			London,	1000	00		
nem	7 7	72				1	
257	July	3	Ann Smith for hauling pipes,	63	87		
3			&c., in June,		1		
	14210197	-	Wages of workmen for June, -	689	40		
258		8	Robert Brooke for surveying,				
	- States		and plans of Callowhill St.,	187	7.5		
259		18	Abraham Barker for 3 T. 16 C.				
		100	0 qr. 4 1b. of lead,	558	87		
			Thomas Sparks for 1 T. do.,	150	00		
263	Aug.	2	Ditto, for 3 do.,	- 450	00	A State of the	
			Ann Smith for hauling pipes,				
			&c. in July,	75	56		
			Wages of workmen for July,	754	561		
			J.S.Lewis & J.Bacon, freight			and and	
		. 01	of iron pipes, lead, &c., -	223	51		
267	102.9.97	29	Samuel Richards on account,				
			for iron pipes,	1000	001		
268	Sept.	1	R. E. Smith, 39 days' wharfage				
800	Bobo.	*	for iron pipes in 1819 and				
	1 Marshill	1.		58	50		
			1820,	00	001		
			Ann Smith for hauling pipes,	20	00		
			stones, &c.,	36			
-	10.11	-	Wages of workmen for August,	688	99		
273	Oct'r	2	Joseph Caskey for whiskey,	75	00		

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(Second

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# 569. (1820, page 19.)

			and the second sec				
No.	1820.			Dolls.	σ.	Dolls.	C.
273	Oct'r	2	Ann Smith for hauling pipes, &c. in September,	16	62		
1489			Frederick Graff for sundry	1 1 1 1 1			e
			small bills paid by him, - Wages of workmen for September,	20 396	05		
274			Samuel Richards, balance for		-		
			832 pipes of 20 inches, branches, &c.,	791	38		
277	Nov'r	1	Stephen Simmons for sundry	124	00		
			lumber,	70	53		
			on the turnpike, &c.,	29	37		
280	Dec'r	2	Patterson Hartshorne for 4 days' wharfage of iron pipes,	. 14	00		
			Edward W. Carr for 4 sets of		1 and		
			Cock screws,	29 13	37 42		
			Ann Smith for hauling gravel				
282	9	3	on the turnpike, &c., William Davis for ropes and	56	87		
~~~			spun yarn,	12	80		
			William Lehman for 336 lbs. of vitriol, and carboy,	31	74	Section 1	
	alars and a		Michael Williamson for wrought	30	00		
283			William Dilworth for spades,	20	00		
284		0	shovels, &c., Ariel Cooley for 113 1/2 per-	35	00		
		55.8					
60°2		50	ches of stone, at 25 cents,	28	37		
60°2		0	ches of stone, at 25 cents, Ann Smith for hauling gravel				
\$0*			ches of stone, at 25 cents,		37		
60°2			ches of stone, at 25 cents, Ann Smith for hauling gravel			21930	79
60°2		20	ches of stone, at 25 cents, Ann Smith for hauling gravel			21930	79
60°2		NO.	ches of stone, at 25 cents, Ann Smith for hauling gravel			21930	79
60°2		20	ches of stone, at 25 cents, Ann Smith for hauling gravel	34		21930	79
			ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c.,			21930	79
			ches of stone, at 25 cents, Ann Smith for hauling gravel	34		21930	79
		20	ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c.,	34		21930	79
		1	ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c., IRON PIPES.	34		21930	79
		And a second sec	ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c., IRON PIPES. John Newsham for turning 11 patterns,	34		21930	79
		And a second sec	ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c., IRON PIPES. John Newsham for turning 11 patterns, Edward W. Carr for 10 sets of screws for cocks,	34	12	21930	79
		And a state of the	ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c., IRON PIPES. John Newsham for turning 11 patterns, Edward W. Carr for 10 sets of screws for cocks, Charles Green for brass facings	34 / 8 75	12 , 00 56	21930	79
244	April	1	ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c., IRON PIPES. John Newsham for turning 11 patterns,	34	12	21930	79
	April	And a state of the	ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c., IRON PIPES. John Newsham for turning 11 patterns,	34 / 8 75 42	12 , , , , , , , , , , , , , , , , , , ,	21930	79
244	April	1	ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c., IRON PIPES. John Newsham for turning 11 patterns, Edward W. Carr for 10 sets of screws for cocks, Charles Green for brass facings and screws for ditto, Wages of workmen for March, - Edward W. Carr for 12 sets of screws for cocks, Wages of workmen making pat-	34 8 75 42 136 94	12 00 56 10 25 98	21930	79
244	April	1	ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c., IRON PIPES. John Newsham for turning 11 patterns,	34 / 8 75 42 136 94 71	12 00 56 10 25 98 25	21930	79
244	April	1	ches of stone, at 25 cents, Ann Smith for hauling gravel on the turnpike, &c., IRON PIPES. John Newsham for turning 11 patterns,	34 8 75 42 136 94	12 00 56 10 25 98	21930	79

# 570. (1820, page 20.

		1		1	1.1.1	1
No.	1820.		Dolls.	C.	Dolls.	C.
257	July 3	Charles Green for 120 1/4 1bs.	40	20	11.49	
		of brass castings, John Newsham, for turning pat-	48	10	大きのの	
		torns,	15	00		
		Ann Smith for hauling pipes,				
		&c. in June,	16	00		
020	T	Wages of workmen for June, - Reeve Lewis & Co. on account	86	55		
262	July 26	for iron pipes,	3000	00		
263	Aug. 2	Ann Smith for hauling pipes				
		in July,	16	00		-
267	29	Reeve Lewis & Co. on account for iron pipes,	600	-		1
271	Sept. 30	Ditto, do.,	4800	00		
273	Oct'r 2	Edward W. Carr for 16 sets of		-		
		cock screws,	121	00		
		Ann Smith for hauling pipes in September,	22	82		
		Wages of workmen for September,	200	54		
274	A State State	Samuel Richards for 15 pipes	400			
077	Nov'r 1	of 15 inches, &c., Stephen Simmons for lumber, -	477 59	52 41		
277	Nov'r 1	Charles Green for brass cast-		1		
		ings,	30	00		
	A Starte	Ann Smith for hauling pipes	5	13		and the second se
		in October,				
		connecting pipes, &c.,	355	20		
279	25	The second secon	0500	00	41 JOLGACO	
280	Dec'r 2	for iron pipes,	2500	00		
		8:0.,	13	25		
281	0	Wages of workmen for November,	355	20		LANG COM
POT		Reeve Lewis & Co. on account for iron pipes,	500	00		OSVSCOM
282	23	Michael Williamson for wrought				electrone electr
004	-	iron,	30	00		
284	30	Reeve Lewis & Co. balance for iron pipes, &c. delivered		No. of Concession, Name		Sector Contraction
		in 1820,	23	21		A. Constant
	1	Frederick Graff for sundry				
		small bills paid by him, Wages of workmen for December,	9	80		
		and a mortgan tot secondered	989 697 F	3	16940	79
						Continues of
	Contrast of the second s	. São din lais no no vid da car do ca ao vio co co ca ao via via via via via via via via via so no Notificado de deletido de com vio concentratoria.		and a second		ACCOUNTS OF
	ALCENT OF	BUILDINGS.				No.
				-		and the second se
265	Aug. 12		1000	00		
268	Sept. 1	quarrying out mill-seats, Ditto, do. for do., -	1000	00		
273	Oct'r 2	Frederick Graff for sundry				-
	Martin a	small bills paid by him, -	12	20		
277	Nov'r 1	Henry Nixon, 3 months' rent of store-house, &c. due Oct.	and a second	Common State		-
		15,	37	50		
284	Dec'r 30	Ann Smith for hauling mill-			0000	0
	8	wheel timber,	12	37	2062	07

# 571. (1820, page 21.)

### RESERVOIR.

No. 268	1820. Sept.	1	Wages of workmen cleansing north side of Reservoir, building wall, and intro-	Dolls.	c.	Dolls	c.
			ducing the 22 inch iron main, &c.,	134	78		
269		16	Robert Barrett cleansing south part of Reservoir,	90	00		
273	Oct'r	2	Thomas Bonsall for 101 bushels of lime,	25	25		
			Ann Smith for hauling stone, sand, clay, &c.,	62	60		
			Frederick Graff for sundry small bills paid by him, -	9	69		
277	Novir	1	Wages of workmen, repairing reservoir, fence, &c., Michael Fox for 4500 bricks,	203 24	66 75		
280	Dec'r		Henry Bell for sundry lumber for gates, scaffolds, &c.,	24	72		
282		23	N. & D. Sellers for 41 1/2 feet of brass wire netting,	24	90		
284	,	30	Ariel Cooley for 93 perches of stone,	23	25		
						623	60
			PUMPS.				
275	Oct'r	6	Rush & Muhlenberg on account for building pumps,	3666	67		
			1			3666	67
	,				t		
						149700	75
					F		
-1					-		

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#### No. 1.

## ABSTRACT OF PAYMENTS

#### MADE BY THE

#### WATERING COMMITTEE

From Dec'r 31, 1819, to Dec'r 31, 1820.

	a da oo aa ah oo dh ha h	
	Dolls.	C.
listribution,	6996	66
ngines,	12750	4.5
ncidental Expenses,	1573	11
alaries,	2075	00
am, Locks, &c/,	81081	61
ron Main,	21930	79
ron Pipes,	16940	79
ill Buildings,	2062	07
eservoir,	623	60
umps,	3666	67
	149700	75

No. 2.

#### SUMS PAID INTO THE TREASURY

BY THE SUPERINTENDENT,

From Dec'r 31, 1819, to Dec'r 31, 1820.

1820. July 5 To John Bacon, Treasurer, Dec'r 29 To ditto do.	Dolls. 623 358	90
	982	35

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#### STATEMENT OF PIPE

USED IN THE DISTRIBUTION,

Prom Dec'r 31, 1819, to Dec'r 31, 1820.

	Feet.	Feet.
Por two Fire plugs in the State House yard, Hospital yard, which was paid for,	310 230	
Raspberry alley, from Locust, southward, Eleventh, from Sassafras, northward,	465 262 290	1557
Repairs in streets, and for fire plugs,		2031 3588
logs in the pond, December 31, 1819,	1600 2072	CD over ein eine eine eine mensuchen frischlich eine
Logs laid and used in repairs as above,	<b>3672</b> 3588	
Leaves in the pond, December 31, 1820,	84	

There also have been laid, in High street, east of Centre Square, 860 feet of 6 inch, and in Broad street, 315 feet of 10 and 15 inch Iron Pipes.

#### No. 4.

ESTIMATES FOR THE YEAR 1821.

For working of engines and materials, 2000 cords of wood, cording, hauling, and piling,	3900 11500	00	Dolls.	c.`
Rent of wood wharf,	350	00		
the engines,	250	00	16000	00

574. (1820, page 24.)

	Dolls.	¢.	Dolls.	c.
For 5000 feet of pipe timber, boring, hauling, and laying, at 60 cts.,	3000 800 400 4500 400 2050 150	00 00 00 00 00 00	-11300	00
Sum deficient in the appropriation for Iron Main,	2947	23		
Engines,	268	82	1 man	
Making together,	3216	05		
From this sum is to be taken the sum unex- pended of the appropriation of 22d April 1819, for Iron Pipes,	2239	21	130 141	
Leaving,	976	84		
And there should be added this sum, to make good the contracts for Iron Pipes and branches last year, not yet paid for,	2622	00		
Making together,	3598	84	I	
For 450 pipes of 6 inches, at \$1 40 per foot,	5670	00		
foot,	900 1600	00	T	
pipes on hand, and those contracted for,	2892	00	14660	84
			41960	84

FREDERICK GRAFF,

1 1 81

Superintendent of the Water Works.

575. (1820, page 25.)

No. 5.

STATEMENT

of the

ACCOUNTS OF THE WATER RENTS.

Amount of Water Rents, as delivered to the Collectors, Less 10 per cent., for allowances and commissions, - -

reason or a specific function	Dolls. 22202 2220	C. 00 20
Sector Se	19981	80

No. 6.

RECEIPTS OF RENTS

PAID INTO THE TREASURY.

lst lst	April July	to	30th 30th	March,	234 123	C. 30 34 76 83
				· · · · · · · · · · · · · · · · · · ·	663	23

för son soll ber sån den ster för sin sin son stat sör atta nyr öre dör att mer son son son son

576. (1820, page 26.)

No. 7.

### LIST

of

### DWELLINGS, MANUFACTORIES AND INSTITUTIONS,

Supplied with the Schuylkill Water, to the 31st December, 1820.

	80 60 60 60 60 60 60 60 60 60 60 60 60 60			n and alige star sole and date a period class - star alige star	
		Dolls.	c.	Dolls.	c.
13	Horses,	at 1	00	13	00
45	Houses in courts,	2	00	90	00
6	Ditto, do	2	50		00
298	Baths,	3	00	A	00
16	Houses in courts,	2	00		00
2	Baths in county,	4	50	9	00
3499	Dwellings, schools, &c.,	5		17495	00
2	Ditto, do	6	00	12	00
2	Ditto, do	6	50	13	00
1	Bake house,	. 7	00	6 100 T	00
73	Dwellings in county,	7	50	547	50
11	Hatters, Hydrants in courts,	8	00	88	00
5	Hydrant pumps, Vinegar yard, &c.,	9	00	45	00
63	Inns, stables, banks, taverns, &c., -	10	00	630	00
6	Scap boilers, hatters, &c.,	12	00	- 72	00
10	Dyers and other manufactories,	13	00	130	00
47	Distilleries, soap boilers, and paper				
	hanging manufactories,	15	00	705	00
2	Hydrants in courts,	16	00	32	00
21	Sugar houses, distilleries, &c.,	20	00	420	00
1	Hydrant in Shields's court,	22	00		00
2	Stables,	24	00		00
13	Sugar houses, hatters, inns, &c.,	25	00	the set of the	00
9	Prisons, soap boilers, dyers, &c.,	30	00	270	00
1	Brewery,	34	00		00
6	Tanyards, stables, and morocco factory,	35	00		00
6	Breweries, stables, &c.,	40	00	240	00
5	Hospitals, breweries, &c.,	50	00	250	00
2	Breweries,	59	00		00
1	Brewery,	70	00		00
1	Bath house,	80	00		00
1	Alms house,	100	00	100	00
		1. 1. 1.		500 400 ans and and and	
				1 1 N 1 1 1 1 1	

4170

23016

50

## 577. (1820, page 27.)

Amount of Duplicates of Water Rents, for 1821.

	an ing sana ana ang karapan para tang	Dolls.	c.	Dolls.	c.
North Mulberry Upper Delaware,		1302	50	1.2836	
obber noreare		484 /67 (17 84)		2664	50
South Mulberry Lower Delaware		1574	<b>5</b> 0		
				3022	50
North High street	do.,	2781 1332	00		
		and view and rate size where		4113	00
Middle Chesnut	do.,	<b>1832</b> <b>1356</b>	00		11
		and the second s		3188	00
South Walnut	do.,	<b>193</b> 2 1058	00	an Bir	
				2990	00
Locust Dock	do.,	2277	00		
DUCK				3451	00
Cedar	do.,	1961	00		1.13
New Market	do.,	1626	50	3587	50
	An in the second second from the second			02010	50
In the there is a				23016	20
			1		

Signed, MATTHEW RANDALL,

City Clerk.

#### 578. (1820, page 28.)

#### REPORT.

THE Watering Committee feel great reluctance in coming before Councils, when they ask for additional sums to perfect a system which has already cost so much to the public; but when the public interest requires it, they conceive it their duty to take the responsibility of recommending measures, however costly they may prove in their execution.

It is well known to Councils, that, until a very recent period, all the conduits in the City were of wood; that many of them have already been down longer than it was originally calculated they would last; and that expensive repairs have been made and are constantly making. During the present year alone, the repairs, including the repaying, will amount to upwards of five thousand dollars: and from former experience, the conclusion is obvious, that, during the ensuing winter and spring, the expense will be abundantly increased, as every hour diminishes the strength of the pipes. In High, Mulberry, Chesnut, Walnut, Front, Second, Third, Fourth, and Fifth streets, the wooden pipes have been laid near twenty years: in Spruce, Union, Lombard, and Cedar, eighteen years; and in other streets they were afterwards gradually extended. The original calculation of duration was about fifteen years; when, it was expected, they would require to be replaced by others. This, now, is unfortunately the case; and it has fallen to the present Committee to consider whether these shall be of wood or of iron, and . after some experience, and much acquired information, they have but one opinion, which is, that iron is the only kind to be thought of. "In London", says Mr. Walker, "the use of iron pipes is universal: "whenever the old wooden mains begin to decay, it is thought better "to take them up altogether, and to substitute iron, than to continue "repairing them."

#### 579. (1820, page 29.)

Independent of the expense of repairs, the tearing up of the pavements is unpleasant, and tends to render their passage uncomfortable, and sometimes dangerous.

The expense of iron, compared with wood, is also to be considered as giving great advantage to the former.---An iron pipe, of the usual dimensions of the wooden pipes heretofore in use, will cost about one half more than wood, and probably will last ten times as long.

Wooden pipes, when laid down, are often, on trial, found defective; and in a short time are to be replaced at considerable expense. In the course of the few years which any part of section lasts, probably three fourths are shifted, whilst the iron pipes are not subject to these casualties; because, before they are laid, they are subjected to a proof of their strength, and are composed of materials, not subject, like to wood, to early decay. Since the iron pipes, upon the present plan, have commenced to be laid, no instance of a leak has occurred.

High street, on both sides, Second street, from Mulberry to Spruce street, Third street, from Mulberry to Spruce, Front street, from Mulberry to South, and Mulberry, from Eighth to Front street, require immediate attention; and the cost of the iron pipes for these streets alone, will be about forty-six thousand dollars.

In addition to this, it will be necessary, in perfecting a proper system for iron pipes, to lay some in places where it would not otherwise be immediately necessary to renew the wooden ones, for the purpose of affording a more full and regular supply, particularly to the eastern part of the City, at its north and south extremities.

In examining the means of procuring these pipes, and those

#### 580. (1820, page 30.)

which will be wanted in a succession of years, the Committee have endeavoured to form a plan the least burthensome at the present day, and fixing upon posterity a portion of the cost of an improvement, of which they will also derive the benefit. This, they conceive, should be to raise all the money on loan, from time to time, payable in thirty years from the time it is taken up; that it shall be a five per cent. loan; and that any premiums received should be placed in the Sinking Fund, and a pledge to place also in the sinking fund an annual appropriation of two per cent. of the amount of each loan, out of the water rents, City rental, or by taxes.

The Committee would willingly put the evil day afar off, but it is in vain to shut their eyes to what they must too soon be convinced is false economy, and that an expenditure, in the course of a few years, of one hundred thousand dollars, for iron pipes, will save half a million in repairs, upon the old system; which, being radically wrong, never can be made a good one.

The Committee offer, as part of their report, a draft of the proposed plan of laying the iron pipes, and a letter, with estimates, from the Superintendent of the Water Works. They also offer the draft of an Ordinance on the subject.

By Order of the Watering Committee.

JOSEPH S. LEWIS, Chairman.

November 22, 1821.

Office, Cherry street, November 19,1821.

Joseph S. Lewis, Esq.

Chairman of the Watering Committee.

#### Sir,

In making an estimate for replacing the decayed wooden pipes with iron, it is impossible to select such streets, where the pipes are most decayed, without having some reference to the general plan laid down, as a system to be pursued with iron pipes. If the intermediate streets, which require re-laying, were only done in select parts with iron, there would be much difficulty hereafter, when further sections were to be laid, in joining the pipes, as well as in retaining the proper depths required. In many places, the wooden pipes are not more than eighteen inches under the surface of the streets; the iron pipes require to be laid full four feet: independent of this inconvenience, unless the eight and ten inch mains can be brought on to aid the supply, which is insufficient in the wooden pipes, the effect of an additional supply of water would be lost, as laying detached parts of streets would only be made more durable with iron, but the deficiency of water would still be felt. It is obvious, that a six or eight inch pipe, placed between pipes of smaller dimensions, cannot aid in giving an increased quantity of water. These circumstances have induced me to estimate a greater quantity of ten inch main, in order to surround the parts of the City where the wooden pipes are most decayed, High, Front, and Mulberry streets excepted; after which, the internal spaces may be readily filled up with six inch pipes, which will give an immediate increase of water. In describing an enclosure, with

### 582. (1820, page 32.)

eight and ten inch mains, due reference has been had to curtail the distance as much as possible. I have therefore selected that part of the City where the wooden pipes have been laid since the years 1801, 2, 3, 4, and 5, which are chiefly encompassed from Mulberry to Spruce, and from Fifth to Front streets, including Front, from Mulberry to South street, Mulberry, from Fifth to Eighth, and High, from Centre Square to Front street. Annexed is an estimate for laying sundry streets, with the cost of branches, stop-cocks, fireplugs, materials, and work, included.

#### ESTIMATE.

		Feet.	
High street, from Centre Square to Front stree two ranges of		inch pipes,12,81	2
Mulberry street, from Eighth to Front street,	10	do 3,48	0
Chesnut street, north side, from Fifth to Front street,	10	do 2,02	4
Walnut street, from Dock to Front street,	6	do 70	6
Spruce street, from Fifth to Pront street,	10	do 2,02	4
Fifth street, from Mulberry to Spruce street,	10	do 2,89	7
Fourth street, from Mulberry to Spruce street,	6	do 2,89	7
Third street, from Mulberry to Spruce street,	6	do 2,89	7
Second street, from Mulberry to Spruce street,	6	do 2,89'	7
Front street, from Mulberry to South street,	8	do 4,150	8
For small streets and alleys, three and four inch pipes.		5,000	0

#### 583. (1820, page 33.)

#### RECAPITULATION OF ESTIMATE.

50 per foot, \$33,313 50	\$1 50	inch pipes at	feet of 6	22,209
00 do., 8,316 00	2 00	do.	do. 8	4,158
00 do., 31,275 00	3 00	do.	do. 10	10,425
00 do., 5,000 00	1 00	and 4 inch,	do. 3	5,000
\$77,904 50		lpe.	feet of pi	41,792
00 do., 5,000 00		and 4 inch,	do. 3	5,000

N. B. The squares coloured red, in the plan, show the streets calculated to be laid with iron pipes, and embraced in the estimate.

In order to complete the estimate for iron pipes, not including alleys, from Vine to South, and from Fifth to Front streets, I take the liberty of extending the calculations accordingly. The streets coloured black will show the additional quantity of pipes required for that purpose.

Feet.

Fifth street, from Vine to Mulberry, and			T. C. C. C.
from Spruce to South, 10 inch pipes,	-		2,783
Fourth street, ditto, 6 do.			2,783
Third street, ditto, 6 do.	-	-	2,783
Second street, ditto, 6 do.	-	-	2,783
Front street, from Vine to Mulberry, 8 do.	-	-	1,467
Vine street, from Fifth to Front, 10 do.			2,024
Sassafras street, from Fifth to Front, - 6 do.			2,024
Pine street, from Fifth to Front, 6 do.	-	-	2,024
Lombard street, from Fifth to Front, 6 do.			2,024
South street, from Fifth to Front, 10 do.	-	-	2,024

584. (1820, page 34.)

### RECAPITULÁTION.

 14,421 feet of 6 inch pipes at \$1 50 per foot, ---\$21,631 50

 1,467 do.
 8 do.
 2 00 do. -- 2,934 00

 6,831 do.
 10 do.
 3 00 do. -- 20,493 00

 22,719 feet of pipes.
 445,058 50

#### With great respect,

The second

Your humble servant,

FREDERICK GRAFF.

585. (1820, page 35.)

JAN. 17, 1822

AN ORDINANCE empowering the Mayor to raise Money to be applied to laying down Iron Pipes of Conduit through the Streets of the City, in lieu of the Wooden Pipes now in use, and for other purposes.

1 WHEREAS the wooden pipes of conduit have, from age and other 2 causes, become very defective, whereby a great waste of water 3 takes place, and much injury, by leaks, is done to the property of the inhabitants, and who are also deprived of the use of the 4 5 water whilst the pipes are repairing; and whereas it will conduce to the best interest of the City, to replace the wooden 6 pipes, from time to time, with iron pipes, and to discontinue, 7 in future, the laying down of wooden pipes, altogether. There-8 9 fore,

SECTION 1. Be it ordained and enacted by the citizens of 1 Philadelphia in Select and Common Councils assembled, That the 2 Mayor of the City be, and he is hereby authorized to borrow, 3 upon the credit of the Corporation, and at an interest not ex-4 ceeding five per centum, any sums not exceeding twenty-five 5 thousand dollars in any one year, nor in the whole one hundred 6 and twenty-five thousand dollars, to be applied to the purchase 7 and laying down iron pipes of conduit through the streets of the 8 9 City, and that the water rents, and the income of the corporate estates, (not already appropriated,) shall be, and the same 10

#### 586. (1820, page 36.)

11 hereby are pledged, for the payment of the interest, and the 12 repayment of the principal, of all moneys which may be borrowed 13 by virtue of this Ordinance.

1 SECTION 2. And be it further ordained and effacted by the 2 <u>authority aforesaid</u>, That the moneys to be raised by virtue 3 of this Ordinance, shall be borrowed at such times, and in 4 such sums as may be fixed on by the Watering Committee, and 5 shall be placed in the Treasury, subject to the drafts of the 6 Mayor, upon certificates granted by the Chairman of the said 7 Committee, in the usual manner.

SECTION 3. And be it further ordained and enacted by the 1 authority aforesaid, That for each sum borrowed by virtue of 2 this Ordinance, it shall be the duty of the Mayor to issue a 3 4 certificate or certificates, to the lenders of the amount borrowed, in sums of one hundred dollars each, and that the inter-5 est on the same shall be payable half yearly, on the first day 6 of January and first day of July, which certificates shall be 7 transferable in the same manner as the certificates of the fund-8 ed debt of the City, provided that no certificate shall issue 9 for any sum containing a fraction of one hundred dollars. 10

SECTION 4. And be it further ordained and enacted by the
 authority aforesaid, That the moneys which may be borrowed by
 virtue of this Ordinance, shall not be repaid, without the con sent of the persons holding the evidence thereof, in less than
 thirty years from the date on which the loans shall be made.

n.de

587. (1820, page 37.)

1 SECTION 5. And be it further ordained and enacted by the authority aforesaid, That, for the purpose of redeeming the 2 3 debt to be created by virtue of this Ordinance, any premiums received ont the loans shall be placed in the sinking fund, and 4 \$ a sum equal to two per cent. of each loan shall also be added 6 to the sinking fund, within two years from the dates of the loans respectively, and the same sum annually thereafter, out 7 of the water rents of the City, until the said debt be extin-8 guished. 9

Sortions in [] brackets were not included in and approved Jan. 17, 1822. L.J.d.