

# ANNUAL REPORT

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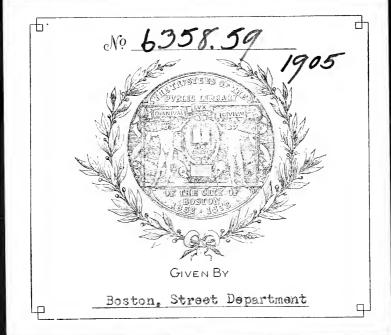
# STREET DEPARTMENT



CITY OF BOSTON

OF THE

1905



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COMPLIMENTS OF . . .

# CHARLES LOGUE,

Acting Superintendent of Streets.

PLEASE EXCHANGE.

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# ANNUAL REPORT

849

OF THE

# STREET DEPARTMENT

FOR THE

# YEAR 1905



BOSTON MUNICIPAL PRINTING OFFICE 1906

6358.59 and. Boston Jucy 17, 1907 1900

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## HON. JOHN F. FITZGERALD, Mayor of the City of Boston:

SIR, — In compliance with the Revised Ordinances, the annual report of the operation and expenses of the Street Department for the year 1905 is herewith respectfully submitted.

#### ORGANIZATION.

The work of the department during the past year has been carried on under the same organization that was effected when the consolidated department was created in 1891, and as amended in 1895, the several divisions of the department being as follows:

Paving Division,
Sanitary Division,
Sewer Division,
Street-Cleaning Division,
Street-Watering Division.

Each of the above divisions, with the exception of the Central Office and the Boston and Cambridge Bridges, is in charge of a Deputy Superintendent.

The Boston and Cambridge bridges are managed by two commissioners. The Superintendent of Streets was the commissioner for the City of Boston until October 28, 1904, when the Deputy Superintendent of the Bridge Division was appointed as commissioner, the other commissioner being appointed by the Mayor of the City of Cambridge.

#### APPROPRIATIONS.

The money assigned for Street Department work for the past year was made available under the following appropriations:

*First.* — Maintenance: From income of the city raised by taxes. Previous to the commencement of the financial year, February 1, the department estimates of the amounts necessary for the proper maintenance of the various divisions are submitted to His Honor the Mayor, who makes such recommendation as he may deem proper to the City Council. The maintenance appropriations, as passed by the City Council, were as follows:

Central Office .	•		•				\$21,000	00
Bridge Division	•		•			•	185,000	00
Cambridge and Bost	on Br	ridges					22,000	00
Ferry Division		•		•			243,000	00
Paving Division					•		900,000	00
Sanitary Division					•		670,000	00
Sewer Division	•	•	•		•		350,000	00
Street-Cleaning Divi	sion	•			•		430,000	00
Street-Watering Divi	ision			•	•	•	165,000	00
Total .	•	•	•			. \$2	,986,000	00

Second. — Work done under appropriations for permanent improvements: There was made available by the City Council, from income of the city raised by taxes, for general new or reconstruction work, as follows:

Street Improvements . . . . . \$500,000 00

Third. — Work done under appropriations for permanent improvements: There was made available by the City Council, from loans within the debt limit, for new work as follows:

Paving Division

\$220,000 00

Fourth. — In 1891 an Act was passed by the Legislature entitled "An Act Relating to the Location, Laying-out and Construction of Highways in the City of Boston." (Chapter 323, Acts of 1891, and amendments, Highways, Making of.) Loans under this Act previous to 1901 were outside the debt limit, but by chapter 199 of the Acts of 1901 the city was empowered to borrow the money inside the debt limit. From this fund new streets, assessable on the abutting property, are built. The amount expended the past year was:

Streets . . . . . . . . . \$10,604 01

Fifth. — In 1897 an Act was passed by the Legislature entitled "An Act Relative to the Sewerage Works of the City of Boston." (Chapter 426.) Under this Act the loan is outside the debt limit. From this fund "Sewerage Works" are built.

The amount expended the past year was . . \$751,179 93

Sixth. — In 1903 an Act was passed by the Legislature entitled "An Act Relative to Separate Systems of Drainage." (Chapter 383.) Loans under this Act are outside the debt limit.

The amount expended last year was .

The expenditures under the several appropriations for the year 1905 were as follows:

Maintenance				. \$3,236,3	50 11
Sewerage Works				. 751,1	79 93
Street Improvements .	•			. 767,7	07 46
Highways, Making of				. 10,6	04 01
Separate Systems of Drainage .				. 784,0	93 91
Bridge, Specials				. 6,8	$16 \ 25$
Hyde Park avenue		•		. 58,9	73 65
Brandon street and Belgrade av	enue			. 39,3	74 40
Paving, Specials				. 39,3	74 39
Abolishment of Grade Crossings	1	•		. 16,1	84 24
Atlantic-avenue Extension .		•	•		04 16
Total		•	•	. \$5,712,2	$62 \ 51$

\$784,093 91

#### BRIDGE DIVISION.

#### Expenditures.

Maintenance. \$184,564.54. Specials. \$6,816.25.

Attention is again called to the badly corroded condition of the Huntington avenue bridge over the Boston & Albany railroad. From an inspection made by the City Engineer when this bridge was last repaired it was found to be in a very bad condition, so that extensive repairs were necessary to make it safe for travel, and an appropriation should be made for the construction of a new bridge as a matter of public safety.

#### FERRY DIVISION.

#### Expenditures.

Maintenance. \$273,995.90.

A contract has been entered into for building a new coalpocket at the East Boston side of the North Ferry. Work on this new pocket would have been commenced at once but for the danger of a possible strike and consequent shortage of coal, which caused it to be deferred until later in order to enable this division to store coal in sufficient quantities to carry it through. The construction of the pocket will probably be begun by May 1, 1906.

During the past year the United States Government issued an order that all boats carrying passengers must be provided with life-boats and life-rafts, life preservers, fire extinguishers and fire pumps, in order to insure the safety of the passengers. Accordingly the City Council voted a special appropriation to meet these demands, and now all our boats are in first-class condition in this respect.

The old piers on the Boston side of both Ferries should be replaced by new ones. These old piers require constant repairs and in the interest of economy should be entirely rebuilt.

#### PAVING DIVISION.

#### Expenditures.

Maintenance. \$1,011,752.77. Specials. \$39,374.39.

Work has been finished on Columbia road from the bridge over Old Colony avenue to Covington street, thus completing the Boulevard from Franklin Park to Marine Park, a distance of nearly four (4) miles. The West Roxbury highways, Belgrade avenue and Hyde Park avenue, were also completed.

Geneva avenue from Westwood street across Vaughan avenue was widened and rough graded to meet the conditions caused by the construction of the new bridge of the New England Division of the New York, New Haven & Hartford Railroad.

Granite block paving with pitch joints on a concrete base has been laid to the extent of about 31,000 square yards in the business section of the city.

Bitulithic pavement has been laid in the residential districts to the extent of about 33,000 square yards and is proving very satisfactory. This pavement is laid with a tenyear maintenance guarantee.

During the year the department force has been employed in repairing and resurfacing streets. About 38 miles of streets have been resurfaced, but a vast amount of work remains to be done not only on macadam streets, but also upon paved streets, in order that they may be put in proper condition.

#### SANITARY DIVISION.

#### Expenditures.

Maintenance. \$703,382.08.

The cost of the collection of material is much increased by the fact that the dumping places are so remote from the place of collection, and the purchase of carts having twice the capacity of those in use at the present time is respectfully urged, as this would make the unavoidably long hauls less frequent. There should be a dumping station at the South End and one somewhere in the vicinity of the Charlestown bridge as was recommended in the report of last year.

The expense of repairing one of the dumping boats is very large. This boat has been in service over twenty years and ought to be replaced by a new one.

The stables at Albany street and North Grove street should be thoroughly overhauled and enlarged in order to accommodate the horses, as many of them are now kept in sheds.

#### SEWER DIVISION.

#### Expenditures.

Maintenance. \$381,687.78. Specials. \$1,861,706.09.

Stony Brook conduit and the West Roxbury low level sewer should be extended southward from Jamaica Plain.

The work of separating the systems of the low-level district is now necessitated by the building of the Charles River basin.

The brook and its principal tributaries must be improved to the Hyde Park line in order to fit them to receive the surface water drains which must be built in each street in the valley.

The completion of the conversion of the combined to the separate system of sewers in the high level or South Metropolitan district and in so much of the low level or main drainage territory as is tributary to the Charles River basin is urged.

The old channel of Stony Brook should be rebuilt, also the Dorchester Brook and Maywood's Brook sewer systems, the auxiliary east side intercepting sewer built and the East Boston intercepting system completed.

The construction work in the Back Bay Fens has been completed.

#### STREET CLEANING DIVISION.

#### Expenditures. Maintenance. \$148,837.79.

The work of this division for the past year has been of the ordinary, almost routine, character. During July and August an attempt was made to flush some of the down-town streets, with two flushing carts, loaned by a concern in a neighboring city, but the experiment proved costly, besides wearing in some places on the joints of the block pavement, and was consequently abandoned.

In our last report some very important recommendations were submitted, but were not acted upon. Again recognizing their importance, I would ask that money be made available for them as speedily as the financial condition of the city warrants it.

#### STREET WATERING DIVISION.

Expenditures.

Maintenance. \$189,347.50.

During the past year four hundred and sixty-five (465) miles of streets were regularly watered, and five hundred and one million one hundred and three thousand two hundred (501,103,200) gallons of water were used in the work.

Recapitulation of	Expenditures	for the	Twelve	Months	ending
	January	31, 190	6.		

OBJECT OF APPROPRIATION.	Current Expenses.	Special Appropria- tions.	Totals.	
Street Department: Central Office Boston and Cambridge Bridges Bridge Division Ferry Division Sanitary Division Sewer Division Street Cleaning Division Street Unprovements Highways, Making of Hyde Park avenue Brandon street and Belgrade avenue Totals		\$6,816 25 30,374 39 1,553,062 24 767,707 46 10,604 01 58,973 65 30,374 40 \$2,475,012 40	\$21,902 93 20,878 8 191,880 7 273,995 00 1,051,127 10 703,822 00 1,934,750 0 448,837 7 189,847 5 767,707 44 10,664 00 58,973 6 33,374 44 \$5,712,202 50	

#### Financial Statement of the Street Department Appropriation.

February 1, 1905, to January 31, 1906.

Maintenance.

			1		1		1
APPROPRIATION.	Appro tions Tran during	and	Re	zenue.		'otal edițs.	Expendi- tures for the twelve months ending Jan. 31, 1906.
Street Department :							
Central Office	<sup>1</sup> \$21,	902 91			\$2	1,902 91	\$21,902 91
Bridge Division	² 184,	564 54			. 18	4,564 54	184,564 54
Boston and Cambridge Bridges,	<sup>s</sup> 19,	420 87	\$1	457 97	2	0,878 84	20,878 84
Ferry Division	<sup>4</sup> 273,	995 90			27	3,995 90	273,995 90
Paving Division	<sup>5</sup> 1,009,	915 18	1	837 59	1,01	1,752 77	1,011,752 77
Sanitary Division	<sup>6</sup> 703,	382 08			70	3,382 08	703,382 08
Sewer Division	7 380,	778 54		909 24	38	1,687 78	381,687 78
Street Cleaning Division	<sup>8</sup> 448,	837 79			44	8,837 79	448,837 79
Street Watering Division		347 50		• • • • • • •	18	9,347 50	189,347 50
Totals	\$3,232,	,145 31	\$4	204 80	\$3,25	86,350 11	\$3,236,350 11
<sup>1</sup> Appropriation Transferred from City Treasur Transferred to Street Watering	ry g Divis	ion .	:	: :	. *	21,000 00 1,000 00 97 09	) · (
<sup>2</sup> Appropriation Transferred to Street Waterin	g Divis	ion	:	:	. \$1	35,^00 00 435 40	)
<sup>3</sup> Appropriation Transferred to Street Watering	g Divis	ion .		:	· *	22,000 00 2,579 13	
<sup>4</sup> Appropriation . Transferred from City Treasu	ry .	: :	:	:		43,000 00 30,995 90	
<sup>5</sup> Appropriation Transferred from City Treasur	ry .	· ·	•	:		00,000 00 09,915 18	
<sup>6</sup> Appropriation					. \$6	70,000 00	)
Transferred from City Treasu Transferred from Surplus Rev		: :	:	:	: _	7,000 00 26,382 08	) 3 - \$703,382 08
<sup>7</sup> Appropriation Transferred from City Treasu	ry .	: :	:	:		50,000 00 30,778 54	
<sup>8</sup> Appropriation Transferred from Surplus Rev Transferred from City Treasu	enue ry		•	÷	. \$4	30,000 00 13,260 68 5,577 14	5
<sup>9</sup> Appropriation					. \$1	65,000 00	- <u>\$448,837 79</u>
Transferred from City Treasu	ry					24,347 50	

			9							
DIVISION,	1896-1897.	1896-1897. 1897-1898.		1898-1899. 899-1900. 1900-1901. 1901-1902.	1900-1901.	1901-1902.	1902-1903.	1903-1904. 1904-1905.		1905-1906.
Central Office	\$18,781 85	\$17,789 85	\$19,186 24	\$18,799 41	\$19,994 66	\$24,999 83	<b>\$20,386 04</b>	\$21,092 06	\$20,853 21	\$21,90 <b>2</b> 91
Bridge	119,963 55	126,529 32	129,253 03	120,408 72	138,580 56	170,866 18	164,082 13	171,789 52	185,269 84	184,564 54
Boston and Cam- bridge Bridges	13,835 54	14,403 92	13,569 89	15,998 18	17,353 27	18,394 97	16,400 04	16,715 12	16,263 90	20,878 84
Ferry	218,353 10	219,983 24	213,055 79	211,822 87	236,999 91	248,754 06	227,688 29	254,535 23	258,126 20	273,995 90
Paving	559,934 39	573,963 14	553,291 72	705,432 68	753,562 34	837,831 07	780,236 39	785,946 38	808,604 99	874,636 88
Remoral of snow,	68,741 07	116,224 20	172,963 48	154,625 18	29,138 38	93,518 45	121,899 66	114,395 94	264,840 43	137,115 89
Sanitary	477,241 54	492,670 56	508,152 88	567,107 81	609,664 67	623,000 50	675,319 64	654,975 87	706,529 89	703,382 08
Sewer	276,615 25	295,522 25	337,376 27	347,133 64	362,060 24	345,669 05	301,743 69	288,679 26	324,360 72	381,687 78
Street Cleaning	310,266 39	309,993 38	316,052 73	322,951 15	339,747 23	356,445 72	392,802 09	403,626 11	434,172 62	448,837 79
Street Watering	71,211 81	178,736 72	138,728 57	174,625 97	174,742 45	164,259 36	160,147 25	164,104 74	165,071 08	189,347 50
Totals.	\$2,134,944 49	\$2,245,816 68	\$2,401,630 60	\$2,638,905 61	\$2,681,843 71	\$2,883,739 19	\$2,860,705 22	\$2,875,850 23	\$3,184,092 88	\$3,236,350 11
	1	1 Not including water bills of \$76,930.40, not previously paid by Street Watering Division.	water bills c	f \$76,930.40, 1	ot previously	r paid by Str	eet Watering	Division.		

Comparative Table Showing Cost of Maintenance of the Street Department since 1896.

STREET DEPARTMENT.

9

#### List of Contracts from February 1, 1905, to January 31, 1906, made by the Street Department.

Contract.	Awarded to	Dated	Price per M. delivered on Wharves.
Large paving blocks	New England Granite Company	May 2, 1905	\$70 00
Large paving blocks	Rockport Granite Company	May 2, 1905	70 00
Large paving blocks	S. & R. J. Lombard	May 2, 1905	70 00
Large paving blocks	Thomas Lahey	May 2, 1905	70 00
Large paving blocks	William T. Shea	May 2, 1905	70 00
Gutter paving blocks	William T. Shea	May 2, 1905	*

#### Paving Blocks.

\* Streets in Dorchester, \$55; streets in South Boston, Roxbury and Brighton, \$62.

DISTRICT.	Awarded to	Dated		ouble Load bic Feet.
			Gravel.	Sand,
South Boston	Frank J. Hannon	March 21, 1905	\$1 45	<b>\$1 3</b> 8
East Boston	J. P. O'Riorden	March 21, 1905	1 45	1 27
Charlestown	J. P. O'Riorden	March 21, 1905	1 45	1 05
Brighton	J. H. Sullivan	March 21, 1905	1 55	1 15
West Roxbury	Thomas F. Minton	March 21, 1905	1 25	1 25
Dorchester	James McGovern	March 21, 1905	1 50	1 50
Roxbury	William Gilligan	March 21, 1905	1 65	1 40
City Proper: District 8	William Gilligan	March 21, 1905	1 60	1 25
City Proper: District 9	William Gilligan	March 21, 1905	1 60	1 60
City Proper: District 10	J. P. O'Riorden	March 21, 1905	1 60	1 00

#### Bank Gravel and Sand.

NOTE. - Single loads to cost one-half of the foregoing prices.

# STREET DEPARTMENT.

DISTRICT.	Awarded to	Dated	Price per M Feet B. M. Rough.
South Boston	Curtis & Pope Lumber Co	Jan. 31, 1905	\$22 40
East Boston	J. O. Wetherbee Co	Jan. 31, 1905	23 00
Charlestown	J. O. Wetherbee Co	Jan. 31, 1905	22 25
Brighton	G. Fuller & Son	Jan. 31, 1905	$22 \ 00$
West Roxbury	Curtis & Pope Lumber Co	Jan. 31, 1905	23 40
Dorchester	Curtis & Pope Lumber Co	Jan. 31, 1905	22 40
Roxbury	Curtis & Pope Lumber Co	Jan. 31, 1905	22 40
City Proper	Curtis & Pope Lumber Co	Jan. 31, 1905	22 00

#### Spruce Lumber.

#### Beach Gravel.

DISTRICT.	Awarded to	Dated	Price perTon delivered on Wharves.
City wharves	Hugh Farrell	Jan. 31, 1905	\$0 93

#### Iron Castings.

Contract.	<b>A</b> warded to	Dated	Price per 100 Pounds delivered at Yards.
Iron eastings	The Sessions Foundry Co	Jan. 31, 1906	\$1 64

Coal.

CONTRACT.	Awarded to	Dated	Price per Ton (2,240 Pounds).
1,800 tons Cumberland, Pumping Station, Dorchester	W. K. Niver Coal Company	June 10, 1905	\$3 75
10,000 tons Georges Creek, Pumping Station, Dorchester.	W. K. Niver Coal Company	July 5, 1905	3 41
10,000 tons Georges Creek, Ferry Wharves	W. K. Niver Coal Company	July 5, 1905	3 41

CONTRACT.	Lessors.	Dated	Price per Ton for Stone removed.
<sup>1</sup> Lease of ledge on Columbia road, near Brunswick st <sup>2</sup> Lease of ledge on Centre st.,	W.J. Wilcox et als.	March 22 and June 12, 1901	\$0.10
between Allandale and Wal- ter sts	Thomas Minton	May 10, 1902	.18
<sup>2</sup> Lease of ledge on Kenney st., near Day st	James W. Kenney	June 7, 1902	. 17
<sup>2</sup> Lease of ledge on Rosseter st.,	Wm. J. Emerson	July 14, 1902	.18
<sup>2</sup> Lease of ledge on Heath st., near Day st	Frederick Bleiler	June 8, 1903	.18
<sup>3</sup> Lease of ledge on Forest Hills st.*	David W. Creed	Dec. 23, 1905	.18

#### Leasing Ledge Lots.

<sup>1</sup> Expires March 22, 1906.
 <sup>2</sup> Expires February 1, 1906.
 <sup>3</sup> Expires February 1, 1908.
 \* Work under this contract was ordered stopped by the Mayor January 1, 1906.

Terms.	1898, for First 5 years \$10,000 per year. Last 5 years \$11,000 per year. Taxes and water rates and interest at 6 per cent, per annum on all amounts path by the lessor for public assess- ofter March 1808.	\$6,500	3,000	years. years 4,000 per year for 5 years.	901 600 per year for 5 years.	25 per year paid to city for 5	10,000	906	906	.003 180 per year paid to city.		
Dated		July 20, 1899, for ten years	. May 14, 1900	June 20, 1900	February 26, 1	. April 24, 1901	. November 7, 1901	. November 20, 1901	. December 28, 1901	. February 21, 1903	. May 1, 1904	Maveb 15, 1904
Lessors.	J. H. Hecht	J. J. Costello	Blodgett & Whidden	Widow and heirs of Henry C. Snow	Charles T. Gallagher, Trustec February 26, 1901	Charles W. Clapp, Lessee	N. Ward Company	Albert G. and Emma B. Frost, Trustees	M. J. Mahoney $et ux$	J. F. Brennan & Co	George C. Fitzpatrick	M D Coloman & Co Lessoe March 15 100
CONTRACT.	Lease of wharf, 466 to 470 Atlantle avenue	Lease of wharf, etc., Revere street	Lease of a portion of Glendon Wharf and stable on said wharf	Lease of a portion of Packard's Wharf	Lease of land and stable on Columbia road and Old Har- bor street (Sewer Division)	Lease of land at Squantum park	Lease of land, Spectacle Island, for location of Garbage Disposal Plant	Lease of land and stable on West First street (Sanitary Division)	Lease of land and stable on H and East Second streets (Street Cleaning Division)	Lease of wharf, Chelsea street	Lease of land and flats at Jeffries Point, East Boston, for maintaining a public landing	Lease of storehouses under Charlestown bridge

# STREET DEPARTMENT.

Lease of Land.

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Contract.	Awarded to	Dated	Price.
Quarrying stone from ledge on Columbia road, near Brunswick street	H. P. Nawn	May 15, 1902	\$0.80 per ton.
Quarrying stone from ledge on Codman street	Patrick McGovern June 13, 1902	June 13, 1902	.70 per ton.
Quarrying stone from ledge on Kenney st., near Day st Patrick F. Donovan June 13, 1902	Patrick F. Donovan	June 13, 1902	.70 per ton.
Quarrying stone from ledge on Centre st., between Allan- dale and Walter streets	Thomas F. Minton	July 26, 1902	.70 per ton.
Quarrying stone from ledge on Chestuut Hill ave., Brighton, Michael Kiernan August 20, 1902	Michael Kiernan	A ugust 20, 1902	.70 per ton.
Quarrying stone from ledge on Rosseter street, Dorchester. James McGovern August 25, 1902	James McGovern	August 25, 1902	.70 per ton.
Quarrying stone from ledge on Heath street, near Day st Patrick F. Donovan April 7, 1904	Patrick F. Donovan	A pril 7, 1904	.70 per ton.
Quarrying stone from ledge on Dimock street	Mark H. Lynch	A pril 30, 1904	.70 per ton.
Quarrying stone from ledge on Columbia road, near Brunswick street	George J. Regan	April 12, 1905	.70 per ton.
* Quarrying stone from ledge on Rosseter street	John E. Gill December 20, 1905	December 20, 1905	.70 per ton.
* Quarrying stone from ledge on Forest Hills street Patrick F. Donovan December 28, 1905	Patrick F. Donovan	December 28, 1905	.70 per ton.

Quarrying and Cutting Stone, etc.

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CITY DOCUMENT NO. 40.

\$3,700 per year for 2 years. Price. John J. Moore...... April 8, 1905..... Dated Collecting and Removing Ashes. . Awarded to Collecting and removing ashes, etc., in the West Roxbury District..... • CONTRACT. 2

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CONTRACT.	Awarded to	Dated			Price.
Collecting and removing house offal, etc., in the West Roxbury District	ue West John Krug March 31, 1905	March 31, 1905		00 per y	\$1,800 per year for 2 years.
Pavin	Paving and Regulating.				
CONTRACT	A warded to	d to	Dated		Cost of Contract, as per Estimated Quan- tities, not including Materials furnished by the City.
Middlesex street, between Dover and Compton streets	John E. Burns		May 9, 1906		\$725 00
Curve street, between Albany street and Broadway Extension	John E. Burus		May 10, 1906		600 00
Northampton street, between Washington street and Harrison avenue	Thomas McMan		May 15, 1906		1,500 00
Regent street, between Warren and Dale streets	Peter Gilligan		May 15, 1905	-	1,450 00
Dorchester avenue, between Savin Hill avenue and Roach street	John E. Gill		May 15, 1905	:	1,400 00
Chelsea street, between Mt. Vernon and Vine streets	P. Brennan & Co		May 15, 1905		1,600 00
Saratoga street, between Swift and Moore streets	Ward & Conlin		May 16, 1905		1,450 00
West First street, between Dorchester avenue and A street	William Higgins		May 16, 1905		1,850 00
Edgestone and gutters, East Second street, between L and N streets	John T. Shea, jr		May 16, 1905		850 00
Gutter paving, Brown avenue, between Ashland and Poplar streets Johu II. Broderick	Johu H. Broderic	ž	May 17, 1905		675 00
		_		-	

Collecting and Removing House Offal.

STREET DEPARTMENT.

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Continued.
Regulating.—
Paving and

CONTRACT.	Awarded to	Dated	Cost of Contract, as per Bstimated Quan- tities, not including Materials furnished by the City.
Gutter paving, Nonantum street, between Washington street and the Newton line.	Michael J. Coyle	May 17, 1905	\$1,550 00
Gutter paving, East Sixth street, between I and K streets	Dennis S. Ryan	May 19, 1905	775 00
Gutter paving, Mt. Vernon street, between Dorchester avenue and Shore- ham street.	Joseph B. O'Rourke	May 19, 1905	1,050 00
Albany street, between Beach and Kneeland streets	John E. Burns.	May 20, 1905	1,800 00
Causeway street, between Nashua and Lowell streets	D. J. Kiley	May 23, 1905	1,990 00
Columbus avenue, between Roxbury and Cedar streets	James J. Coughlan Const. Co	May 31, 1905	2,900 00
Norfolk avenue, between Magazine and Marshfield streets	Thomas McMan	June 3, 1905	1,550 00
Blackstone street, between Hanover street and Haymarket square	D. J. Kiley	June 5, 1905	2,955 40
Eliot street, between Washington and Tremont streets	Jeremiah J. Sullivan	June 5, 1905	2,216 70
South street, between Essex and Beach streets	Jeremiah J. Sullivan	June 5, 1905	3,325 50
Gutter paving, Beech st., between Anawan ave. and Westbourne st	Thomas J. Shea	June 5, 1905	675 00
Gutter paving, Beech street, between Westbourne and Washington streets,	Thomas J. Shea	June 5, 1905	750 00
Mercer street, between East Eighth street and Columbia road	Dennis S. Ryan	June 9, 1905	550 00
Gutter paving, Topliff st., between Bowdoin ave. and Westville st	William J. Rafferty	June 9, 1905	850 00
Harrison avenue, between Beach and Kneeland streets	John E. Burns	June 12, 1905	1,990 00
Albany street and East Dedham street, at the Siegel building	John E. Burns	June 13, 1905	00 00
Gutter paving, Warren st., between Cambridge st. and Commonwealth ave., Michael J. Coyle June 14, 1905	Michael J. Coyle	June 14, 1905	1,900 00

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CITY DOCUMENT NO. 40.

Preble street, between Dorchester and Old Colony avenues	Joseph B. O'Rourke	June 16, 1905	1,300 00
Gustin street, between West Ninth street and Old Colony avenue	Dennis S. Ryan	June 19, 1905	840 00
Gutter paving, Akron street, between Alpine and Regent streets	Peter Gilligan	June 20, 1905	650 00
Shelby street, between Lexington and Saratoga streets	C. P. Conlin	June 20, 1905	1,825 00
Gutter paving, Brown avenue, between Ridge and Ashland streets	John H. Broderick	June 22, 1905	1,400 00
Chatham street, between Merchants row and Commercial street	D. J. Kiley	June 28, 1905	2,593 44
Essex street, between Chauncey and Lincoln streets	John McCourt	June 29, 1906	4,554 95
West Seventh street, from Dorchester avenue across C street	William Higgins.	July 5, 1905.	1,400 00
Gutter paving, Ashmont street, between Neponset avenue and Adams street,	Timothy F. Bradley	July 6, 1905	1,850 00
Boston street, between Mt. Vernon and Dorset streets	Joseph B. O'Rourke	July 6, 1905.	1,650 00
South Margin and Norman streets	D. J. Kiley.	July 7, 1905	920 00
Village street, between Dover and Castle streets	John E. Burns	July 12, 1905	1,800 00
Silver street, between E and Dorehester streets	Dennis S. Ryan	July 15, 1905	1,900 00
Harrison avenue, between Bedford and Essex streets	William J. Rafferty	July 21, 1905	2,674 60
Dorchester avenue, between Hancock and Leedsville streets	John E. Gill.	July 22, 1905	1,700 00
Northampton street, between Washington street and Shawmut avenue	Thomas McMan	August 4, 1905	1,875 00
Harrison avenue, between Decatur street and Gloucester place	John E. Burns	August 19, 1905	680 00
West Sixth street, between C and D streets	William Higgins	August 19, 1905	1,000 00
Gutter paving, Brookline avenue, between Boston & Albany R.R. and Audubon road	John E. Burns.	September 16, 1905	1,500 00
Gutter paving, Fellows street, between Northampton and East Lenox sts.	Thomas McMan	September 19, 1905	475 00
Atlantic avenue (westerly side), between Broad and Commercial streets	Robert Eagar	September 26, 1905	5,848 00
Washington street, between Williams and Warren streets	Jeremiah Bradley	October 14, 1905	1,200 00

# STREET DEPARTMENT.

Concluded.
Regulating
Paving and

Contract.	Awarded to	Dated	Cost of Contract, as per Batimated Quan- tities, not including Materials furnlahed by the City.
Shawmut avenue, between West Springfield street and Massachusetts av. John E. Burns	John E. Burns.	October 26, 1905	\$500 00
Gutter paving, Fuller street, between Dorchester avenue and Washington street	Timothy F. Bradley	November 3, 1905	1,750 00
Beacon street, between Dartmouth and Exeter streets Peter Gilligan November 6, 1905	Peter Gilligan	November 6, 1905	700 00
Washington street, between Townsend and Morton streets Philip Doherty November 13, 1905	Philip Doherty	November 13, 1905	2,350 00
Gutter pavlng, Talbot avenue, between Washington street and Dorchester avenue	John E. Gill	November 15, 1905	1,050 00
South Market street, between Commercial street and Atlantic avenue D. J. Kiley November 18, 1905	D. J. Kiley	November 18, 1905	1,800 00
Wyoming street, between Warren and Wabeno streets Robert Eagar Robert Eagar November 28, 1905	Robert Eagar	November 28, 1905	00 006
* Haverhill street, between Washington and Causeway streets D. J. Kiley December 22, 1905	D. J. Kiley	December 22, 1905	6,000 00
* Work under this contract was ordered stopped by the Mayor, January 1, 1906.	red stopped by the Mayor, Januar	y 1, 1906.	

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CONTRACTOR.	Dated	Price per Square Foot.	CONTRACTOR.	Dated	Price per Square Foot.
Simpson Bros. Corporation	March 28, 1905	\$9.06	Warren Bros. Company March 28, 1905	March 28, 1905	\$0.06
Thomas J. Hind March 28, 1905	March 28, 1905	90.	W. A. Murtfeldt Company March 28, 1905	March 28, 1905	90.
Carr & Andrews Corporation March 28, 1905	March 28, 1905	.06			

Artificial Stone Sidewalks.<sup>1</sup>

<sup>1</sup>These walks are guaranteed by a surety company bond for ten (10) years from date of completion, and were laid on various public streets where the contructor had agreements with the abutters.

# Furnishing and Laying Artificial Stone Sidewalks.

Price.	. \$171.00	. 717 00
Dated	May 16, 1905	November 27, 1905
A warded to	Warren Brothers Company May 16, 1905	Simpson Brothers Corporation
CONTRACT.	Tremont street, between W1nter street and Hamilton place	Maverick street, between London and Have streets, and London street Simpson Brothers Corporation November 27, 1905

STREET DEPARTMENT.

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19

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CONTRACT.	A warded to	Dated	Price.
South Margin street, from Staniford across Norman street	The Barber Asphalt Paving Co July 5, 1905	July 5, 1905	(A) \$3.25 per square yard.
Norman street, between Green and South Margin streets	The Barber Asphalt Paving Co July 8, 1905	July 8, 1905	(A) 3.25 per square yard.
Bennet street, between Ash street and Harrison avenue	The Barber Asphalt Paving Co	July 11, 1905	(A) 3.25 per square yard.
Salutation street, between Hanover and Commercial streets	The Barber Asphalt Paving Co	July 27, 1905	<ul> <li>(A) 3.25 per square yard.</li> <li>(B) 2.50 per square yard.</li> <li>(D) 0.90 per square yard.</li> <li>(E) 0.40 per square yard.</li> <li>(F) 0.25 per square yard.</li> <li>(G) 0.18 per lineal foot.</li> <li>(H) 0.25 per square yard.</li> <li>(I) 0.30 per square yard.</li> </ul>
Hayward place, from Harrison avenue about 192 feet westerly	The Barber Asphalt Paving Co August 7, 1905	August 7, 1905	<ul> <li>(A) 3.25 per square yard.</li> <li>(B) 2.50 per square yard.</li> <li>(F) 0.50 per square yard.</li> </ul>
Northampton street, between Washington street and Shawmut avenue, The Barber Asphalt Paving Co August 17, 1905	The Barber Asphalt Paving Co	August 17, 1905	<ul><li>(A) 3.25 per square yard.</li><li>(B) 2.50 per square yard.</li></ul>
Wiggin street, between Tileston and North Bennet streets	The Barber Asphalt Paving Co August 19, 1905	August 19, 1905	<ul> <li>(A) 3.25 per square yard.</li> <li>(B) 2.50 per square yard.</li> <li>(F) 0.25 per square yard.</li> <li>(G) 0.18 per lineal foot.</li> <li>(H) 0.25 per square yard.</li> </ul>
Harrison avenue, from north side of Decatur street to south side of Gioucester place	The Barber Asphalt Paving Co August 19, 1905	August 19, 1905	<ul><li>(A) 3.25 per square yard.</li><li>(B) 2.50 per square yard.</li></ul>
West Sixth street, between C and D streets	The Barber Asphalt Paving Co August 31, 1905	August 31, 1905	<ul><li>(A) 3.25 per square yard.</li><li>(B) 2.50 per square yard.</li></ul>
Bolton street, between C and D streets August 31, 1905	The Barber Asphalt Paving Co	August 31, 1905	<ul><li>(A) 3.25 per square yard.</li><li>(B) 2.50 per square yard.</li></ul>

Paving with Trinidad Asphalt.

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Ash street, between Bennet and Nassau streets The Barber Asphalt Paving Co   Sept. 15, 1905   (A)	The Barber Asphalt Paving Co	Sept. 15, 1905	<ul><li>(A) 3.25 per square yard.</li><li>(B) 2.50 per square yard.</li></ul>
Devonshire street, between Milk and Franklin streets	The Barber Asphalt Paving Co Sept. 22, 1905	Sept. 22, 1905	<ul><li>(B) 2.50 per square yard.</li><li>(C) 4.50 per cubic yard.</li></ul>
Tileston street, from Ilanover across Unity street	The Barber Asphalt Paving Co October 6, 1905	October 6, 1905	<ul> <li>(A) \$3.25 per square yard.</li> <li>(B) 2.50 per square yard.</li> <li>(D) 0.90 per square yard.</li> <li>(E) 0.40 per square yard.</li> <li>(F) 0.55 per square yard.</li> <li>(G) 0.13 per fineal foot.</li> <li>(H) 0.25 per square yard.</li> <li>(I) 0.30 per square yard.</li> </ul>
<ul> <li>ExpLANATION OF LETTERS.</li> <li>(A) Furnishing and laying a 6-inch American coment concrete base, a 13-inch wearing surface and a 13-inch binder, and guaranteeing the same for a period of ten (10) years after completion.</li> <li>(B) Autor completion.</li> <li>(C) Purnishing and laying a 6-inch wearing surface and a 13-inch binder, and guaranteeing the same for a period after completion.</li> <li>(C) Purnishing and laying a 6-inch wearing surface and a 13-inch binder, and guaranteeing the same for a period of ten (10) years after completion.</li> <li>(D) Purnishing and laying a 6-inch wearing surface and a 13-inch binder, base and guaranteeing the same for a period of ten (10) years (2) Purnishing and laying and crosswalk lagging gravel joints on a concrete base.</li> <li>(E) Laying gravitie block paving and crosswalk lagging gravel joints on a concrete base.</li> <li>(E) Eaving gravitie block paving and crosswalk lagging gravel joints on gravel base.</li> <li>(G) Eaving rand subjections.</li> <li>(G) Furnishing and setting and crosswalk lagging gravel joints on gravel base.</li> <li>(G) Eaving rand string and crosswalk lagging gravel joints on gravel base.</li> <li>(G) Excavation for sub-graviting and string and crosswalk lagging gravel joints on gravel base.</li> <li>(G) Excavation and string and string and crosswalk lagging gravel points on a concrete base.</li> <li>(I) Furnishing and laying concrete base for granite block paving.</li> </ul>	Explanation of LETTERS. base, a 13-inch wearing surface and a 13-inc ch binder on existing concrete base and gua base. base. joints on a concrete base. joints on gravel base. ind up.	h binder, and guara uranteeing the same	ntecing the same for a period for a period of ten (10) years
<sup>1</sup> Rep	<sup>1</sup> Repairing Asphalt.		
CONTRACT.	Awarded to	Dated	Price.
Repairing asphalt pavement	The Barber Asphalt Paving Co April 1, 1905	April 1, 1905	\$2.50 per square yard. New concrete base, \$0.75 per square yard.

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<sup>1</sup> These repairs are guaranteed for a period of three (3) years after completion.

Amendments.
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pter 426 of the Acts of 1897, and Ame
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Acts
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426
nder Chapter
under
Construction
Sewer Constr

CONTRACT.	A warded to	Dated	Cost of Contracts, as per Estimated Quantities, not including Materials furmished by the City.
Pipe drains in Dorchester st., between Broadway and Eighth st	John T. Shea, jr	May 15, 1905	\$820 75
Pipe drains in Thomas park	John T. Shea, jr	May 15, 1905	602 25
East Boston low level sever, Section 3, in private land (Kueller-st. ex- tension), between Trumbull and Boardman sts	Metropolltan Contracting Co	May 18, 1905	5,384 00
Pipe surface drain in Vancouver st., between Huntington ave. and Ward st.	Peter W. Hill	May 19, 1905	610 20
Pipe surface drain in St. Alphonsus st., between Smith and Tremont st., Charles W. Kinney	Charles W. Kinney	May 19, 1905	585 00
Pipe drains in Charlotte st., between Blue Hill ave. and Bradshaw st	Stephen Shaughnessy	May 19, 1905	868 75
Pipe surface drain in Stockton st., between Washington and Milton ave., Jeremiah Bradley	Jeremiah Bradley	May 19, 1905	1,140 00
Pipe sewer in Cherokee st., from Hillside st. to angle in said street	John A. Costello & Co	May 19, 1905	587 50
Pipe sewer and drains in South Fairview and South sts	William L. Dolan	May 20, 1905	1,216 50
Pipe sewer in Harvard st., from Austin st. 250 feet southerly	George J. Twiss	May 20, 1905	770 00
Pipe surface drain in Adams st., between Butler and Medway sts	John McMorrow.	May 20, 1905	1,800 00
Pipe drains in Stanley st., between Quincy st. and Sunset eircle	Robert Eagar	May 20, 1995	1,068 50
Pipe drains in Gaston st., between Warren and Gannet sts	John Slattery	May 20, 1905	1,394 00
Pipe drains in Quincy st., between Columbia road and Stanley st	Connolly Brothers	May 23, 1905	1,701 00
Pipe sewer in Walk Hill st., between existing sewer and Almont st	F. L. Williams	May 24, 1905	700 00
Sewerage works, Bennington st., and outlet across Chelsea st., Saratoga st., Private land and Bremen st	D. F. O'Connell Co	May 31, 1905	3,555 50
Pipe sewer in Beech Glen st., from Fort ave. 190 feet southerly	George M. Bryne Co	June 8, 1905	1,425 25

1,231 30	550 00	1,922 00	1,237 00	1,070 00	840 00	1,143 25	1,447 75	1,588 00	1,974 00	1,241 00	841 00	970 00	1,800 00	1,630 25	1, 953 00	982 00	1,955 00	
June 8, 1905	J une 9, 1905	July 8, 1905	July 10, 1905	July 11, 1905	July 11, 1905	July 12, I905	July 12, 1905	July 13, 1905	July 14, 1905	July 21, 1905	July 21, 1905	July 24, 1905	July 26, 1905	July 31, 1905	Angust 7, 1905	August 11, 1905	August 16, 1905	
Thomas J, Young Co	James W. O'Brien	Thomas F. Welch'	James W. O'Brieu	Charles W. Kinney	Jeremiah Bradley	Robert Eagar	William J. Barry	C. P. Conlin	, from Stony Brook 180 feet Connolly and Graham	John Slattery	William L. Dolan	John A. Costello & Co	Stephen Shaughnessy	George J. Twiss	Thomas J. Young Co	John T. Shea, jr	John McMorrow	
Pipe drains in Sutherland and Lanark roads, between Commonwealth ave, and Kinrossroad	Pipe surface drain, Fremont street, between Biue Hill ave. and Norfolk st., James W. O'Brien.	Concrete conduit in Centre and Billings sts., from cast side of Centre to George st	Pipe sewers in Church street, between Bowdoin st. and Prescott pl	Pipe sewer in Groveland st., between River and Manchester sts	Pipe sewer in River street, between Idaho and Groveland sts	Pipe sower and drain in Neponset ave., from Hyde Park ave. 550 feet easterly	Pipe sewer in Prescott pl., from Church st. 250 feet northerly	Pipe sewer and drain in Frankfort st., between Neptune ave. and Swift st.	Pipe sever and drain in Mt. Hope st., from Stony Brook 180 fect northwesterly	Pipe sewer and drain in Bellevue st., from old lamp-hole 150 feet south- east of Martin st. to Rohin st	Pipe sewer and drain in Penfield st., between Amherst and Linden sts	Pipe sewer and drain in South st., between Edgemont and Guernsey sts	Pipe sewer and drain in La Grange st., between Landseer and Linnet sts.,	Pipe sewer in Hamilton st., between Coleman and Bowdoin sts	Pipesewer and drain in Kingsley st., between Rena and North Harvard sts. Thomas J. Young Co	Pipe sewer in Q st., between East Second and East Third sts	Pipe sewer in Boutwell st., between Neponset ave. and Train st	

${\bf Amendments.} - Continued.$
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1897,
of
Acts
of the
of
426
Chapter
under
<b>Construction</b>
Sewer

CONTRACT.	Awarded to	Dated	Cost of Contracts, as per Estimated Quantities, not including Materials furnished by the City.
Pipe sewer and drain in Linden st., between Belgrade ave. and Pen- field st.	P. Brennan & Co Å ugust 22, 1905	Angust 22, 1905	\$1,221 00
Pipe sewer and drain in Robin st., between Bellevue and Park sts Peter W. Hill August 24, 1905	Peter W. Hill	A ugust 24, 1905	1,516 00
Pipe sewer in Freeport st., between Dorchester Intercepting sewer and Neponset ave	John Slattery	August 24, 1905	1,200 00
Sewerage works in Curtis st., between Chelsea and Pope sts	Timothy J. O'Connell	September 2, 1905	3,596 75
Pipe sewer in Ashmont st., hetween Elm pl. and Adams st	John McMorrow	September 6, 1905	1,978 00
Pipe sewer and drain in Rowe st., from private way 60 feet northeast of Ashland st. to Allen st	Robert Eagar	September 6, 1905	<b>664</b> 00
Pipe sewer and drain in Allen st., between Rowe st. and Brown ave	William T. Davern September 7, 1905	September 7, 1905	719 00
Pipe sewer in Adams st., from Ashmont st. 200 feet northerly	John E. Burns	September 9, 1905	640 00
Pipe sewer and drain in Larch pl., between Hyde Park ave. and New York, New Haven & Hartford R.R	John E. Burns	September 9, 1905	500 00
Pipe sewers in Parker Hill ave. and Harleston street.	Charles J. Jacobs	September 27, 1905	625 00
Pipe surface drains in Alban st., between Ashmont st. and Welles ave John McMorrow	John McMorrow	October 12, 1905	1,710 00
Fipe drains in Corey rd., from a point 250 feet north of Cummings rd. to private st. 200 feet northerly	Thomas J. Young Co October 13, 1905	October 13, 1905	. 905 00
Pipe surface drains in Ivy st., between St. Mary's and Mountfort sts	Charles W. Kinney	October 13, 1905	1,477 00
Pipe drains in Flora st., between Clement ave. and Kenneth st	Michael J. Collins	October 13, 1905	957 00
Pipe drains in Rexhame st., between Belgrade and Colberg avenues	Thomas J. Shea October 13, 1905	October 13, 1905	937 00

Pipe drains in Houston, Metcalf and Penfield sts., between Roslindale brook and Belgrade ave	William L. Dolan	October 13, 1905	1,443 00
Pipe surface drain In Lawn and Hayden sts	Charles J. Jacobs	October 13, 1905	992 25
Pipe surface drain in Ocean st., between Ashmont st. and Welles ave	Jeremiah Bradley	October 13, 1905	1,655 00
Pipe drains in Wayne st., between Blue Hill ave. and Maple st	Stephen Shaughnessy	October 14, 1905	1,360 95
Pipe sewer and drain in Garden st., from Maple st. 190 feet westerly	Thomas F. Welch	October 14, 1905	00 206
Pipe drains in Kingsdale st., from Bernard st. to end of street	Thomas J. Flaneran	October 14, 1905	1,359 50
Pipe drains in Humboldt ave., between Walnut ave. and Laurel st	William J. Barry	October 14, 1905	1,470 30
Pipe surface drains in Bickerstaff st., between Haviland and Astor sts Peter W. Hill	Peter W. Hill	October 14, 1905	1,657 00
Pipe sewer and drains in Meridian st., between Havre and Paris sts	C. P. Conlin	October 14, 1905	1,052 00
Pipe drains in Clement ave., between Stratford ave. and Flora st	George J. Twiss.	October 14, 1905	579 00
Pipe sewer and drain in Havey st., from Dudley ave. 200 ft. southwesterly, James W. O'Brlen		October 14, 1905	645 00
Pipe drains in Schuyler st., between Maple st. and Elm Hill ave	Peter Gilligan	October 14, 1905	1,366 00
Pipe drains In Galena st., between Elmore and Kingsbury sts	John T. Shea, jr.	October 16, 1905	1,303 70
Pipe drains in Sunderland st., between Blue Hill ave. and Warren st	Dennis S. Ryan	October 16, 1905	609 70
Pipe sewers and drains in Howland st., between Warren st. and Elm IIII ave	Р. Вгеллап & Со	October 16, 1905	1,991 55
Pipe drains in Waumbeck st., between Wenonah and Warren sts	John A. Rooney	October 16, 1905	1,361 50
Pipe drains in Elmore st., between Washington st. and Walnut ave	John Slattery	October 16, 1905	1,546 50
Pripe sewer and dratu in Cheshire st., from existing sewer to end of street 210 feet northeasterly	Francis O'Nell October 16, 1905	October 16, 1905	921 06
Pipe surface drain in EllIngwood st., from Estey st. 540 ft. northwesterly. John A. Costello & Co October 16, 1905	John A. Costello & Co	October 16, 1905	1,194 30
Talbot ave. high level sewer, Section 1, in Ashland st., and private hand between Metropolitan bigh level sewer and northeasterly side of Ashland st October 16, 1905	George M. Bryne Co	October 16, 1905	$1,880 \ 00$

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Contract.	Awarded to	Dated	Cost of Contracts, as per Estimated Quantities, not including Materials furnished by the City.
Pipe sewers and drains in Munroe st., from Walnut ave. 620 feet easterly, James J. Coughlan Const. Co October 16, 1906	James J. Coughlan Const. Co	October 16, 1906	<b>\$1</b> ,801 50
Pipe sever in Elm Hill ave., from existing sewer, near Wenonah st. to a point 100 feet northeast	John E. Gill	October 17, 1905	580 00
Pipe surface drain in Mora st., between Washington st. and Milton ave., Connolly & Graham	Connolly & Graham	October 18, 1905	1,604 00
Pipe surface drain in Evelyn st., between Norfolk st. and Blue Hill ave., George J. Regan	George J. Regan	October 21, 1905	1,512 00
Pipe drains in Rockland st., between Rockland ave. and Warren st	John E. Burns	October 23, 1905	1,928 00
Pipe surface drain in Centre st., between Washington and Scaborn sts	John E. Burns	October 23, 1905	1,100 00
Pipe sewer in Hollingsworth st., from Oakland st. 560 feet southerly	F. L. Williams	October 24, 1905	1,479 00
Pipe surface drains in Mountfort st., between Beacon st. and Audubon road	Charles J. Jacobs	October 24, 1905	1,535 00
Plpe drains in Mt. Everett st., from Quincy st. 480 feet southerly	John E. Gill.	October 24, 1905	1,937 75
Pipe surface drains in Middleton st., between Wildwood and Norfolk sts., Dennis S. Ryan	Dennis S. Ryan	October 24, 1905	952 00
Pipe drains in Tileston ave., from Blue Hill ave. 530 fect westerly	F. A. Bianco & Sons	October 24, 1905	750 00
Concrete conduit in Warren st., between Allston st. and Woodstock ave.,	D. E. Coleman Co	October 24, 1905	1,992 00
Pipe drains in Cheney st., between Blue Hill ave. and Hartwell sts	William J. Barry	October 25, 1905	1,235 25
Pipe sewers and drains in Hartwell st., between Georgia and Cheney sts., Peter Gilligan	Peter Gilligan	October 26, 1905	01 186
Pipe surface drain in Welles ave., between Wainwright and Washing- ton sts	John McMorrow October 26, 1905	October 26, 1905	1,773 00
Pipe sewers and drains in Harvard st., between Washington and Cham- berlain sts	Francis J. O'Neil	October 26, 1905	1,320 40

1,075 05	1,065 00	1,668 55	1,101 25	880 00	1,608 70	1,294 00	1,534 00	1,531 60	1,832 00	866 80	1,192 50	823 45	551 80	1,325 00	516 00	1,026 00	1,994 48	1,956 00	1,269 00	826 00
October 27, 1905	October 27, 1905	October 27, 1905	October 30, 1905	October 30, 1905	October 30, 1905	October 30, 1905	October 30, 1905	October 31, 1905	October 31, 1905	October 31, 1905	October 31, 1905	October 31, 1905	November 1, 1905	November 1, 1905	November 1, 1905	November 1, 1905	November 2, 1905	November 2, 1905	November 2, 1905	November 2, 1905
Charles W. Kinney	Timothy F. Bradley	George J. Twiss	Thomas J. Finneran	James W. O'Brien	Michael J. Collins	Thomas J. Shea	William L. Dolan	William J. Barry	John E. Burns	Stephen Shanghnessy	Timothy J. O'Connell	John A. Costello & Co	William J. Rafferty	John T. Shea, jr	Herr & Raftus	Charles J. Jacobs	D. E. Coleman Co	C. P. Conlin	George II. Noone	Peter Gilligan
Pipe surface drain in Darling st., between Calumet and Hillside sts   Charles W. Kinney   October 27, 1905	Phpe surface drain in Brent st., between Wainwright and Washington sts.,	Pipe drains in Alaska st., between Blue Hill ave. and Perrin st	Pipe drains in Devon st., between Blue Hill ave. and Warren st	Pipe surface drain in Harley st., between Welles ave. and Roslin st	Pipe drains in Magnolia st., between Quincy st. and Lawrence ave	Pipe drains in Malcolm st., between Belgrade and Colberg aves	Pipe drains in Belgrade ave., between Malcolm and Beech sts	Pipe dralus in Southwood st., between Blue Hill ave. and Edgewood st	Pipe drains in Georgia st., between Blue Hill ave. and Maple st	Pipe drains in Aspen st., between Copeland and Montrose sts	Pipe sewer in private land, between Rosewood and Hollingsworth sts	Pipe surface drains in Lawn and Estey sts., between Heath st. and Fisher ave	Pipe surface drain in Birch st., between Callender st. and Lauriat ave	Pipe surface drain in Ashmont st., between Waldorf and Alban sts	Pipe drain in Binney st., between Longwood ave. and Smyrna st	Pipe surface drains in Wheatland ave, between Washington and Whit- field sts	Concrete conduit in Commonwealth ave. and Allston st., from north side of Commonwealth ave. to Warren st	Pipe drains in Wordsworth st., between Saratoga and Pope sts	Pipe drains in Lorraine st., between Belgrade and Colberg aves	Pipe surface drains in Darling st., between Southern ave. and Norfolk st. Peter Gilligan

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Contract.	A warded to	Dated	Cost of Contracts, as per Estimated Quantities, not including Materials furnished by the City.
Pipe surface drain in Sturbridge st., between Monson and Sanford sts	Jeremlah Bradley	November 3, 1905	\$1,084 00
Pipe drains in Lawrence ave., between Lawrence park and Magnolla st.,	George J. Regan	November 3, 1905	1,844 25
Pipe sewer in Fulton st., between Cross and Ferry sts	James J. Coughlan Const. Co	November 6, 1905	1,221 25
Pipe surface drains in Jones ave., between Ballou ave. and Mascot st	Dennis S. Ryan	November 6, 1905	00 686
Pipe drains in Hemenway st., between Bryant st. and Westland ave	Robert Eagar	November 6, 1905	1,574 45
Pipe sewer and drains in Decatur st., between Vine and Bainbridge sts.,	P. Brennan & Co	November 6, 1905	1,207 00
Pipe surface drains in Norfolk st., between Morton and Mascot sts	Connolly & Graham	November 7, 1905	1,210 00
Pipe drains in Harold st., between Munroe and Townsend sts	John Slattery	November 7, 1905	1,527 50
Pipe surface drain in Rockwell st., between Washington and Milton ave.,	James McGovern.	November 7, 1905	1,538 00
Pipe drains in Greenheys st., between Magnolla and Mascoma sts	William J. Barry	November 7, 1905	1,986 90
Pipe sewer and surface drains in Roslin st., between WashIngton and Ocean sts	John McMorrow	November 7, 1905	1,731 40
Pipe drains in Amherst st., between Roslindale brook and Dudley ave.	Thomas F. Welch	November 7, 1905	1,397 00
Pipe surface drains in passageway north of Ivy st., between St. Mary's and Mountfort sts	Charles J. Jacobs November 8, 1405	November 8, 1905	942 00
Pipe surface drains in passageway between Beacon and Ivy sts., from St. Mary's to Mountfort sts	Charles W. Kenney	November 8, 1905	. 1,969 80
Pipe surface drains in passageway between Mountfort st. and Boston & Albany R.R., from St. Mary's st. 1,400 feet easterly	Michael Leonard	November 8, 1905	1,741 90
Pipe drains in Norton street, from Board of Survey street No. 1831 to a point 200 feet east to the angle	William T. Davern November 8, 1905	November 8, 1905	1,290 10

1,057 50	1,022 90	600 00	1,998 20	1,421 15	528 00	1,447 25	1,898 00	1,251 00	1,997 50	1,313 90	808 00	565 00	912 00	1,920 00	1 179 00	1,513 35	1,890 00
November 8, 1905	November 8, 1905	November 9, 1905	November 9, 1905	November 9, 1905	November 9, 1905	November 10, 1905	November 10, 1905	November 10, 1905	November 11, 1905	November 11, 1905	November 11, 1905	November 13, 1905	November 13, 1905	November 13, 1905	Мотельног 13 1005	November 13, 1905	November 14, 1905
F. A. Bianco & Sons	John A. Rooney	Stephen Shaughnessy	John F. Cullen	William Barrett.	÷	Thomas J. Finneran November 10, 1905	John H. Crane	Thomas F. Minton	Peter Gilligan	George J. Regan	James W. O'Brien	McBride & Co	John A. Costello & Co November 13, 1905	William J. Rafferty	William J. Barry	Philip Doherty	D. M. Dwyer & Co
Pipe drains in Bullard street, between Rosseler st. and Bowdoin ave F. A. Bianco & Sons November 8, 1905	Pipe drains in Park View st., between Hutchings and Seaver sts	Pipe surface drain in Walton st., between Washington and Harley sts	Pipe drains in Fayston st., between Blue Hill ave. and Mascoma st	Pipe drains in Blakeville st., from Olney st. 350 feet southerly	Pipe sewer and druin in Brook st., between Orange st. and Bellevue ave., Joseph Todesca	Pipe drains in Board of Survey street No. 1831, between Norton and Olney sts	Pipe sewer and drain in Champney st., between Washington and Strat- ton sts	Pipe drains in Montello st., between Belgrade and Colberg aves	Pipe drains in Waverly st., between Blue Hill ave. and Perrin st Peter Gilligau	Pipe drains in Mascoma st., between Quincy st. and Lawrence ave	Pipe surface drain in Oakwood st., between Norfolk and Torrey sts	Pipe sewer and drain in Corey road from Summit ave. 200 feet south- westerly	Pipe service drain in Galnsborough st., between Hemenway and St. Stephen sts	Pipe sewers and drains in Champney st., between Columbia road and Old Colony avenue	Pipe drains in Nazing st., between Blue Hill ave. and Maple st	Pipe surface drain in Ruggles st., between Parker and Tremont sts., and Vancouver st. between Huntington ave. and Ruggles st	Pipe surface drain in Melville ave., between Waldeck and Washington sts

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CONTRACT.	A warded to	Dated	Cost of Contracts, as per Estimated Quantities, not including Materials furnlahed by the City.
Talbot ave. high level sewer in Morton st. and private land between proposed st. and Harvard st.	Peter W. Hill	November 14, 1905	\$8,161 10
Ptpe surface drains in Beacon st., between St. Mary's and Mountfort sts. Charles J. Jacobs	Charles J. Jacobs	November 14, 1905	1,970 50
Talhot ave. high level sewer, Section 5, in private land from 1,825 feet east of Walk Hill st. to Morton st	William J. Barry	November 14, 1905	13,312 00
Pipe drains in Kineo st., between Mascoma and Magnolia sts	Francis J. O'Neil	November 15, 1905	801 50
Pipe dralns in Washington st., between Kittredge and Albano sts	William L. Dolan	November 15, 1905	1,465 00
Fipe surface drain in Armandine st., from 500 feet west of Washington st. to Milton ave	George J. Regan November 15, 1905	November 15, 1905	1,750 00
Pipe surface drains in Wait st., between Hillside st. and Parker Hill ave. John McCourt	John McCourt	November 15, 1905	617 00
Pipe surface drain in Oakridge st., between Morton and Codman sts	John McMorrow	November 15, 1905	1,230 00
Pipe surface drain in Tremlett st., between Waldeck and Washington sts.	Timothy J. O'Connell	November 15, 1905	1,200 00
Pipe drains in Birch st., between Roslindale brook and Dudley ave Thomas J. Shea	Thomas J. Shea	November 15, 1905	1,986 00
Pipe surface drains in River st., between Mattapan sq. and Hyde Park line.	John E. Burns	November 17, 1905	4,300 00
Pipe surface drain in Moultrie st., between Washington and Allston sts.	John T. Shea, jr	November 18, 1905	1,080 00
Pipe surface drains in Sanford street, from Sturbridge st. 300 ft. easterly Timothy F. Bradley	Timothy F. Bradley	November 18, 1905	920 00
Pipe sewers and drains in Prescott st., between Bremen and Orleans sts., and between Lubec and Cleveland sts	Timothy J. O'Connell November 18, 1905	November 18, 1905	3,142 70
Pipe surface drains in Atlantic-ave. extension, from Kneeland st. 430 feet southerly November 18, 1905	Patrick McGovern	November 18, 1905	1,100 50

Pipe drains in Brookledge street, between Humboldt and Elm Hill aves. Robert Eagar	Robert Eagar	November 20, 1905]	2,716 76
Pipe sewers and drains in Bower st., between Humboldt and Walnut aves. William J. Barry	William J. Barry	November 20, 1905	2,768 00
Pipe sewer and drain in Tufts st., between Bunker Hill and Princeton streets	P. Brennen & Co	November 20, 1905	1,620 00
Pipe drains in Olney st., between Bowdoln st. and Rock terrace	Geo. M. Bryne Co	November 20, 1905	2,997 70
Pipe drains in Hollander st., between Harold and Crawford sts	Herr & Raftus	November 20, 1905	612 50
Pipe drains in Kane st. and outlet in Bellevue st	John E. Gill	November 20, 1905	1,848 50
Pipe drains in Woodeliff st., between Howard and Blue Hill ares William T. Davern	Willlam T. Davern	November 20, 1905	1,655 20
Pipe drain in Willowwood st. and Ballou ave., between Dumas and Norfolk sts	John McMorrow	November 20, 1905	2,576 00
Pipe drains in Savgent st., between Howard ave. and Hartford st	Connolly and Graham	November 20, 1905	3,126 00
Pipe drains in Homestead st., between Humboldt and Elm Hill aves	John Slattery	November 20, 1905	2,907 00
Pipe surface drain in Woolson st., between Blue Hill ave. and Norfolk st George J. Regan	George J. Regan	November 21, 1905	2,700 00
Pipe surface drain in Kenwood st., between Washington and Allston sts.	Jeremlah Bradley.	November 21, 1905	1,585 00
Pipe drains in Richfield st., between Pilgrim pl. and Olney st	John A. Rooney	November 21, 1905	2,564 50
Plpe drains in Hutchings st., between Humboldt and Blue Hill aves	James J. Coughlan Const. Co.	November 22, 1905	3,057 30
Pipe drains in Perrin st., between Alaska and Moreland sta	Charles J. Jacobs	November 23, 1905	1,996 25
Pipe drains in Dove st., between Daeia st. and Blue Hill ave	Thomas Burke	November 24, 1905	730 05
Pipe drains in Allston pl., between Woodstock are., and Corey road D. E. Coleman Co	D. E. Coleman Co	November 25, 1905	687 50
Pipe drains in Woodstock ave., between Warren st. and Allston pl	D. E. Coleman Co November 25, 1905	November 25, 1905	00 269
Pipe sewer and drain in Walker st., from outlet 400 ft. north of Dunbar st. to Weld st.	McBride & Co	November 25, 1905	3,736 45
Pipe sewer and drain in Arthur st., between Dunbar and Weld sts McBride & Co November 25, 1905	McBride & Co	November 25, 1905	I,482 83
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Dorchester high level sever in River st., between Board of Survey street No. 516 and Groveland st., Section 4	W. B. Bryne November 25, 1905	November 25, 1905	\$15,237 64
Pipe drains in Colberg ave., between Belgrade ave. and Lorraine st	Thomas J. Shea	November 27, 1905	1,99950
Pipe drains in Dewey st., from Blue Hill ave. 80 feeteast of Danube st	William J. Rafferty	November 29, 1905	1,314 60
Pipe drains in Albano st., between Washington and Kittredge sts	William L. Dolan November 29, 1905	November 29, 1905	1,202 00
Pipe surface drains in Oak ter. and outlet in Lyons st., between Callender Peter Gilligan	Peter Gilligan	November 29, 1905	1,764 40
Pipe surface drain in Milton ave., between Edson and Fairmount sts James McGovern November 29, 1905	James McGovern	November 29, 1905	1,954 00
Pipe sewer and drains in Jewett st., between Mt. Hope st. and Nepon- Betave	John A. Rooney	December 1, 1905	2,231 00
Pipe drains in Amherst st., between Belgrade ave. and Penfield st Thomas F. Welch December 1, 1905	Thomas F. Welch	December 1, 1905	847 00
Pipe drains in Horace st., between Moore and Byron sts	C. P. Conlin	December 1, 1905	1,102 00
Pipe sewer in Sherman st., between Dale and Rockland sts	William J. Barry	December 1, 1905	1,363 00
Pipe surface drains in Withington st., between Norfolk and Torrey sts John E. Gill December 2, 1905	John E. Gill	December 2, 1905	1,350 00
Pipe surface drain in Fairmount st., between Milton ave. and Nevada st Thomas J. Finneran December 2, 1905	Thomas J. Finneran	December 2, 1905	877 00
Pipe surface drains in Mattapan st., from Blue Hill ave. to Summit, 540 George J. Twiss December 2, 1905	George J. Twiss	December 2, 1905	1,182 00
Pipe sewer in Conley and Norwood sts., between Freeport and Tol. man sts	Peter W. Hill December 2, 1905	December 2, 1905	3,454 90
Pipe sever and drain in private land between Addington road and John A. Rooney	John A. Rooney	December 8, 1905	3,822 10

\*Work nuder these contracts was ordered stopped by the Mayor January I, 1906.

### STREET DEPARTMENT.

Pipe sewers and drains in Cunningham st., between Howard ave. and llartford st	P. Brennan & Co	December 18, 1905	2,589 00
Pipe drains in Hartford st., between Wayland and Chamblet sts	George J. Regan December 18, 1905	December 18, 1905	2,829 50
Dorchester Brook sewer in private land, Rockford st., Brook ave. and Brook-ave. place	D. F. O'Connell Co December 19, 1905	December 19, 1905	31,052 75
* Pipe sewer and drains in private land, between Mt. Hope st. and Nepon- set ave. (outlet for Neponset ave.)	William L, Dolan December 22, 1905	December 22, 1905	2,200 00
* Pipe surface drain in Fessenden st., between Blue Hill ave. and Nor- folk st	John McMorrow	December 22, I905	2,347 00
* Pipe drains in Munroe st., between Warren st., and Humboldt ave	John Slattery	December 22, 1905	2,987 30
* Pipe sowers and drains in Lansing st, between Sherman and War- ren sts	Charles J. Jacobs December 22, 1905	December 22, 1905	I,812 50
* Pipc sever and drain in Walk Hill st., between Talbot ave. high level sever and Paine st	Dennis S. Ryan	December 22, 1905	1,960 00
* Pipe sewer and drain In Avalon road, between Addington road and Weld st	Thomas J. Shea	December 27, 1905	2,495 00
* Pipe sewer and drain in Dudley ave., between South and S. Fairview sts.	Charles W. Kinney	December 27, 1905	795 00
* Pipe severs and drains in Howard ave., between Woodcliff and Sar- gentets	John E. Burns December 27, 1905	December 27, 1905	3,514 70
<ul> <li>Pipe sewer and drain in South Fairview st., from Dudley ave. 450 feet westerly</li> </ul>	Charles W. Kinney December 27, 1905	December 27, 1905	1,111 00
* Pipe sewer and drain in Maple st., between Addington road and Weld st.	Peter Gilligan December 27, 1905	December 27, 1905	3,096 00
* Pipe sewer and drain In Canterbury st., between Ashland st. and Hyde Park are	William L. Dolan	December 27, 1905	2,732 00
* Pipe drains in Devon st., between Blue Hill ave. and Columbia road   Connolly & Graham	Connolly & Graham	December 27, 1905	3,702 50
* Pipe sewer and drain in Chilton road, between Addington road and Weld st	en Addington road and Charles W. Khney December 27, 1905	December 27, 1905	2,078 00

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CONTRACT	Awarded to	Dated	<sup>s</sup> Cost of Contracts, as per Estimated Quantities, not including Materials furnished by the City.
* Pipe drains in Stanwood st., between Blue Hill ave. and Columbia road, Connolly & Graham	Connolly & Graham	December 27, 1905	\$3,550 90
* Pipe drains in Stanley st., between Bellevue and Quincy sts Jeremiah Bradley December 27, 1905	Jeremiah Bradley	December 27, 1905	1,034 80
* Pipe sewers and drains in Chadwick st. and Orchard pk John E. Burns		December 27, 1905	2,851 25
* Pipe surface drain in Rockville st., between Blue Hill ave. and Oakland st	James W. O'Brien	December 27, 1905	1,939 00
* Pipe sewers and drains in Walnut ave., between Crawford and Townsend sts	Robert EagarBocember 27, 1905	December 27, 1905	2,037 15
* Pipe surface drains in Fremont st., between River and Norfolk sts	P. Brennan & Co	December 27, 1905	2,305 50
* Pipe surface drains in Adams st., between Minot and Milton sts James McGovern	James McGovern.	December 27, 1905	2,550 00
* Sewerage works in Holworthy st., between Crawford and Harold sts James J. Coughlan Const. Co December 27, 1905	James J. Coughlan Const. Co	December 27, 1905	4,104 80
* Pipe severs and drains in Julian st., between Blue Hill ave. and Cottage et.	George J. Twiss December 27, 1905	December 27, 1905	1,512 20
* Pipe sever and drain in Folsom st., between Mt. Hope st. and Neponset ave	John T. Shea, jr	December 27, 1905	2,089 00
* Pipe sever and drain in Malcolm st., private land and Central st., between Belgrade ave. and Centre st	D. E. Coleman Co	December 27, 1905	2,167 00
* Pipe surface drain in Wilmington ave., between Milton ave. and Nevada st.	Timothy J. O'Connell December 27, 1905	December 27, 1905	00 911
* Pipe sever and drain in Ashland st., between Canterbury and Sutton sts.	F. A. Bianco & Sons December 27, 1905	December 27, 1905	1,618 00
* Pipe surface drains in Calumet st., between Hillside st. and 400 ft. John A. Costello & Co December 27, 1905	John A. Costello & Co	December 27, 1905	534 80

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* Pipe surface drains in Day st., between Minden and Heath sts D. B. Coleman Co December 27, 1905	D. E. Coleman Co	December 27, 1905	666 00
* Plpc sewer and drain in Wachusett st., between Weld Hill st. and 630 feet southwesterly	Charles J. Jacobs	December 27, 1905	3,772 00
* Pipe surface drains in Iroquois st., from Calumet st. 800 feet westerly John A. Costello & Co	John A. Costello & Co.	December 27, 1905	1,013 60
* Surface drains in St. Stephen st., between Bryan st. and Massachu- setts ave	Patrick McGovern	December 27, 1905	8,828 50
* Sewerage works in Morton st. and outlet in Lucerne st., between Harvest and Norfolk sts	John McMorrow	December 27, 1905	5,300 00
* Sewerage works in Harold st., between Holworthy and Crawford sts   George J. Regan		December 27, 1905	3,814 95
* Sewerage works in Wlaslow st., between Eastis and Palmer sts	James J. Coughlan Const. Co December 27, 1905	December 27, 1905	2,847 10
* Sewerage works in Westland entrance, between Rumford road and Hemenway st	William J. Barry December 27, 1905	December 27, 1905	4,138 70
* Sewerage works for Florence-street brook conduit, section 2, in pri- vate land between Florence and Ridge sts	George M. Bryne Co December 27, 1905	December 27, 1905	4,581 00
* Sewernge works in Geneva avc., between Normandy st. and Blue HII ave.	John Slattery December 27, 1905	December 27, 1905	4,928 55
* Sewerage works for Florence-street brook conduit, section 1, in Florence st., between Roslindale brook and Harrison st	John A. Rooney	December 27, 1905	5,062 00
* Pipe sewer and drains in Fremont pl., between Fremont st. and Cook's ct	George J. Regan	December 28, 1905	4,000 00
* Pipe drains in Rand st., between Brookford st. and Rand pl	P. Brennan & Co	December 28, 1905	1,403 00
* Pipe surface drain in Temple st., between Sanford and Monson sts	Thomas J. Finneran	December 30, 1905	715 00
* Pipe drains in Ashland st., between Florence-street branch of Stony Brook and Brown ave	John F. Cullen	December 30, 1905	1,883 00
* Pipe drains in Florence st., from Poplar st. 350 feet northeast of Ashland st	Dennis S. Ryan	December 30, 1905	1,600 00
* Pipe sewer and drain in Centre st., between Central and Guernsey sts. Michael Leonard December 30, 1905	Michael Leonard	December 30, 1905	• 3,638 00

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\* Work under these contracts was ordered stopped by the Mayor January 1, 1906.

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CONTRACT.	Awarded to	Dated	Cost of Contracts, as per Estimated Quantities, not including Materials furnished by the City.
* Pipe sewer in Kingsdale st. and outlet in Wales st	Stephen Shaughnessy	December 30, 1905	\$1,923 50
* Pipe sower and drains in Gladstone st., between Tower st. and existing sewer 340 feet easterly	C. P. Conlin	December 30, 1905	1,000 00
* Pipe drains in Homer st., between Moore and Byron sts	C. P. Conlin December 30, 1905	December 30, 1905	1,050 00
* Sewerage works in private land and across Ashland at, from Stony brook to Gilman st,, and in Ashland st, from private land 100 feet southerly	Thomas J. Finneran	December 30, 1905	1,807 00
* Work under these contracts was ordered stopped by the Mayor January 1, 1906.	rdered stopped by the Mayor Jan	lary 1, 1906.	
Bitulit	Bitulithic Pavement. <sup>1</sup>		
CONTRACT.	Awarded to	Dated	Price.
Thomas park	Warren Brothers Company	May 20, 1905	\$24,000 00
Dorchester street, between Broadway and Bighth street	Warren Brothers Company	June 2, 1905.	23,963 40
McLean street, between Chambers and Blossom streets	Warren Brothers Company	June 28, 1905	4,400 00
Allen street, between Chambers and Blossom streets	Warren Brothers Company	June 28, 1905	4,600 00
Boylston street, from Massachusetts avenue to the Parkway	Warren Brothers Company	July 21, 1905	14,200 00
Clarendon street, between Beacon and Boylston streets	Warren Brothers Company July 21, 1905	July 21, 1905	16,500 00

<b>5,2</b> 00 00 2,500 00	8,650 00	5,500 00	4,750 00		Price.	\$4,000 00		Price.	\$ <b>1,662</b> 50
August 17, 1905 September 21, 1905	September 21, 1905	September 21, 1905	November 18, 1905	date of completion.	Dated.	September 12, 1905		Dated	June 30, 1905
Warren Brothers Company	Warren Brothers Company	Warren Brothers Company	Warren Brothers Company	ety company bond for ten (10) years from Retaining Walls.	A warded to	John II. Broderick	Pile=driving for Sewers.	A warded to	Healey Sewer Machine and Con- struction Co
St. Alphonsus street, from Tremont street across Smith street	Tyler street, between Beach and Harvard streets, and between Oak and Curve streets	Harrison avenue, between East Springfield and Northampion streets	Alhany st., from the easterly side of Stonghton st. across E. Concord st., Warren Brothers Company November 18, 1905	<sup>1</sup> These streets are guaranteed by a surety company bond for ten (10) years from date of completion. <b>Retaining Walls.</b>	CONFRACT.	Retaining wall on Freeport street at estate of Mary A. Regan John H. Broderick	Pile-drivi	CONTRACT.	Furnishing and driving concrete piles for sewer in A street, between Melcher and Congress streets

Moon Island	Moon Island Construction, Etc.		
Contract.	Awarded to	Dated	Price.
Furnishing and installing two Tomlinson barometric tube condensers for sewage pumping engines Nos. 3 and 4 at the pumping station, Calf PastureAlles-Chalmers CompanyPastureJune 20, 1905Repairing and pointing walls of the storage reservoirs at Moon Island outfall sewerJule 20, 1905	Alles-Chalmers Company June 20, 1905	June 20, 1905 September 21, 1905	\$3,037 00 6,545 00
Excavating material and 'placing concrete around force mains at the pumping station, Calf Pasture	Connolly & Graham	September 29, 1905	For each cubic yard of earth excavation, includ- ing rediling thenches, the sum of eighty (80) cents. For each cubic yard of Fortland cement con- crete in place, including the placing of steel bands, the sum of three
Stony Broo	Stony Brook, Back Bay Fens.		(3) dollars.
CONTRACT.	Awarded to	Dated	Price.
Completing the construction of Gate House No. 1, etc., Stony Brook, Back Bay Fens	, Stony Brook, John B. Graham May 8, 1905	May 8, 1905	\$61,133 59

Moon Island Construction, Etc.

38

. CONTRACT.	Awarded to	Dated	Price.
Garbage disposal station, Calf Pasture, Dorchester	New England Sani Co	tury Product February 8, 1898 August 10, 1898, for 10 years	\$47,400 per year for 10 years. All grease and other ma- terials to become the property of said Taven- der.
Refuse disposal station, Atlantic avenue City Refuse Utilization Co September 10, 1898 \$5,500 per year for 10	City Refuse Utilization Co	September 10, 1898	\$5,500 per year for 10 years
Disposal of refuse wastes in the Brighton District	The City Waste Disposal Co December 13, 1899	December 13, 1899	\$500 per year for 10 years.
Remoring dead animals from public streets and places	The N. Ward Co	November 7, 1901, for 10 years No charge to clty.	No charge to clty.
Four (4) weighing machines at ferry head-bouses	The National Automatic Weigh- ing Machine Co	January 30, 1905	\$250 paid to the clty.
Lengthening and readjusting draw on Congress-street bridge	Seth Perkins	April 4, 1905	\$3,700
Furnlshing two Buffalo Pitts double cylinder steam road rollers	Buffalo Steam Roller Co	April 5, 1905	\$6,600
Grading in Geneva avenue at the New York & New England R.R John E. Gill	John E. Gill.	May 16, 1905	Foreach cubic yard earth excavation the sum of seventy-five (75) cents.
Moving building and wall and rebuilding same, Paving Division stable, Medford street, Charlestown	Lawler Bros June 13, 1905	June 13, 1905	\$1,850
Constructing Temple-street tunnel, West Roxbury	New York, New Haren & Hart. ford R.R. Co \$30,000	August 1, 1905	夺30,000
Repairing Cottage-street foot-bridge, East Boston	W. S. Rendle Co	October 4, 1905	\$4,237.10
Widening the opening for the passage of vessels at Dover-street bridge Cahill Construction Co October 28, 1905	Cahill Construction Co	October 28, 1905	\$6,502
		C.V.	

Miscellaneous Agreements.

STREET DEPARTMENT.

Miscellaneous Agreements.--- Concluded.

# Trinidad Asphalt.

City Proper.

STREET.	Llmite.	Ycar laid.	1901.	1902.	1903.	1904.	1905.
Albany street	30 feet north of Broadway, across Way street	1899				*	
Albany street	East Coucord street to 225 feet north of Massachusetts avenue	1884	\$0.029	\$0.019	\$0.090	\$0.029	\$0.082
Arch street H	Franklin street to Milk street	1893	.000	.065	.069	160.	.057
Ash street I	Bennet street to Nassau street	1887	.128	.064	.018	.033	
Barton court	Barton court	1894	.113	.113		+-	
Batterymarch street	Milk street to Liberty square	1896	*	000.	.000	•247	.004
Beacon street	Charles street, across Arlington street	1891	.075	.024	.047	.043	.048
Beacon street	Easterly side of Dartmouth street to within 150 feet of westerly line of Gloucester street	1892	.049	.020	.033	.060	.013
Beacon street	Beacon street	1898			*	.004	.006
Beacon street 6	68 feet west of Gloucester street to Massachusetts avenue	1893	.105	.016	.056	110.	.093
Bennet street 9	90 feet west of Harrison avenue to 162 feet cast of Washington street	1887	.065	.030	.162	.019	+
Bond street	Bond street Hanson street to Milford street	1895					/

### STREET DEPARTMENT.

41

† Repaved in this year.

\* Guarantee expired in this year.

TABLE SHOWING THE COST OF ASPHALT REPAIRS PER SQUARE YARD OF STREET SURFACE, FROM 1901 TO 1905 Inclusive.

STREET.	Limits.	Year laid.	1901.	1902.	1903.	1904.	1905.
Boylston street	Easterly side of Berkeley street, across Clarendon street	1897		*	\$0.080	\$0.033	\$0.070
Brattle square	Brattle street to Elm street	1888		\$0.038	.068		.072
Brighton street	Leverett street to Allen street	1892	\$0.090	.094	.136	.063	.127
Brimmer street	Beacon street to Pinckney street	1895	.030	.037	.072	.060	. 093
Broadway	Albany street to 105 feet west of Albany street	1899	:			*	.359
Castle street	Castle square, easterly	1899				*	
Cazenove street	Columbus avenue to 45 feet south of Columbus avenue	1899				*	
Central street.	Broad street to Kilby street	1887	.063	.048	.239	.141	.169
Chambers street	Green street, across Poplar street	1894	.175	+			
Chambers street	Brighton street to Charles street	1895		.003	.068	110.	.025
Chandler street	At Castle square	1899				*	
Charter street	Hanover street, across Unity street	1894	.107	.031	.146	.189	.192
Cherry street	Washington street to Shawmut avenue	1892		.029	.025		.047
Clark street	Hanover street to North street	1892	.035	.025	.102	.033	.027
Columbus avenue	Boston & Albany R.R. bridge, across Massachusetts avenue	1884-99	.102	.125	.178	<b>t.126</b>	.169
Columbus avenue	Massachusetts avenue to 301 feet south of Camden street	1896	*	.020	.037	.123	.193
Congress square	From Congress square to Congress street	1883-1900					*
Cooper street	North Margin street, across Endicott street	1887	.076	.030	.152	.128	.051
Cooper street	Endicott street to Charlestown street	1897		*	.189	.065	.158

Cost of Asphalt Repairs, 1901=1905. - Continued.

Corning street	Washington street to Shawmut avenue	1883-96	*	\$0.235	\$0.237	\$0.056	\$0.204
Court street	Washington street to Court square	1891-1904	.238	.334	.027	son	
Court square	Court street to Court street	1881	.178	.034	.063	1115	
Court square	Easterly and southerly side	1881-94	.176	.074	.118	171.	.107
Dartmouth street	Boylston street to Newbury street	1894		.007	**.089		
Davis street	Washington street to Harrison avenue	1892		.054	.072	.010	.082
Doane street	Kilby street to Broad street	1881	.032	.080	.198	.103	.043
Edinboro' street	Essex street to Beach street.	1895		.010	680.	.021	.113
Exchange place	Congress street to Kilby street	1887	.123	.036	+-		
Ferdinand street	At Castle square	1899				*	
Groton street	Washington street to Shawmut avenue	1892		.040	.045	.028	
Hanover avenue	Hauover street to North street	1892		.016	.301	.006	090.
Harrison avenue	East Newton street to East Springfield street	1888-95	.043	080.	.118	.017	.068
Harrison avenue	East Springfleld street to 90 feet southerly	1888	.043	.080	.118	.017	
Hayward place	Harrison avenue to Washington street	1898	:		*		+
Hollis street	Tremont street, towards Washington street	1891	.130	.036	.164	.150	.051
Hudson street	Beach street to 90 feet north of Curve street, minus Kneeland and 11ar- vard streets intersections	1891	.046	.064	101.	.037	.068
Killby street	Liberty square	1881	.037	.038	.028		
Kilby street	State street to Milk street, Including Liberty square	1881-98			*	11.030	.056
Laconia street	Washington street to Harrison avenue	1896	*	.042	.083		.027
La Grange street	Tremont, towards Washington streets	1897		*		.100	.068
* Guarantee expired in 1 § Resurfaced in this year.	this year. † Repaved. † From Boston & Albany R.R. bridge to Chandler street, guarantee expires in this year.    Westerly side repaved in this year. ** Part repaved in this year. †† State street to Central street repaved in this year.	to Chandl	er street,	guarante Central 6	e expires	s in this y aved in th	ear. nis year.

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Cost of Asphalt Repairs, 1901=1905 Continued	
Repairs,	ŕ
Asphalt	Limits.
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Cost	

STREET.	Limits.	Year laid.	1901.	1902.	1903.	1904.	1905.
Lincoln place	Worcester street to Springfield street	1897		*			
Malcolm street	Mount Vernon street to Chestnut street	1892		\$0.010	\$0.019		0.065
Massachusetts avenue	Massachusetts avenue Columbus avenue to Tremont street (southerly roadway)	1892	\$0.053	.033	.058	\$0.031	.034
Massachusetts avenue	Tremont street to Shawmut avenue (southerly roadway)	1892	.053	.033	.058	.031	710.
Massachusetts avenue	Shawmut avenue to Washington street (southerly roadway)	1892	.053	.033	.058	.031	.013
Moon street	North square to Lewis street.	1891	.017	010.	.098		.060
North Bennet street	Hanover street to Salem street	1883	.127	.132	.044	+-	
North Margin street	Stillman street to Charter street	1895		.015	260.	.015	.029
Oxford street	Beach street to Essex street	1895	010.		.048	900.	960.
Parkman street	North Anderson street, across Blossom street	1898			*		
Parmenter street	Hanover street to Salem street	1893		+			
Pinckney street	Charles street, across Brimmer street	1895		.002	.113	.032	.015
Pine street	Washington street to Harrison avenue	1896	*		.052		.081
Poplar street	Chambers street to Charles street	1887-92	.068	.054	.128	.032	.057
Public alley No. 301	Pinckney street to River street	1897			,		
Public alley No. 420		1897					
Spring street	Poplar street to Leverett street	1895	.024	.084	.279	160.	.107
Stevens street	Stevens street Lincoln place, towards Shawmut avenue	1897					
Stillman street	Stillman street Endicott street, across North Margin street.	1892		.030	.123		600.

Stoddard street	Stoddard street Howard street to Court street m. m. m. m. street	1892			.014	660.	
Sun Court street	Sun Court street North street to Moon street	1891	.182	.024	. 295	.069	.244
Thacher street	Charlestown street to Eudicott street	1892	.011	.011	.164	.006	.020
Tileston street	155 feet west of Hanover street, across Unity street	1887	.153	.209	.060	.173	
Tileston street	Unlty street to Salem street	1895	:			610.	
Tremont street	Tremont street At Castle square	1899				*	
Unity street	Charter street to Tileston street	1897		*	.021	.046	.066
Warrenton street	Elliot street to Tremont street	1884-91	.069	.020	.044	.050	.110
Warrenton street	Shawmut avenue to Washington street	168 r	690.	.020	.037	.027	.108
Water street	Congress street to Kilby street	1889	.203	÷			•
Water street	Water street Liberty square to Broad street	1896	*	200.	110.	.050	.013
Wiget street	Salem street to North Margin street	1897		*	.177		
Wiggiu street	Wiggiu street North Margin street to Tileston street	1887		.178	.068	.229	.197

## Charlestown.

Austin street	Austin street	1891	\$0.050	\$0.010	\$0.050 \$0.010 \$0.082	\$0.027	0.042
Bunker Hill street	Bunker Hill street At Tufts street	1897					
Charlestown Bridge	Charlestown Bridge Over Fitchburg Railroad	1899		.216		.877 1.127	3.41
Corey street	Corey street	1897		*			.042
Moulton street	Moulton street Easterly side of Corey street to Vine street	1897		*			
Moulton street	Moulton street Vine street to Bunker Hill street	1897		*			.012
Tufts street	Tufts street Bunker Hill street 141 feet northerly	1897		*			
Vine street	Vine street	1897		*			
	* Guarantee expired in this year.	tepaved i	Repaved in this year.	- - -		_	

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Repairs,
Asphalt
of
Cost

South Boston.

STREET.	Limits.	Year laid.	1901.	1902.	1902. 1903. 1904.	1904.	1905.
D street	West Fifth street to Gold street	1889	\$0.048	\$0.056	\$0.221	\$0.032	\$0.051
E street	West Third street to Bolton street	1892				.053	.035
Rogers street	Dorchester street to Preble street	1891			740.		
West Sixth street	160 feet east of C street, towards D street	1887		.154	.178	.032	.073
West Third street	153 feet west of E street, across E street	1892		.031		.054	
	Roxbury.		_	_		-	
Cabot street	Tremout street to Ruggles street	1891	\$0.022	\$0.027	\$0.023	\$0.002	\$0.019
Cabot street	Easterly side of Ruggles street to Vernon street	1992		010.	.012	.006	.020
Cabot street	Cabot street Easterly side of Vernon street to Linden Park street	1897		*		100.	•

\* Guarantee expired in this year.

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1896

STREET.	Limlts.	Year laid.	1901.	1902.	1903.	1904.	1905.
Acton street	Washington street to Bradford street	1896	*	\$0.054		\$0.008	\$0.010
Albany street	East side of Stonghton street, across East Concord street	1897		*	\$0.185	.205	1.048
Ash street	Oak street, across Nassau street	1895		.196		.183	.029
Avery street	Washington street to Mason street	1897		*	.175		++
Barton street	Leverett street to Milton street	1895	\$0.101	.015		.052	.019
Bradford street	Waltham street to Shawmut avenue	1897		*		.021	100.
Cobb street	Washington street to Shawmut avenue	1897		*			.042
Decatur street	Washington street to Shawmut avenue	1892		.098	.174	.052	.126
Dwight street	Shawmut avenue to Tremont street	1893		.030		.013	.022
Exeter place	Channey street to Harrison avenue	1897		*			.046
Fabin street	Newland street to Ivanhoe street	1895					.067
Fay street	Dover street to Harrison avenue	1894		660.	•296	.048	
Hamburg street	Mystic street to Harrison avenue	1896			.035	220.	.006
Hanover street	Tileston street, across Charter street	1896		.105	.179	.065	.144
Huntington avenue	Boston & Albany Railroad to Cumberland street	1896	*	.008	.013	.012	.017
Mason street	From 213 feet south of West street to 444 feet south of West street	1894	.300	660.	.533	.198	.256
Massachusetts avenue	Washington street to Harrison avenue (southerly roadway)	1894		.014	610.	.011	.013
* Guarantee expired in this year.	† Repaved with bitulithic in this year.	‡ Repaved in part with granite blocks this year	rt with gr	anite bloc	cks this ye	car.	

Sicilian Rock. City Proper.

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1901-1905(
Repairs,
Asphalt
Cost of

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STREET.	Limits.	Year laid.	1901.	1902.	1903.	1904.	1905.
Massachusetts avenue	Harrison avenue to Albany street	1894		\$0.014	\$0.019	\$0.011	\$0.034
Mayo street	Castle street to Cobb street	1897		*			. 065
Meander street	East Dedham street to Malden street	1896	*	.182	.014		.002
Motte street	Washington street to Harrison avenue	1892-99	\$0.161			.025	
Mystic street	Malden street to East Dedham street	1896	*		.046	.012	.085
Mystic street	East Dedham street to East Canton street	1896	*		.046	.012	.036
Mystic street	East Canton street to East Brookline street	1896	*		.046	.012	.036
North Margin street	Thacher street, towards Endicott street	1897		*	.095	.027	.095
Norwich street	Mystic street to Meander street	1896	*		.027		029
Ohio street	Washington street to Shawmut avenue	1896	*	.043		.077	.040
Pemberton square	Front of Suffolk County Court House	1894				.030	.008
Prince street	Hanover street to Bennet avenue	1895			.052	060.	.007
Shawmut avenue	132 feet south of Castle street, across Cherry street	1898			*	.057	.069
Taylor street	Dwight street to Milford street	1896	*	.014			.048
Whitmore street	Kneeland street to Harvard street	1895		.023			.063
	South Boston.						
Athens street.	West Second street to A street	1895					\$0.019

CITY DOCUMENT NO. 40.

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1892

Athens street...... B street to C street.....

	Roxbury.						
Columbus avenue	Columbus avenue Terry street to 61 fect north of Station street	1896	*	\$0.167	\$0.192	\$0.167 \$0.192 \$0.104 \$0.189	\$0.189
Huntington avenue	Huntington avenue Easterly side of Cumberland street to Massachusetts avenue	1896	*	.008	.013	.012	
Huntington avenue	Huntington avenue Massachusetts avenue to Gainshorough street	1896	*		.013	.012	610.
Ipswich street	Ipswich street Bridge over waterway	1898			*		.102
	Brighton.						

\* Guarantee expired in this year.

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1896

Cottage Farm Bridge....... Over Boston & Albany Ralitoad.......

Continued.
1901=1905
Repairs,
Asphalt
Cost of

Seyssel Rock.

STREET.	Limits.	Year laid.	1901.	1901. 1902.	1903.	1904.	1905.
Renesce street	Genesee street	1809				*	\$0.039
Mason street.	444 feet south of West street to Avery street	1899				*	
Oswego street	Harrison avenue to Albany street	1899				*	.006
Paul street	Emerald street to Village street	1897-99		*			
Paul street	Village street to Tremont street 1807-99			*			.015
Pelham street	Washington street to Shawmut avenue	1897		*	:	\$0.091	
Waterford street	Washington street to Shawmut avenue	1897		*		.149	.021
	Coal Tar.				_		
STREET.	Liulits.	Year laid.	1901.	1902.	<b>1901. 1902. 1903. 1904. 1905.</b>	1904.	1905.
Harris street	Hanover street to North street				\$0.076	+	

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CITY DOCUMENT NO. 40.

\$0.180

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\$0.282

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East Broadway to East Fourth street.....

I street.....

STREET.	Limits.	Year laid.	1901.	1901.   1902.   1908.   1904.	903.	1904.	1905.
Massachusetts avenue C Mt. Vernon street 1 Public alley No. 422	Columbus avenue to Tremont street (uortherly rondway) (asplialtina)       1897         Arelway under State House (limmer rock asplialt)       1897         Between Commonwealth avenue and Marlborough street, from Arling.       1897	1897		* +	\$0.092	\$0.104	<b>\$0.0</b> 93
* Gua	* Guarantee expired in this year.	nidad as	phalt in t	his year.			
	Cost of Asphalt Patching — 1905.						
	[Work done by the Barber Asphalt Paving Company.]	any.]					
	Trinidad Asphalt. <i>City Proper.</i>						
STREET.	Limits.		Area of Street.	Square Yards re- surfaced.	Pato	Cost of Patching.	Cost per Square Yard of Surface.
Albany street	Albany street East Concord street to 225 feet north of Massachusetts avenue		2,700	89.11		\$222 77	\$0.082
Arch street	Franklin street to Milk street		1,267	28.89	6	72 23	.057
Batterymarch street	Milk street to Liberty square		466	.66		1 65	.004
Beacon street	Charles street, across Arlington street		3,774	73.20		183 00	.048

Cost of Asphalt Repairs, 1901-1905.—Concluded. Other Asphalt. STREET DEPARTMENT.

905 Continued.
Patching, 1
Asphait
Cost of Aspł

STREET.	• Limits.	Area of Street.	Square Yards re- surfaced.	Cost of Patching.	Cost per Square Yard of Surface.
Beacon street	Basterly side Dartmouth street to within 150 feet of westerly line of Glouces the street.	9,277	48.33	\$120 83	\$0.013
Beacon street	. 150 feet from westerly line of Gloucester street to 65 feet beyond westerly line of Gloucester street.	1,183	3.00	7 50	.006
. Beacou street	68 feet west of Gloucester street to Massachusetts avenue	5,391	200.36	500 90	.093
Boylston street	Easterly side of Berkeley street, across Clarendon street	3,869	107.72	269 30	020.
Brattle square	. Brattle street to Elm street	670	19.33	48 33	.072
Brighton street	. Leverett street to Allen street	1,737	88.06	220 15	.127
Brimmer street	. Beacon street to Pinckney street	3,300	122.47	306 17	.093
Broadway	. Albany street to 105 feet west of Albany street	467	57.14	142 85	.359
Central street	. Broad street to Kilby street	869	58.91	147 27	.169
Chambers street	. Brighton street to Charles street	604	6.02	15 05	.025
Charter street	. Hanover street, across Unity street	636	48.79	121 98	.192
Cherry street	. Washington street to Shawmut avenue	594	11.18	27 95	.047
Clark street	. Hanover street to North street	614	6.54	16 35	.027
Columbus avenue	. Boston & Albany Railroad bridge, across Massachusetts avenue	15,000	1,012.73	2,531 83	.169
Columbus avenue	. Massachusetts avenue to 301 feet south of Camden street	5,418	419.34	1,048 35	.19.3
Cooper street	. North Margin street, across Endicott street	597	12.24	30 60	.051
Cooper street	. Endicott street to Charlestown street	604	38.33	95 83	.158
Corning street	. Washington street to Shawmut avenue	734	59.88	149 70	.204

Court square	From Court street easterly and southerly slde	1,130	48.48	121 20	.107
Davis street	Washington street to Harrison avenue	646	21.29	53 23	.082
Doane street	. Kilby street to Broad street	624	10.78	26 95	.043
Edinboro street	. Essex street to Beach street	924	41.81	104 52	.113
llanover avenue	Ilanover street to North street	266	6.35	15 88	.060
Harrison avenue	East Newton street to East Springfield street	2,681	73.07	182 67	.068
II ollis street	Tremont street, towards Washington street	521	10.72	26 80	.051
Iludson street	Beach street to 90 feet north of Curve street	3,938	107.08	267 70	.068
Kilby street	State street to Milk street	3,387	75.48	188 70	.056
Laconia street	Washington street to Harrison avenue	727	7.89	19 72	.027
La Grange street	Tremont street towards Washington street	355	9.63	24 08	.068
Malcolm street	Mount Vernon street to Chestnut street	290.	7.51	18 77	.065
Massachusetts avenue	Columbus avenue to Tremont street (southerly roadway)	1,621	22.35	55 88	.034
Massachusetts avenue	Tremont street to Shawmut avenue (southerly roadway)	2,943	19.76	49 40	710.
Massachusetts avenue	Shawmut avenue to Washington street (southerly roadway)	994	5.24	13 10	.013
Moon street.	North square to Lewis street	384	9.28	23 20	.060
North Margin street	Stillman street to Thacher street	1,154	13.53	33 83	020.
Oxford street	Beach street to Essex street	735	28.12	70 30	.096
Pinckney street	Charles street, across Brimmer street	723	4.47	11 17	.015
Pine street	Washington street to Harrison avenue	297	19.24	48 10	.081
Poplar street	Chambers street to Charles street	2,442	55.64	139 10	.057
Spring street	Poplar street to Leverett street.	908	38.75	96 87	.107

Continued.
1905 -
Patching,
Asphalt
Cost of .

Stillman street	Limits.	Street.	surfaced.	Patching.	Square Yard of Surface.
Sun Count street	Endloott street, across North Margin street	453	1.62	\$4 05	\$0.009
The subscription of the second s	. North street to Moon street	218	21.25	53 13	.244
Thacher street	Charlestown street to Endicott street	562	4.54	11 35	.020
Unity street	. Charter street to Tileston street	500	13.20	33 00	.066
Warrenton street	. Eliot street to Tremont street	1,587	69.99	174 97	.110
Warrenton street	Shawmut avenue to Washington street	910	39.31	98 28	.108
Water street	. Liberty square to Broad street	682	3.61	9 02	.013
Wiggin street	North Margin street to Tileston street.	119	9.38	23 45	761.
	Charlestown.				
Austin street	Seminary place to Lawrence street	451	7.66	\$19 15	\$0.42
Charlestown bridge	. Over Fitchburg Railroad	533	72.67	181 68	.341
Corey street	120 feet north of Moulton street to Moulton street	276	4.58	11 45	.042
Moulton street	Vine street to Bunker Hill street.	390	1.87	4 67	.012
	South Boston.				
D street	. West Fifth street to Gold street	448	9.09	\$22 73	\$0.051
E street	. West Third street to Bolton street	410	5.78	14 45	.035

CITY DOCUMENT NO. 40.

.073

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305

Cabot street	Tremont street to Ruggles street	3,571	27.37	\$68 43	\$0.019
Cabot street	Easterly side of Ruggles street to Vernon street	2,988	23.62	59 05	.020
Columbus avenue	301 fect south of Camden street, across Terry street	15,840	377.69	944 23	.060
			3,850.86	\$9,627 15	
	Sicilian Rock Asphalt.—Patching.				
	City Proper.				
STREET.	Limits.	Area of Street.	Square Yards re- surfaced.	Cost of Patching.	Cost per Square Yard of Surface.
Actou street	Washington street to Bradford street	352	1.44	\$3 60	<b>\$0.010</b>
Albany street	Easterly side of Stonghton street, across East Concord street	1,710	32.99	82 48	.048
Ash street	Oak street, across Nassau street	391	4.63	11 57	.029
Barton street	Leverett street to Milton street	683	5.25	13 13	<b>610</b> .
Bradford street	Waltham street to Shawmut avenue	1,270	0.34	0 85	100.
Cobb street	Washington street to Shawmut avenue	1,041	17.49	43 72	.042
Decatur street	Washington street to Harrison avenue	781	39.47	98 68	.126
liwight street	Shawmut avenue to Tremont street	2,075	18.47	46 17	.022
Exeter place	Chauney street to Harrison avenue	387	7.09	17 73	.046
Fabin street	Newland street to Ivanhoe street	615	16.47	41 17	.087

### Roxbury.

### STREET DEPARTMENT.

- Continued.
1905
Patching,
Asphalt
Cost of

STREET.	Lámits.	Area of Street.	Square Yards re- surfaced.	Cost of Patching.	Cost per Square Yard of Surface.
Hamburg street	Mystic street to IIarrison avonue	597	1.44	\$3 60	\$0.006
Hanover street	. Tileston street, across Charter street	934	53.65	134 13	.144
Huutington avenue	Boston & Albany R.R. bridge to Massachusetts avenue	12,990	90.49	226 22	.017
Mason street	213 feet south of West street to 444 feet south of West street	470	48.16	120 40	.256
Massachusetts avenue	Washington street to Harrison avenue southerly roadway	2,030	10.91	27 28	.013
Massachusetts aveuue	IIarrison avenue to Allbany street southerly roadway	2,121	28.08	70 20	.034
Mayo street	Castle street to Cobb street.	418	10.88	27 20	.065
Mcander street	East Dedham street to Malden street	437	0.41		.002
Mystic street	Malden street to East Dedham street.	226	7.74	19.35	085
Mystic street	East Dedham street to East Brookline street	672	9.60	24 00	036
North Margin street	Thucher street, towards Endicott street	518	19.69	49.22	095
Norwich street	Mystic street to Meander street	339	3.98	9.95	060
Ohio street	Washington street to Shawmut avenue	277	4.38	10.95	040
Pemberton square	Front of Suffolk County Court-house.	1.365	4.31	10.78	800
Prince street	Hanover street to Bennet street.	654	1.86	4 65	200-
Shawmut avenue	132 feet south of Castle street, across Cherry street	945	26.14	65 35	690.
Taylor street	Dwight street to Milford street.	274	5.32	13 30	.048
Whitmore street	Kneeland street to Harvard street	445	11.20	28 00	.063

	South Boston.				
Athens street	West Second street to A street	916	7.00	\$17 50	\$0.019
Athens street	B to C street	746	8.64	21 60	.028
East Broadway	East Broadway	1,000	44.15	110 37	.110
li street	K street	1,083	20.91	52 28	.048
West Broadway	West Broadway 196 feet east of easterly line of Dorchester avenue to A street	1,440	105.69	264 22	183
West Broadway	West Broadway	648	39.45	98 63	.152
West Broadway	West Broudway New England Bridge to E street (4-foot gutters)	1,487	123.42	308 55	-
West Broadway	West Broadway		4.44	3 33	60Z. (
West Broadway	West Broadway	1,544	60.69	172 72	.112
West Broadway	West Broadway	1,818	45.00	112 50	.062
	Rozhury.	-	-		
Columbus avenue	Terry street to 61 feet north of Station street	5,304	399.70	\$999 25	\$0.189
If untington avenue	Massachnsetts avenue to Gainsborough street	3,372	25.98	64 95	.019
Ipswich street	Ipswich street Bridge over Waterway	267	10.91	27 28	.102

STREET DEPARTMENT.

57

\$3,457 88

1,381.82

	Seyssel Rock.				
STREET.	Limits.	Area of Street.	Square Yards re- surfaced.	Square Yards re- Burfaced, Patching, Square Surfaced, Burfaced, Surface.	Cost per Square Yard of Surface.
Genesee street	Genesee street Ilarrison avenue to Albuny street	1,122	17.34	\$43 35	\$0.039
Oswego street	Harrison avenue to Albany street.	1,068	2.42	6 05	.006
Paul street	Paul street	456	2.65	6 63	.015

Cost of Asphalt Patching, 1905.-Concluded.

	, Other Asphalts.				
STREET.	Limits.	Area of Street.	Area of Square Cost of Street. Patching.	Cost of Patching.	Cost per Square Yard of Surface.
I street.	. East Broadway to East Fourth street (coal tar)	1,027	73.76	\$184 40	\$0.180
Massachusetts avenue	Massachusetts avenue	1,622		60.56 151 40	.093
			134.32	\$335 80	

### CITY DOCUMENT NO. 40.

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2.654.48 26.89

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Washington street to Shawmut ayenue.....

Waterford street.....

58

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59

27.75

\$13,512.50

### Comparative Cost of Patching.

### Trinidad Asphalt.

Total area of Trinidad asphalt on which guarantee has	
expired	3 sq. yds.
Total cost of patching Trinidad asphalt on which guaran-	
	\$9,627.15
Average cost per square yard for patching Trinidad	
asphalt on which guarantee has expired	\$0.073

### Sicilian Rock Asphalt.

Total area of Sicilian Rock asphalt on which guarantee	
has expired	57,549 sq. yds.
Total cost of patching Sicilian Rock asphalt on which	
guarantee has expired,	\$3,457.88
Average cost per square yard for patching Sicilian Rock	
asphalt on which guarantee has expired	\$0.060

### Seyssel Rock Asphalt.

Total area of Seyssel Rock asphalt on which guarantee	
has expired	4,384 sq. yds.
Total cost of patching Seyssel Rock asphalt on which	
guarantee has expired	\$67.33
Average cost per square yard for patching Seyssel Rock	
asphalt on which guarantee has expired	0.015

### Other Asphalts.

3,166 sq. yds. \$335.80 \$0.106
96,932 sq. yds. \$0.069
\$13,484.75

a change of grade .....

### Street Mileage.

The following table shows the length of public highways and character of the pavements, February 1, 1906:

DISTRICTS.	Asphalt.	Granite Block.	Wooden Block.	Plank on Bridges.	Brick.	Cobble.	Bitulithic.	Macadam.	Gravel.	Not Graded.	Totals.
Year 1904 report	20.71	95.62	0.91	2.10	0.38	0.30	3.16	<b>334.</b> 00	38.54	6.48	502.20
February 1, 1906.											
City Proper	16.55	43.56	0.74	0.69	0.34	0.15	2.99	26.72	0.11	0.79	92.64
Charlestown	0.30	10.96		0.22		0.01		11.98	0.02		23.49
East Boston	0.05	5.95		0.19		0.14	0.03	20.52	1.01	0.26	28.15
South Boston	1.86	17.04		0.33			1.04	19.90	1.27	3.39	44.83
Roxbury	2.40	12.32	0.17	0.08			0.94	64.54	3.76	0.40	84.61
West Roxbury		0.59		0.09				75.30	5.02	0.84	81.84
Dorchester		5.92		0.23	0.04			88.41	11.27	0.16	106.03
Brighton	•••••			0.26				29.73	11.11	0.11	41.21
Total	*21.16	†96.34	0.91	2.09	0.38	0.30	5.00	337.10	33.57	5.95	502.80

NOTE. — The above districts refer to areas enclosed by the original boundary lines.
\* Of this amount 0.22 miles = asphalt blocks.
† of this amount 16.24 miles = granite block paving on concrete base.
4.71 miles of public alleys, chapter 298, Acts of 1898, included in this table. In addition to this table there are 0.85 miles accepted foot passageways.

Total length of public streets, 502.80 miles.

There have been laid out and accepted by the Street Commissioners during the year 0.51 linear miles of public streets; corrections to previous measurements on account of revision and other causes show an increase of 0.09 miles, making a total net increase of 0.60 miles.

The rate of increase from year to year is shown in the following table:

1859111.50	miles.	1883367.99 r	miles.	1896456.11	miles.
1871201.32	"	1884374.10	"	1897459.12	"
1872207.40	6.6	1885379.60	"	1898471.19	"
1873209.24	" "	1886383.55	"	1899479.47	**
1874313.90	4.6	1887390.30	"	1900489.55	"
1875318.58	" "	1888392.72	"	1901491.85	"
1876327.50	"	1889397.84	**	1902496.90	£6 .
1877333.20	" "	1890404.60	"	1903499.85	"
1878340.39	£ 6	1891409.60	"	1904500.39	**
1879345.19	"	1892434.59	"	1905502.20	" "
1880350.54	" "	1893443.34	"	1906 <b>502.80</b>	"
1881355.50	"	1894447.65			
1882359.85	"	1895452.12			

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The following Tahle shows the Area of Pavements in Square Yards by Districts.

		Granita	Wooden	Plank on						Not	E
Pehrnary 1, 1904	Asphalt.	Block.	Block.	Bridges.	Brick.	Cobble.	Bitulithie.	Bitulithic, Macadam.	GTAVEL.	Graded.	Totals.
	335,265	2,108,254	23,653	43,353	3,670	2,340	59,914	6,077,260	604,991	252,655	9,511,355
City Proper	252,975	962,197	20,013	15,153	3,177	1,403	58,269	564,983	1,449	18,494	1,898,113
Charlestown	4,810	254,275	••••••	5,130		40		176,023	275		440,553
East Boston	600	126,659		2,763		268	620	424,277	20,849	12,034	588,699
South Boston	22,832	373,651		7,238			17,784	365,019	30,739	114,876	932,139
Roxbury	54,351	275,425	3,640	2,205			17,007	1,111,256	53,836	9,172	1,526,892
West Roxbury		13,459		1,877				1,252,719	78,706	32,409	1,379,170
Dorchester		122,771		4,758	493			1,562,045	180,562	22,617	1, 893, 246
Brighton	130			4,094				699,346	157,099	4,232	864,901
Totals	* 335,698	† 2,128,437	23,653	43,218	3,670	2,340	93,680	6,155,668	523,515	213,834	9,523,713

NOTE. — The above districts refer to areas enclosed by the original boundary lines. — Of this amount 2,537 square yards = asphalt blocks. — Of this amount 42,635 square yards = granhe block paying on concrete base. 24.341 square yards of public nillys laid out under chapter 295, Acts of 1985, included in this table. In addition to this table there are 4,390 square yards accepted foot passageways.

STREET DEPARTMENT.

61

### CENTRAL OFFICE DIVISION.

EXPENSES OF THE CENTRAL OFFICE.

For the current expenses of the Central Office the City Council appropriated the sum of twenty-one thousand dollars (\$21,000), to which was transferred from "Reserve Fund" the sum of one thousand dollars (\$1,000), making a total appropriation of twenty-two thousand dollars (\$22,000), which was expended as follows:

Salaries General of					•			
Total	•	•	•	•	•	•	•	\$21,902 91

leaving a balance of ninety-seven dollars and nine cents (\$97.09), which was transferred to the Street Watering Division.

Respectfully submitted,

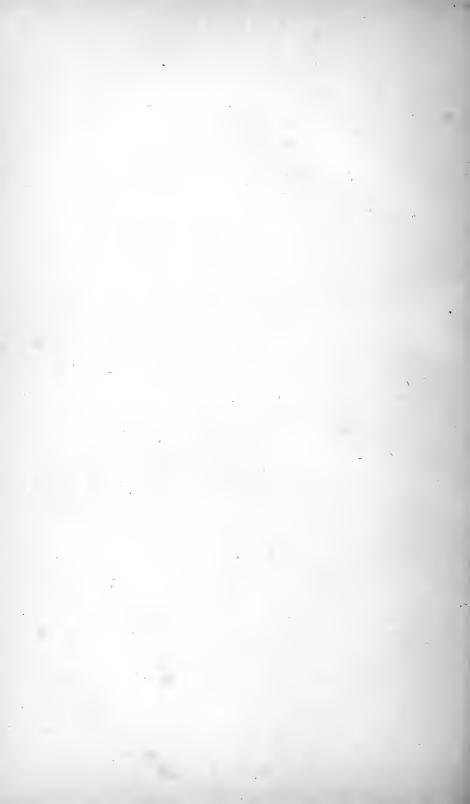
CHARLES LOGUE,

Acting Superintendent of Streets.

PART II.

# APPENDICES.

PAGES I TO 312.



### APPENDIX A.

### REPORT OF THE DEPUTY SUPERINTENDENT OF THE BRIDGE DIVISION.

926, 927 AND 928 TREMONT BUILDING, BOSTON, February 1, 1906.

MR. CHARLES LOGUE,

Acting Superintendent of Streets:

DEAR SIR, — I respectfully submit herewith the annual report of the expenditures, income and operations of the Bridge Division of the Street Department for the financial year ending January 31, 1906.

There are in the City of Boston 159 bridges, not including culverts. Seven of these, namely, Harvard, West Boston (temporary), Prison Point, Cambridge street, Essex street, Western avenue to Cambridge, and North Harvard street, all connecting Boston and Cambridge, are in charge of two commissioners, one of whom is appointed by the Mayor of the City of Boston and the other by the Mayor of the City of Cambridge. One, Craigie's, from Boston to Cambridge, is in charge of the Charles River Basin Commission, and will be replaced by the Charles River Dam, now under construction.

One hundred fifteen bridges are supported wholly or in part by the City of Boston, twenty-seven of these being tidewater bridges provided with a draw.

Forty-two bridges are supported wholly by railroad corporations.

There are thirteen important tide-water bridges maintained by the City of Boston, namely, Mt. Washington avenue, operated by hand power; Broadway, Chelsea South, Congress street, L street and Warren, operated by steam power; and Charlestown, Chelsea North, Dorchester avenue (formerly Federal street), Dover street, Malden, Meridian street and Summer street, operated by electricity.

The force employed on the tide-water bridges is on an eighthour basis, which necessitates the employment of nine men on each of twelve bridges, and twelve men on the Charlestown bridge, making a total force of one hundred and twenty men employed on the thirteen principal drawbridges.

Repairs have been made on the different bridges at various times; the operating machinery on the drawbridges has been frequently inspected and such repairs made as were needed, and the surfaces and structures of the different inland bridges have received attention, from time to time, as the necessity arose, and all defects promptly and properly remedied.

I would respectfully call your attention to the badly corroded condition of the Huntington-avenue bridge over the Boston & Albany Railroad.

From an inspection made by the City Engineer when this bridge was last repaired, it was fully demonstrated that public safety demands that an appropriation be made during the coming year to rebuild it as soon as possible. According to an estimate of the City Engineer, this would cost about \$35,000.

The Mt. Washington-avenue bridge was closed to public travel on July 11, 1904, and the draw-way of the South Boston channel was widened to fifty feet, as ordered by the Secretary of War.

No additional work has been done on this bridge, and it has been closed to public travel now for over one and onehalf years.

Some action should be taken to either abolish and remove the bridge, or to re-open it during the coming year, as in its present condition it is an expense to the city, without any corresponding benefit to the public.

Respectfully submitted,

DANIEL J. BYRNE, Acting Deputy Superintendent.

### OBJECT OF EXPENDITURES.

### Administration.

Office expenses :							
Salaries, deputy superint	end	ent and	d offi	ice forc	е.	\$6,330	08
Salaries, supervisors						3,703	94
Telephones, office, yards	s and	d depu	ty's	house		530	40
Printing				\$684			
Stationery				257			
Sundry office expenses :							
Advertising		\$180	98	•			
Furniture		167					
Travelling expenses		90					
ravening expenses	·		00	438	39	1,380	12
				100	00	1,000	1.2
Total expended, admi	nist	ration				\$11,944	54
roun enpended, adm			•	·	•		
MAINTE	INAI	NCE E	XPE	NSES.			
Administration .						\$11,944	54
On tide-water bridges .	•	•	•	•	•	140,266	
0	•	•	•	•	•	140,200 11,033	
On inland bridges .	•	•		•	•	· · ·	
North yard and stable	·	•	•	•	•	9,654	
South yard and stable .	•	•	•	•	•	$11,\!665$	81
						A101 501	~ .
Total	•	•	•	•	•	\$184,564	<b>54</b>
						and the second second	

### FINANCIAL STATEMENT.

### MAINTENANCE APPROPRIATION.

Appropriation, 1905–06	•		·	•	•	\$185,000	00
Amount of expenditures, to January 31, 1906 Transfer to Street Wateri			•	•		\$184,564 435	
Total		•	•	•		\$185,000	00

NAME OF APPROPRIATION.	Appropriation and Balances.	Expended Feb. 1, 1905, to Jan. 31, 1906.	Balance on hand, Jan. 31, 1906.
Chelsea bridge, south draw, recon- struction of	\$15,000 00		\$15,000 00
Congress-street bridge, repairs	613 76	\$506 18	107 58
* Construction of piers, Bridge Divi- sion	882 60	88 16	
Cottage-street bridge, reconstruction of	7,000 00	4,674 96	2,325 04
Dover-street bridge, widening of draw opening.	9,000 00	1,390 41	7,609 59
* Electrical installation and construc- tion, Bridge Division	101 17		
* New trucks, Bridge Division	1,100 00	156 54	
Totals	\$33,697 53	\$6,816 25	\$25,042 21
* The following balances of above at ments, Street Department, December 19 Construction of piers, Bridge Divisi Electrical installation and construe New trucks, Bridge Division Total transferred	), 1905 : on etion, Bridge Di	vision	\$794 44 101 17 943 46
Amount of expenditures, Fe January 31, 1906 Amount transferred to street i Balance		• •	\$6,816 25 1,839 07 25,042 21

SPECIAL APPROPRIATIONS IN CHARGE OF THE BRIDGE DIVISION.

oundar, 01, 1000	•	•	•	•	•	Ψ0,010 /	20
Amount transferred to stre	eet imj	provei	ments			1,839	07
Balance	·	•	•	•	•	25,042	21
Amount of appropriat	tions	·	•	•	•	\$33,697	53
Amount expended and o	charge	d to	main	tenar	ice		
appropriation .						\$184,564	54
Amount expended and cha	arged	to Bri	idge 1	Jivisi	on		
specials	•		•	•	•	6,816	25
		•					
Grand total of expend	ditures	from	Febi	ruary	1,		
1905, to January 3						\$191,380	79

### INCOME.

The amount of bills deposited with the City Collector during the year was \$1,263.29; and the amount received by the City Collector on account of the Bridge Division during the same period was \$1,141.97.

The following is a list of the amounts expended on the different bridges in charge of this division:

### STREET DEPARTMENT — BRIDGE DIVISION. 7

NAME OF BRIDGE.	Repairs, Labor and Material.	Regular Expenses, Salaries, Fuel and Supplies.	Totals.
Broadway.	\$1,780 58	\$7,796 32	\$9,576 90
Charlestown	4,815 20	11,611 29	16,426 49
Chelsea (north)	960 43	7,828-33	8,788 76
Chelsea (sonth)	831 02	8,220 30	9,051 32
Chelsea street	174 81	$315 \ 70$	490 51
Commercial Point (or Tenean)	314 34	50 00	364 34
Congress street	3,757 39	8,019 40	11,776 79
Dorchester avenue	1,853 77	8,864 60	10,718 37
Dover street	1,247 80	7,944 01	9,191 81
Granite	<b>11</b> 6 66	239 20	355 86
L street	581 19	8,176 09	8,757-28
Malden	812 90	7,905 26	8,718 16
Meridian street	1,742 36	7,814 45	9,556 81
Mt. Washington avenue	16 94	7,447 39	7,464 33
Neponset	290 63	398 84	689 47
North Beacon street	$726 \ 31$	199 43	925 74
Summer street	2,934 52	8,590 65	11,525 17
Warren	4,135 89	8,602 22	12,738 11
Western avenue to Watertown	196 01	199 41	$395 \ 42$
Winthrop	579 23	112 50	- 691 73
Sundry expenditures	865 29	526 33	1,391 62
Public Landings:			
Jeffries Point		396 07	396 07
East Boston		275 00	275 00
Totals	\$28,733 27	\$111,532 79	\$140,266 06

### TIDE-WATER BRIDGES.

### INLAND BRIDGES.

NAME OF BRIDGE.	Repairs, Labor and Materials.
Albany street	\$212 74
Allston.	472 28
Ashmont	185 12
Athens street	16 00
Beacon street (over Boston & Albany Railroad)	178 10
Bennington streetBerkeley street	117 02
Berkeley street	137 87
Berwick Park (foot-bridge)	4 00
Bolton street	436 03
Boston street	$76 \ 11$
Boylston street (over Boston & Albany Railroad)	217 73
Broadway (over Boston & Albany Railroad)	. 358 70
Brookline avenue Cambridge street (over Boston & Maine Railroad)	$761 \ 20$
Cambridge street (over Boston & Maine Railroad)	29 19
Central avenue	4 50
Columbus avenue	$237 \ 76$
Cottage street (foot-bridge)	690 50
Dartmouth street	342 00
Dorchester avenue (over Plymouth Division)	66 86
Elmwood street	9 00
Everett street (Brighton)	409 60
Ferdinand street	1,066 28
Florence street	64  12
Huntington avenue	$142 \ 67$
Linden Park street	32 93
Massachusetts avenue (Boston & Albany Railroad)	313 08
Massachusetts avenue (Boston & Providence Railroad)	$153 \ 91$
Milton	108 57
Perkins street	6 00
Southampton street (east)	981 93
Southampton street (west)	146 02
Southampton street (over Plymouth Division)	69 05
West Fourth street (at Dover street)	752 22
West Newton street	189 36
Williams street	454 71
Sundry expenditures	1,590 82
Total expenditures on inland bridges	\$11,033 98

MAINTENANCE EXPENSES AT THE NORTH AND SOUTH YARDS. District No. 1, Warren Bridge.

North Yard North Stable		•		. ,	
				\$9,654	15

District No. 2, 168-170 Broadway Extension.

South Yard								\$5,456 93
South Stable	·	•	•	•	•	•	•	6,208 88
								\$11,665 81

### LIST OF BOSTON BRIDGES.

I. - BRIDGES WHOLLY MAINTAINED BY BOSTON.

[In the list those marked with an asterisk (\*) are over navigable waters, and are each provided with a draw.]

### In Charge of Bridge Division.

- Allston, over Boston & Albany Railroad at Cambridge street, Brighton.
- Ashland street, over N. Y., N. H. & H. Railroad, Providence Division, West Roxbury.
- Athens street, over N. Y., N. H. & H. Railroad, Midland Division.
- Baker street, at Brook Farm, West Roxbury.
- Beacon street, over outlet to Back Bay Fens.
- Beacon street, over Boston & Albany Railroad.
- Bennington street, over Boston, Revere Beach & Lynn Railroad. Berkeley street, over Boston & Albany Railroad.
- Berwick park (foot-bridge), over N. Y., N. H. & H. Railroad, Providence Division.
- Blakemore street, over N. Y., N. H. & H. Railroad, Providence Division.
- Bolton street, over N. Y., N. H. & H. Railroad, Midland Division.
- Boylston street, over Boston & Albany Railroad.
- \* Broadway, over Fort Point channel.
- Broadway, over Boston & Albany Railroad.
- Brookline avenue, over Boston & Albany Railroad.
- Brooks-street bridge, Brighton.

Byron street, over Boston, Revere Beach & Lynn Railroad.

- Charlesgate, over Ipswich street.
- \* Charlestown, from Boston to Charlestown.
- \* Chelsea [South], over south channel, Mystic river.
- \* Chelsea street, from East Boston to Chelsea.
- Columbus avenue, over Boston & Albany Railroad.
- \* Commercial Point, or Tenean, Dorchester.
- \* Congress street, over Fort Point channel.
- Cottage Farm, over Boston & Albany Railroad, at Commonwealth avenue.
- Cottage street (foot-bridge), over flats, East Boston.
- Dartmouth street, over Boston & Albany Railroad.
- \* Dorchester avenue (formerly Federal street), over Fort Point channel.
- \* Dover street, over Fort Point channel.
- Elmwood street (private way), over Stony brook, Roxbury.
- Ferdinand street, over Boston & Albany Railroad.
- Florence street, over Stony brook, West Roxbury.
- Gainsborough street (foot-bridge), over N. Y., N. H. & H. Railroad, Providence Division.

- Gold street (foot-bridge), over N: Y., N. H. & H. Railroad, Midland Division.
- Huntington avenue, over Boston & Albany Railroad.
- Hyde Park avenue, over Stony brook, West Roxbury.
- Ipswich street, over waterway.
- Irvington street (foot-bridge), over N. Y., N. H. & H. Railroad, Providence Division.
- Keyes street, over Stony brook, West Roxbury.
- \* L street, over reserved channel at junction of Summer and L streets. -
- Linden Park, over Stony brook, Roxbury.
- \* Malden, from Charlestown to Everett.
- Massachusetts avenue, over Boston & Albany Railroad.
- Massachusetts avenue, over N. Y., N. H. & H. Railroad, Providence Division.
- \* Meridian street, from East Boston to Chelsea.
- \* Mt. Washington avenue, over Fort Point channel.
- Shawmut avenue, over Boston & Albany and N. Y., N. H. & H. Railroad, Providence Division.
- Southampton street, east of N. Y., N. H. & H. Railroad, Midland Division.
- Southampton street, west of N. Y., N. H. & H. Railroad, Midland Division.
- Summer street, over A street.
- Summer street, over B street.
- Summer street, over C street.
- \* Summer street, over Fort Point channel.
- \* Warren, from Boston to Charlestown.
- West Newton street, over N. Y., N. H. & H. Railroad, Providence Division.
- West Rutland square (foot-bridge), over N. Y., N. H. & H. Railroad, Providence Division.
- Williams street, over Stony brook, West Roxbury.

Winthrop, from Breed's Island to Winthrop.

### In Charge of Park Department.

Agassiz, in Fens.

Audubon, in Riverway, over Boston & Albany Railroad.

Bernier-street foot-bridge, over Muddy river.

Boylston, in Fens, over waterway.

Bridle-path, in Riverway, over Muddy river.

\* Castle Island, in Marine Park, South Boston, to Castle Island.

Charlesgate, in Fens, over Boston & Albany Railroad.

Commonwealth avenue, in Fens, over waterway.

Ellicott Arch, in Franklin Park.

Fen, in Fens.

Forest Hills, in Franklin Park.

- Leverett pond (foot) in Leverett Park.
- Neptune, in Wood Island Park, over Boston, Revere Beach & Lynn Railroad.

•

Overlook Arch, in Franklin Park. Scarboro', in Franklin Park. Scarboro' pond (foot), in Franklin Park. Stony brook, in Arborway. Stony brook, in Fens. Wood Island (foot), in Wood Island Park.

### In Charge of Public Grounds Department.

Public Garden (foot-bridge).

## II. — BRIDGES OF WHICH BOSTON MAINTAINS THE PART WITHIN ITS LIMITS.

### In Charge of Bridge Division.

Central avenue, from Dorchester to Milton. \* Chelsea [North], from Charlestown to Chelsea. \* Granite, from Dorchester to Milton. Milton, from Dorchester to Milton. \* Neponset, from Dorchester to Quincy. \* North Beacon street, from Brighton to Watertown. Spring street, from West Roxbury to Dedham. \* Western avenue, from Brighton to Watertown. *In Charge of Park Department.* Bellevue, in the Riverway, over Muddy river. Bernier-street foot-bridge, over Muddy river.

Bernier-street foot-bridge, over Muddy river. Brookline avenue, in the Riverway, over Muddy river. Huntington avenue, in the Riverway, over Muddy river. Longwood, in the Riverway, over Muddy river.

### III. — BRIDGES OF WHICH BOSTON PAYS A PART OF THE COST OF MAINTENANCE.

### In Charge of Bridge Division.

Albany street, over Boston & Albany Railroad (over freight tracks).

Ashmont, junction Dorchester avenue and Talbot avenue, over N. Y., N. H. & H. Railroad, Plymouth Division (75 feet south of northerly end).

Harvard street, over N. Y., N. II. & H. Railroad, Midland Division (sidewalks).

In Charge of Commissioners of Cambridge Bridges.

- \* Cambridge street, from Brighton to Cambridge.
- \* Essex street, from Brighton to Cambridge.
- \* Harvard, from Boston to Cambridge.
- \* North Harvard street, from Brighton to Cambridge.
- \* Prison Point, from Charlestown to Cambridge.

\* West Boston (temporary), from Boston to Cambridge.

\* Western avenue, from Brighton to Cambridge.

### IV. -- BRIDGES OF WHICH BOSTON MAINTAINS THE WEARING SURFACE.

### In Charge of Bridge Division.

- Blue Hill avenue, over N. Y., N. H. & H. Railroad, Midland Division.
- Boston street, over N. Y., N. H. & H. Railroad, Plymouth Division.

Cambridge street, over Boston & Maine Railroad.

- Chelsea bridge, over Boston & Maine Railroad.
- Dorchester avenue, over N. Y., N. H. & H. Railroad, Plymouth Division.

Everett street, over Boston & Albany Railroad, Brighton.

- Norfolk street, over N. Y., N. H. & H. Railroad, Midland Division, Mattapan.
- Oakland street, over N. Y., N. H. & H. Railroad, Midland Division, Mattapan.
- Perkins street (foot-bridge), over Boston & Maine Railroad.
- Summer street, over N. Y., N. H. & H. Railroad, Midland Division.
- Southampton street, over N. Y., N. H. & H. Railroad, Plymouth Division.
- West Fourth street, over N. Y., N. H. & H. Railroad, Plymouth Division.

In Charge of Bridge Division and Park Department.

Columbia road, over N. Y., N. H. & H. Railroad, Plymouth Division.

Columbia road, over Shoreham street.

V. — BRIDGE MAINTAINED BY CHARLES RIVER BASIN COMMISSION. Craigie's, Boston to Cambridge.

VI. — BRIDGE MAINTAINED BY METROPOLITAN PARK COMMISSION. Mattapan bridge.

VII. --- BRIDGES MAINTAINED BY RAILROAD CORPORATIONS.

1st. - Boston & Albany Railroad.

Albany street (over passenger tracks). Harrison avenue. Market street, Brighton. Tremont street. Washington street. 2d. — Boston & Maine and Boston & Albany Railroads. Main street. Mystic avenue.

3d. — Boston & Maine Railroad, Eastern Division. Wauwatosa avenue, East Boston.

4th. - Boston, Revere Beach & Lynn Railroad.

Everett street.

### 5th. — New York, New Haven & Hartford Railroad, Midland Division.

Dorchester avenue. Morton street, Dorchester. Norfolk street, Dorchester (near Dorchester station). Silver street. Washington street, Dorchester. West Broadway. West Fifth street. West Fourth street. West Second street. West Sixth street. West Sixth street. West Third street.

### 6th. — New York, New Haven & Hartford Railroad, Plymouth Division.

Adams street. Cedar Grove Cemetery. Freeport street. Medway street. Savin Hill avenue.

7th. — New York, New Haven & Hartford Railroad, Providence Division.

Albany street. New part. Beech street, West Roxbury. Bellevue street, West Roxbury. Berkeley street. New part. Broadway. New part. Canterbury street, West Roxbury. Castle street. Centre and Mt. Vernon streets, West Roxbury. Chandler street. Columbus avenue. New part. Dartmouth street. New part. Dudley avenue, West Roxbury. Ferdinand street. New part. Harrison avenue. New part.

### Park street, West Roxbury. Tremont street. New part. Washington street. New part.

### RECAPITULATION OF BRIDGES.

1.	Number wholly maintained by Boston : In charge of Bridge Division In charge of Park Department In charge of Public Grounds Department,	$58 \\ 19 \\ 1$	78
II.	Number of which Boston maintains the part		
	within its limits : In charge of Bridge Division In charge of Park Department	8 5	13
111.	Number of which Boston pays a part of the cost of maintenance :		10
	In charge of Bridge Division In charge of Commissioners of Boston and	3	
	Cambridge Bridges	7	10
IV.	surface :		
	In charge of Bridge Division	12	
	In charge of Bridge and Park Departments,	2	14
v.	Number maintained by Charles River Basin		ТТ
	Commission		1
VI.	Number maintained by Metropolitan Park		-
VII.	Commission	•	1
V 11.	1. Boston & Albany         .	5	
	2. Boston & Maine and Boston & Albany		
	Railroads	2	
	3. Boston & Maine, Eastern Division .	1	
	4. Boston, Revere Beach & Lynn 5. New York, New Haven & Hartford,	1	
	Midland Division	11	
	6. New York, New Haven & Hartford,		
	Plymouth Division	5	
	7. New York, New Haven & Hartford,	1.77	
	Providence Division	17	42
-			150
Total	number	•	159

### PUBLIC LANDING-PLACES.

The following public landing-places have been built by the city, and are maintained and controlled by the Bridge Division :

East Boston Public Landing. — Size,  $18 \times 30$ . Built in 1893. Moored at dock of the Atlantic Works. Dock and flats leased at \$250 per year.

Jeffries Point, East Boston. — Size,  $20 \times 50$ . Moored from Fitzpatrick's Wharf; \$350 per year.

### CABLE-HOUSES AND BOXES.

The following is a list of cable-houses and boxes on bridges in charge of this division :

New England Telephone and Telegraph Company: Chelsea [South] bridge, 1 house. Congress-street bridge, 2 houses. Dover-street bridge, 2 houses or boxes. Chelsea [North] bridge, 1 box. Chelsea-street bridge, 1 box. Malden bridge, 4 boxes. Meridian-street bridge, 2 boxes. Neponset bridge, 2 boxes on poles. Warren bridge, 2 boxes. American Telephone and Telegraph Company: Dorchester-avenue bridge, 1 house. Mt. Washington-avenue bridge, 2 boxes. Neponset bridge, 1 box on pole. Summer-street bridge, 1 box. Merchants' Telegraph Company: Congress-street bridge, 2 boxes. Postal Telegraph Cable Company: Congress-street bridge, 2 houses. Malden bridge, 2 boxes. Warren bridge, 2 boxes. Boston Electric Light Company: Congress-street bridge, 2 boxes. Lynn & Boston Railroad Company: Chelsea [North] bridge, 4 boxes. Chelsea [South] bridge, 8 boxes. Boston Elevated Railway Company: Cambridge-street bridge, 1 house. Dover-street bridge, 1 house, 1 box. Dorchester-avenue bridge, 2 houses. Malden bridge, 2 houses. Warren bridge, 2 houses. **Boston Police Department:** Chelsea [South] bridge, 1 box. Malden bridge, 2 boxes. Boston Fire Department: Chelsea [North] bridge, 1 box. Dover-street bridge, 1 house, 1 box. Meridian-street bridge, 2 boxes. Warren bridge, 2 boxes.

LAND AND BUILDINGS IN CHARGE OF BRIDGE DIVISION.

- Broadway Bridge. Draw-house and one storehouse. Land, Broadway and Dorchester avenue, containing 5,516 feet, on which is a brick stable and workshop.
- Charlestown Bridge. Draw-house, electrical power-room, and six storehouses.
- Chelsea [North] Bridge. Draw-house.
- Chelsea [South] Bridge. Draw-house and engine-house.
- Chelsea-street Bridge. Tool-house.
- Congress-street Bridge. Draw-house, storehouse and two shelter houses.
- Cottage-street (foot-bridge). Watchman's house.
- Dover-street Bridge. Draw-house.
- Dorchester-avenue Bridge. Draw-house, tool-shed, two motorhouses, one controller-house.
- L-street Bridge. Draw-house, engine-house.
- Malden Bridge. Draw-house.
- Meridian-street Bridge. Draw-house.
- Mt. Washington-avenue Bridge. Draw-house and tool-house. Neponset Bridge. — Tool-house.
- Summer-street Bridge. Draw-house, controller-house, two shelter houses.
- Warren Bridge. Stable, draw-house containing an engineroom and boiler-room and a tool-house.
- Western-avenue Bridge to Watertown. Tool-house.

LOCATION.	Span.	Height of Opening.	Length.	Length.   Side Walls.   Covering.	Covering.
	Feet.	Feet.	Feet.		
Ashland street and Canterbury, near Calvary cemetery, West Roxbury	1.6	5.5	75	Stone	Wood.
Beach street, near Anawan avenue, at Central Station, West Roxbury	4.0	4.0	50	Stone	Wood.
Cass street, near Spring-street Station, West Roxbury	7.0	3.0	21	Stone	Wood.
Collasset street, Roslindale	14.0	7.5	60	Stone	Wood.
Gardner street, near Cow Island, West Roxbury	5.0	5.5	33	Wood	Wood.
Jamaica street, Jamaica Plain	10.0	4.0	39	Stone	Wood.
Park street, west of Dorchester avenue, Dorchester	5.0	3.7	50	Stone	Wood.
Park street, west of New York, New Haven & Hartford Railroad, Dorchester $\dots$	8.5	5.0	50	Stone	Wood.
Spring street, near Spring-street Station, West Roxbury	2.7	2.7	63	Stone	Wood.
Summer street, near Spring-street Station, West Roxbury	4.0	4.5	40	Stone	Wood.
William street, at Stony brook, West Roxbury	5.0	5.0	50	Wood	Wood.
Woodman street, Jamaica Plain	6.3	4.0	65	Stone	Wood.

List of Small Bridges or Culverts having Wooden Tops, which are Repaired by Bridge Division.--Walls Repaired

STREET DEPARTMENT - BRIDGE DIVISION.

17

### CITY DOCUMENT NO. 50.

	idge.	R	OADWAY.		S11	EWALKS.
NAME OF BRIDGE.	Width of Bridge	Width.	Kind of Roadway.	Number.	Width.	Kind of Walks.
	Ft. In.	Ft. In.			Ft. In.	
Broadway	60 0	40 0	Plank	2	10 0	Coal-tar concrete.
Cambridge street	40 0	32 9	"	1	60	Plank.
Craigie's (temporary).	49 2	40 0	"	1	8 0	"
Charlestown	100 0	$\left. \begin{array}{c} 127 & 9 \\ 122 & 0 \\ 127 & 9 \end{array} \right\}$	"	2	10 0	Asphalt.
Chelsea, North	49 0	40 0	"	1	80	Coal-tar concrete and plank. ~
Chelsea, South	50 3	41 2	"	1	80	Plank.
Chelsea street	30 0	23 2	"	1	60	66
Commercial point {	about 34 0	about 27 0	} "			
Congress street	60 0	44 0	Paved	2	8.0	Coal-tar concrete.
Dover st. (over water)	60 0	40 0	"	2	10 0	Asphalt.
Essex street	31 0	22 8	Plank	1	76	Plank.
Federal street	69 0	49 0	Paved	2	10 0	Asphalt.
Granite	30 2	24 4	Plank	1	50	Plank.
Harvard	694	51 0	"	2	92	Asphalt.
L street	60 0	44 0	Paved	2	80	"
Malden	$\left\{\begin{smallmatrix} 60 & 0 \\ to \\ 67 & 6 \end{smallmatrix}\right\}$	44 0	"	2	80	Composition.
Meridian street	50 0	36 0	"	2	70	Coal-tar concrete.
Mt. Washington ave	61 0	39 6	··	2	10 9	** **
Neponset	<b>3</b> 0 0	23 10	Plank	1	55	Plank.
North Beacon street	31 0	25 2	"	1	50	**
North Harvard street	28 2	26 7	"			
Prison Point	50 0	36 0	{ Plank part } { Paved part }	2	70	Coal-tar concrete.
Summer street	100 0	76 0	Paved entire	2	12 0	Asphalt.
Warren	80 0	60 0	Paved	2	10 0	Coal-tar concrete.
Western avenue to Cambridge	33 2	26 3	Plank	1	60	Plank.
Western avenue to Watertown	33 0	24 2	"	1	8 0	46
Winthrop	$24\ 2$	19 <b>1</b> 0	"	1	37	**
West Boston (tempo- rary)	47 2	37 2	"	1	10 0	"

Table showing Width of Bridges, kind of Roadways, Sidewalks, etc., on Tide=water Bridges, 1905.

NAME OF BRIDGE.	Location.	Number of Openings.		w	idt	h.
Boston & Maine R.R., Eastern Division.	Boston to Charlestown	1	39	feet	57	inches
Boston & Maine R.R., Eastern Division	Over Miller's river	1	35	"	9	
Boston & Maine R.R., Fitchburg Division	Boston to Charlestown	1	36	""	9	e 6
Boston & Maine R.R., Fitchburg Division (for teaming freight)	" " …	1	36	""	0	"
Boston & Maine R.R. (freight), Southern Division	Boston to East Cambridge,	1	40	"	<b>2</b>	"
Boston & Maine R.R. (passen- ger), Southern Division	"…	1	39	"	7	"'
Boston & Maine R.R., Western Division.	Boston to Charlestown	1	39	"	7	"
Boston & Maine R.R., Western Division	Over Miller's river	1	35	"	10	"
Broadway	Over Fort Point channel	1	43	"	0	"
Cambridge street	Brighton to Cambridge	1	36	"	4	"
Charlestown (main channel)	Boston to Charlestown	2	50	**	0	**
Charlestown (north channel)			50	""	0	**
Chelsea (south channel)	Charlestown to Chelsea	1	38	"	9	*1
Chelsea (north channel)		1	60	**	0	"
Chelsea street (East Boston side),	East Boston to Chelsea	2	36	" "	0	"
Chelsea street (Chelsea side)			36	"	0	"
Commercial Point (or Tenean)	Dorchester	1	24	"	$\overline{2}$	"
Congress street (Boston side)	Over Fort Point channel	2	43	"	3	""
Congress st. (South Boston side),	66 66 66 <b></b>		50	"	0	**
Craigie's	Boston to East Cambridge,	1	36	"	0	**
Dover street	Over Fort Point channel	1	37	"	0	**
Essex street	Brighton to Cambridge	1	36	**	0	"
Dorchester avenue	Over Fort Point channel	1	41	"	6	""
Grand Junction R.R	Brighton to Cambridge	1	36	"	0	"
Grand Junction R.R	East Boston to Chelsea	1	49	"	$^{2}$	"
Granite	Dorchester to Milton	1	36	66	0	4.4
Harvard (Boston side)	Boston to Cambridge	2	36	"	б	"
Harvard (Cambridge side)			36	"	10	**
L street	Over Reserved channel, South Boston	1	39	"	9	"
Malden	Charlestown to Everett	1	50	"	0	66

# Table showing the Widths of Openings for Vessels in all Bridges Provided with Draws in the City of Boston, 1905.

### Table showing Width of Openings, etc. - Concluded.

NAME OF BRIDGE.	Location.	Number of Openings.		W	/idt	h.
Meridian st. (East Boston side)	East Boston to Chelsea	2	59	fee	t 2	inches
Meridian street (Chelsea side)	۰۰ ۰۰۰ · · · ·		59	"	0	"
Mt. Washington avenue (Boston side)	Over Fort Point channel	2	42		<b>2</b>	"
Mt. Washington avenue (South Boston side)			52	"	0	**
Neponset	Dorchester to Quincy	2	36	"	0	"
New York, New Haven & Hart- ford R.R	Over South Bay	1	28	"	4	"
New York, New Haven & Hart- ford R.R., Y-connection	Over Fort Point channel	1	41	"	10	"
New York, New Haven & Hart- ford R.R	" " " …		41	"	5	"
New York, New Haven & Hart- ford R.R	Dorchester to Quincy	1	35	"	10	"
North Beacon street	Brighton to Watertown	1	30	"	0	**
North Harvard street	Brighton to Cambridge	1	<b>3</b> 6	"	0	" "
Prison Point	Charlestown to Cambridge,	1	36	"	0	"
Summer street	Over Fort Point channel	1	50	"	0	"
Warren	Boston to Charlestown	1	36	"	0	"
West Boston (temporary)	Boston to Cambridge	1	36	"	0	"
Western avenue	Brighton to Cambridge	1	36	"	0	"
Western avenue	Brighton to Watertown	1	35	"	10	£ 6

# DRAWTENDERS' REPORTS. \*

# Giving Number of Vessels Passing through Drawbridges Controlled by the City of Boston from February 1, 1901, to January 31, 1906, Inclusive.

$ \begin{array}{c} \textbf{1} \textbf{000} \textbf{1} \\ \textbf{1} \textbf{1} \textbf{1} \textbf{1} \textbf{1} \textbf{2} \textbf{1} \textbf{1} \textbf{2} \textbf{2} \textbf{1} \textbf{1} \textbf{2} \textbf{2} \textbf{2} \textbf{1} \textbf{1} \textbf{2} \textbf{2} \textbf{2} \textbf{2} \textbf{2} \textbf{2} \textbf{2} 2$		STE/	STEAMERS.	°.	x	VITIV	SAILING VESSELS	SELS.				TUGS.				ALL	ALL OTHERS	RS,		TOTA	T. NUM	BER O	TOTAL NUMBER OF VESSELS	ELS.	
$ \begin{array}{c} 4 \ \ 6 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	NAME OF BRIDGE.	1902.			·1061	.2061	.8061	*†061	·9061	. 106 1	.2061	.£061	.1904.	.606 I	.1001	.2061	.5061	.4061	· 906 I	.1061	1902.	.8061	.1904.	.6061	Total, 190 1, 1901, t 3, 1901, t
	Broadwary Charlestown Charlestown Charlestown Chelsea (South) Chelsea street Congress street Congress street Congress street Congress street Dover street Freet Maldon Mardian street Maldon Nerdian street Maren Merdian street Maren Merdian street Merdian street	100 100 100 100 100 100 100 100 100 100		T := 20 00 =		1,586 782 782 782 1,566 1,559 332 332 332 332 332 332 332 332 332 1,709 1,709 1,979 1,979 1,979	1,203 788 517 517 517 517 517 231 1,208 1,	$\begin{array}{c} 1,163\\ 730\\ 680\\ 680\\ 680\\ 1,316\\ 1,181\\ 1,161\\ 1,161\\ 1,161\\ 1,181\\ 1,181\\ 1,205\\ 1,205\\ 1,205\\ 1,205\\ 1,205\\ 1,319\\ 1,3$		44,558 37,557 6,8757 4,013 4,013 4,013 120 120 120 120 120 120 120 120 120 120	$\begin{array}{c} 5,156\\ 5,156\\ 7,7607\\ 7,7607\\ 7,7607\\ 1099\\ 7,789\\ 1099\\ 7,050\\ 6,873\\ 7,050\\ 6,873\\ 154\\ 154\\ 154\\ 154\\ 154\\ 154\\ 85\\ 89\\ 89\\ 89\\ 89\\ 89\\ 89\\ 89\\ 89\\ 89\\ 89$	112 234 4, 359 8, 359 8, 359 8, 359 8, 359 8, 359 8, 4, 359 8, 112 8, 11	3,871 3,871 7,191 4,484 4,484 95 6,106 6,106 6,106 6,106 8,231 2,388 2,231 2,388 3,208 3,2	4,238,9746 3,928,9746 6,082 6,082 6,082 3,256 1,668 7,759 7,759 5,772 5,	2,140 2,578 3,8358 1,652 1,652 1,652 1,652 1,652 2,826 2,826 2,822 1,628 1,628 2,822 2,463 2,463 2,463	2,409 3,8267 3,8267 3,8267 2,086 1,968 1,9	$\begin{array}{c} \begin{array}{c} 2,235\\ 2,235\\ 2,502\\ 2,502\\ 2,502\\ 2,502\\ 2,583\\ 2,58$	1,782 2,917	2,140 2,140,	$\begin{array}{c} 8,421\\ 5,421\\ 5,481\\ 5,481\\ 5,481\\ 7,335\\ 7,235\\ 3,750\\ 3,750\\ 3,750\\ 3,750\\ 1,615\\ 1,615\\ 1,615\\ 1,615\\ 1,615\\ 1,335\\ 2,12\\ 7,335\\ 2,20\\ 3,122\\ 2,20\\ 3,20\\ 2,20\\ 3,20\\ 2,20\\ 3,20\\ 2,20\\ 3,20\\ 2,20\\ 3,20\\ 2,20\\ 3,20\\ 2,20\\ 3,20\\ 2,20\\ 3,20\\ 2,20\\ 3,20\\ 2,20\\ 3,20\\ 2,20\\ $	9,157 7,079 12,817 6,631 6,631 7,919 9,205 5,838 5,838 5,838 11,765 11,765 11,765 11,765 11,765 11,765 11,765 11,765 11,765 11,765 11,765 11,765 11,765 11,765 11,776 11,779 10,405 11,776 11,779 10,405 11,776 11,776 10,405 10,4			$\begin{array}{c} & 7,320\\ & 7,320\\ & 7,320\\ & 7,320\\ & 7,5642\\ & 7$	235, 235, 235, 235, 2461, 256, 266, 256, 266, 266, 266, 266, 266

\* West Boston, Cambridge street, Essex street, North Harvard street, Western avenue to Cambridge, Prison Point, Craigie's and Harvard bridges are not included in this table, being in the care of Commissioners representing the two cities (Boston and Cambridge) connected by these bridges.

### CITY DOCUMENT NO. 40.

 $\overline{22}$ 

Giving Number of Vessels passing through Drawbridges controlled by the City of Boston from February 1,

DRAWTENDERS' REPORT.\*

 $241 \\ 5,573 \\ 3,721 \\ 125 \\$ Total Number of Openings. 2,6481,7575,1045,1043393393394,2882,9422,9422,9422,9422,9422,9422,9422,9422,9422,9471,4471,4471,429 943 366 166  $^{+706}_{-221}$ Total Number of Cargoes. 490 ,697 ,830 394 552 7,13812,671 10,62273073010,8422,69212,7409,1447,5566,5283927,450Total. 7.320 TOTAL NUMBER VESSELS. By Night. 935 935 878 695 183 183 183 288 027 147 915 2:29 6,5295,7813812,463 (0,825 8,099 5,5396,385 5,650 1,293 9,927 547 By Day. Total.  $2,370 \\ 1,847 \\ 1,458 \\ 1,45$ 9273,6742,0162.673,798 ,525 .092 394 76 ALL OTHERS. By Night. 242 4417 22437 118 2240 175 2240 590 278 278 394 By Day. 1,556 1,906 3,108 3,855 2,094 2,2798573,0841,7388 1905, to January 31, 1906, Inclusive. Total. 4,239 8,074 8,074 6,082 6,927 8,481 264 264 264 569 1,662 8,683 5,759 TUGS. By Night.  $\begin{array}{c}
 538 \\
 538 \\
 908 \\
 421 \\
 421 \\
 \end{array}$  $\frac{65}{22}$ L52 292 33  $_{\mathrm{Day}}^{\mathrm{By}}$ . 3,7013,1707,1665,6616,0983,8093,4064.086 1,5107,3915,119260 257Total. 342 1,279 767 791 438 457,223 31 101 SAILING VESSELS. By Night.  $^{26}_{19}$  $\frac{125}{26}$ 573 33 34 316  $_{\rm Day}^{\rm By}$  $\begin{array}{c}
 125 \\
 583 \\
 755 \\
 403 \\
 403
 \end{array}$  $\begin{array}{c}
285\\
089\\
089\\
174\\
174\\
94
\end{array}$ Total. ¢ ဆတ္ထ **C**1 41 STEAMERS. By Night. ۲- s 67 264 8 77  $_{\mathrm{Day.}}^{\mathrm{By}}$ \$ 40 33.2 Broadway ..... Chelsea street..... Dover street..... Granite..... L street..... Malden..... Mt. Washington avenue North Beacon street..... Neponset..... \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Congress street ..... Meridian street..... Ohelsea (South).... Dorchester avenue ..... BRIDGE. Chelsea (North) Charlestown

\* West Boston, Cambridge street, Essex street, North Harvard street, Western avenue to Cambridge, Prison point, Craigie's and Harvard bridges are not included in this table, being in the care of Commissioners representing the two cities (Boston and Cambridge) connected by these bridges.

51,308

20.070

113.699

14.482

99,216

31,939  $2,359 \\ 2,140 \\ 70$ 

4,270

27,669

69,705

8,738

60,967

11,443

1,411

10,032

612

63

549

......................

Totals.

1,702 1,340 35

6,458190

5,125186

10,818

,283 ,333 ,333

388 9,535

8

ŝ 273455

94 83

270 3,572

2,086L,685

3,915

1285

 $^{259}_{6,089}$  $^{2,867}_{2,867}$  $^{118}_{118}$ 

38 742 742

173

 $35 \\ 1,284 \\ 573$ 

18

Ħ 4

92

Warren

Western avenue (to Watertown)

.....

Summer street

407

### APPENDIX B.

### REPORT OF THE DEPUTY SUPERINTENDENT OF THE FERRY DIVISION.

NORTH FERRY, EAST BOSTON, February 1, 1906.

### MR. CHARLES LOGUE,

Acting Superintendent of Streets:

DEAR SIR, — I respectfully submit report of income, expenses and operation of the Ferry Division, for the financial year ending January 31, 1906.

During the past year, owing to a terrible calamity in New York harbor, the United States Government promulgated new and stringent rules governing all vessels carrying passengers. To meet these demands a special appropriation of \$12,000 was made by the City Council to equip our boats.

Every ferry boat was hauled out on the railway, and new sea cocks were put in and the whole hull gone over. New life boats and rafts, double the number of life preservers, fire extinguishers and fire pumps were added to conform with the new rules, so now these boats are in first-class condition so far as the saving of life is concerned.

A special appropriation of \$25,000 to build a new coalpocket at the North Ferry was also given us. Plans were made and the contract was awarded to build same. Work would have commenced on this pocket by this time except that there was danger of a coal strike and work was deferred until later. It is confidently asserted that work will start on this by May 1. This improvement has been needed here for a number of years, as the old shed was dilapidated and antiquated.

Your attention is called to the condition of the piers on Boston side of both ferries. These piers are old and require constant repairs. In the interest of economy they should be entirely rebuilt, as in my judgment it is a waste of money to keep repairing them. With these exceptions the rest of the plant (buildings, drops and boats) is in good condition.

The property in charge of this division is as follows:

South Ferry, East Boston Side. — Located at the termination of Lewis street, and covers an area of 58,725 square feet of land and water. On these premises are one headhouse, with canopies; one workshop for carpenters, machinists and blacksmith, both of the above buildings being at present time in course of construction; one storehouse and temporary waiting-room, one new, modern coal-pocket, three new piers which form the two slips, two drops and tanks, one new wharf and dock, where boats are laid when not in use or while undergoing repairs.

South Ferry, Boston Side. — Located at the termination of Eastern avenue, and covers an area of 38,135 square feet of land and water, on which are one head-house with canopies, one gate-room, three piers which form the two slips, and two drops and tanks.

North Ferry, Boston Side. — Located at the termination of Battery street, and covers an area of 45,000 square feet of land and water, on which are one head-house with canopies, one gate-room, three piers which form the two slips, and two drops and tanks.

North Ferry, East Boston Side. — Located at the termination of Border street, and covers an area of 62,138 square feet of land and water, on which are one head-house with canopies, one boiler and oil-room, one stable, one coal-shed, three piers, which form the two slips, and two drops and tanks.

The following steam ferry-boats are in commission :

Name.	When built.	Kind.	Length.
Revere	1875	Side-wheel.	148 ft.
D. D. Kelly	1879	"	148 ''
Hugh O'Brien	1883	"	163 ''
General Hancock	1887	6.6	148 ''
Noddle Island	1899	Propeller.	164 '' 3 in.
Governor Russell	1900	<b>.</b> .	$164 {}^{\prime\prime}3{}^{\prime\prime}$
General Sumner	1900	"	$164 {}^{\prime\prime}3{}^{\prime\prime}$

Respectfully submitted,

JOSEPH F. LOW, Acting Deputy Superintendent.

### STREET DEPARTMENT — FERRY DIVISION. 25

### STREET DEPARTMENT, FERRY DIVISION.

### CONSOLIDATED FINANCIAL STATEMENT FOR THE · YEAR 1905-06.

1. Receipts.	
Total cash receipts during the year Cash in hands of tollmen at beginning of year	\$108,478 09 550 00
Total	\$109,028 09 108,478 09
Balance of cash on hand at end of the year .	\$550 00

### 2. Appropriations and Expenditures.

Balance unexpended from previous years (h	oans)		\$15	60
Received from City Treasurer, special loan	•		12,000	00
	•		25,000	00
Received from City Treasurer by transfer	•	•	18,995	90
Received from City Treasurer, annual app	propri	a-		
tion for this division for $1905-06$ .	•	•	$243,\!000$	00
			#200.011	
* Total appropriations of all kinds	•		\$299,011	
* Total expenditures of all kinds .	•	•	$273,\!995$	90
Balance unexpended (loans)	•	•	\$25,015	60
				_

### 3. Result of Operations for the Year.

Receipts for the year (net income) Expenditure for maintenance . Expenditure for maintenance by	\$261,995		\$108,478 09
special loan	11,719	37	
Interest on ferry debts	16,920	00	
Depreciation on boats	14,215		
Depreciation on tools and machin-			
ery	759	50	
Outgo for year	\$305,610	26	
Deduct increase in stock of sup-			
plies	5,544	70	
Net outgo for the year		•	300,065 56
Net loss for the year	• •		\$191,587 47
			the same the same time to be same

\* Details of appropriations and expenditures given in Table 5.

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End of fiscal year January 31, 1906.

\$25,015 60 3,754,090 72 \$3,779,106 32 These expenditures were practically subsidies to the East Boston Ferry Company by the city before the ferries were purchased by the latter, and should properly be added to the \$315,815 68 Capital of the city invested in the ferries.....  $\frac{12}{2}$ 6,145,191 \$9.899.281 LIABILITIES. kinds for 48 years, including interest on debts..... Less total receipts ..... Appropriations account.... Viz.: Total expenditures CONTINGENT LIABILITIES: CURRENT LIABILITIES: FIXED LIABILITIES: leficiency or loss. None. \$550 0010,236 93\$\$42,747 33 315,815 68 00808 \$10,786 93 50 2,620,543 31 \$3,779,106 32 25,015222,709 577,4006.835\$842,747 <sup>‡</sup> Total cost to date, per ferry books.......\$6418,070 58 Less boats sold, depreciated or destroyed...... 581,145 79 \$777,029 62 \$236,924 79 Inventory of Supplies, etc., on hand..... Total Available Assets..... Real Estate and buildings\*..... Total Tangible Assets..... of the ferries 48 years to date..... Ferryboats ‡ ...... Avenues, etc., East Boston §..... Engines, boilers, machinery, tools, and heating Deficiency, or loss by operation and maintenance City Treasury, balance of appropriations. ASSETS. Assessors' figures for 1901. CONTINGENT ASSETS: AVAILABLE ASSETS: Cash on hand.... FIXED ASSETS:

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### CITY DOCUMENT NO. 40.

RECEITTS.	1901-02.	1902-03.	1903-04.	1904-05.	1905-06.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,571 60 1,571 00 2,338 99 334 00 27,137 50 13,291 47	125,457 18 1,470 70 2,165 31 547 50 27,168 50 13,308 09	1,3,626 23 994 70 994 70 1,734 32 1,734 32 1,7134 32 1,714 32 1,714 32 1,714 70 1,2,857 50 1,367 50 1,367 50	\$128,902 89 1,073 10 1,610 29 1,665 00 27,322 50 13,567 37 13,567 37 13,567 37	\$64,622 37 606 10 1,506 30 1,506 30 218 50 26,091 50 13,514 68 13,514 68 13,514 68 13,514 68 13,514 68
Total from rates From rents (Sargent's Wharf and pedlers' privileges) " old materials sold	\$164,788 59 2,540 00 372 50 372 50	\$170,117 28 2,477 50 46 45 551 50	\$176,047 81 656 50 72 00 732 00	\$173,980 15 1,324 50 166 25 680 30	\$107,073 95 1,217 67 111 47 75 00
Total ordinary receipts	\$167,880 SG	\$173,192 73	\$177,508 31	\$176,151 20	\$108,478 09
Total receipts Less rejected money (counterfeit, etc.)	\$167,880 86 1 24	\$173,192 73 2 85	\$177,508 31 1 10	\$176,151 20 2 25	\$108,478 09
Total receipts turned over to city	\$167,879 62	\$173,189 88	*\$177,507 21	\$176,148 95	\$108,478 09
APPROPRIATIONS.					
Regular appropriations	\$250,600 00	\$220,000 00	\$220,000 00	\$243,600 00	243,000 00
th Ferry, East Boston		100,000 90			$\begin{array}{c} 25,000 & 00\\ 12,000 & 00\end{array}$
Total appropriations,	\$250,600 00	\$320,000 00	\$220,000 00	\$243,600 00	\$280,000 00

5. Comparison of Receipts, Appropriations, and Expenditures for Five Years.

\*Less \$25 retained for addition to tollmen's working capital.

STREET DEPARTMENT - FERRY DIVISION.

27

	in tendinon		-ee-		
RECEIFTS.	1901-02.	1902-03.	1903-04.	1904-05.	1905-06.
EXPENDITURES (ORDINARY).	-				
Omee: Superintendent's salary	\$3.000 00	\$3.000 00		\$3.000 00	\$3.000 00
Clerks and cashier.	4,200 00		4,189 00	4,087 50	4,000 00
Stationery	287 70	348 59		396 89	256 45
Printing	804 80 226 81	1,342 84 965 00	918 58 917 20	868 49 329 59	734 42 974 96
* Keeping horse and repairing vehicle	315 47	947 90	675 93	662 56	620 60
Advertising, etc.		102 07	129 22	10 50	22 75
Examination of accounts, etc.		469 00	•	•	
Premiums, surety companies	114 50	115 00	107 50	97 50	107 50
Total office expenditures	\$9,129,08	\$10.761.58	\$9.634.58	\$9.506.96	\$9.015 98
Ferry-boats and landings:		00 TO 101 A			
Employees	151,20046	130,562 $51$	149,850 77	164,66642	161,965 $81$
Fuel	40,249 21	47,301 50	61,042 76	35,701 13	47,788 67
Teaming, wheeling coal, etc	4,237 50	5,143 00	5,552 60	5,648 $45$	0,572 80
Uil, waste and supplies	5,761 51	6,112 60 9 709 99	5,'(44 50	8,440 14	0,912 21
TOUS, IT ON AUD HALLWARD	957 56	2,102 22 716 05	1.047 58	967.94	867.96
Electric light	7,160 98	6,749 35	7,611 62	7,176 04	5,593 10
Towing by horses.		519 36		418 25	
" electric power	600 009	600 00	600 009	354 50	207 40
Repairs of boats.	16,331 98	6,164 08	6,949 43	15,299 12	11,022 02
" " buildings and drops	6,108 99	4,850 $62$	5,127 00	8,806 41	11,576 12
Furnishings, electric, etc	636 76 1	639 97	670 88	843 59 1	JA ALC

5.--Comparison of Receipts, etc.-Concluded.

 $\mathbf{28}$ 

CITY DOCUMENT NO. 40.

Damages Rent Sargent's wharf	$\begin{array}{c} 20 & 00 \\ 4,000 & 00 \\ 753 & 75 \end{array}$	23 45 4,000 00 842 00	149 88 553 63	17         00           175         25	833 80
Total from regular appropriations	\$248,754 06	\$227,688 29	\$254,535 23	\$258,126 20	\$261,995 90
EXPENDITURES FROM SPECIAL APPROPRIATIONS.					
New ferry landing † 41,988 16 Equipment of ferry-boats	† 41,988 16	:	10,639         71           58,650         99           41,333         41	41,333 41	41,333 41
Total expenditures, regular and special Transfers { to treasury	\$290,742 22 4,959 87	\$296,978 99	\$295,868 64 \$258,126 20	\$258,126 20	\$296,978         99         \$295,868         64         \$258,126         20         \$273,715         27           200,978         99         \$295,868         64         \$258,126         20         \$200,63
Total expenditures, including transfers	\$295,702 09	\$295,702 09 \$296,978 99 \$295,868 64	\$295,868 64	\$258,126 20	\$273,995 90
Balances in treasury unexpended: From ordinary appropriations	\$10,639 71	\$41,349 01	\$15 60	\$15 60	\$25,015 60
# Twolwides months and anales					

\* Includes repair coal carts. † Portion of \$500,000 loan authorized, of which \$200,000 was transferred to Sewer Division.

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### CITY DOCUMENT NO. 40.

	January 31, 1902.	January 31, 1903.	January 31, 1904.	January 31, 1905.	January 31, 1906.
Assets.					
Cash in hands of tollmen,	\$575 00	\$575 00	\$600 00	\$550 00	\$550 00
Accounts receivable		62 50		12 50	
Fuel and supplies on hand	10,371 78	7,153 65	9,793 00	4,692 23	10,236 93
City Treasurer (balance of appropriations)	10,639 71	41,349 01	15 60	15 60	25,015 60
Real estate and buildings (Assessors' valuations)	546,600 00	577,400,00	577,400 00	577,400 00	577,400 00
Ferry-boats (less depre- ciation)	285,250 85	268,135 80	252,047 65	236,924 79	222,709 30
Machinery and tools	6,000 00	300 00	7,595 00	7,595-00	6,835 50
Total tangible assets	\$859,437 34	\$894,975 96	\$847,451 25	\$827,190 12	\$842,747 33
Cost of avenues, etc., East Boston (previous to 1870)†	315,815 68	315,815 68	315,815 68	315,815 68	315,815 68
Deficiency of assets(loss)	2,034,374 44	2,168,337 23	2,309,834 96	2,428,943 34	2,620,543 31
Totals	\$3,209,627 46	\$3,379,128 87	\$3,473,101 89	\$3,571,949 14	\$3,779,106 32
Liabilities.					
Capital invested by City of Boston to date	\$3,198,987 75	\$3,337,779 86	\$3,473,086 29	\$3,571,933 54	\$3,754,090 72
Appropriations account (credit balances)	10,639 71	41,349 01	15 60	15 60	25,015 60
Total liabilities	\$3,209,627 46	\$3,379,128 87	\$3,473,101 89	\$3,571,949 14	\$3,779,106 33
		Department of the last of the			

### Comparative Balance Sheets at the Close of each Year for Five 6. Years.

Details of Capital Invested by the City of Boston.

				_					
Total expenditures to date, per ferry books	\$8,355,982 2	24	\$8,666,381	23	\$8,977,252	87	\$9 <b>,</b> 252,299	07	\$9,542,934 3
Interest on debts for the year (per City Audi- tor)	13,420 (	00	15,003	00	16,920	00	16,920	00	16,920 0
Interest previous years, etc. (net debits per Au- ditor)	279,148 8	85	° 279,148	85	279,148	85	279,148	85	279,148 8
Total expenditures	*\$8,648,551 (	09	*\$8,960,533	08	*\$9,273,321	72	*\$9,548,367	92	*\$9,839,003 1
Deduct total receipts paid to Collector	*5,449,563 (	34	*5,622,753	22	*5,800,235	43	*5,976,434	38	*6,084,912 4
Excess of expenditure, viz., capital invested by city	\$3,198,987	75	\$3,337,779	86	\$3,473,086	29	\$3,571,933	54	\$3,754,090 7

\* Auditor's figures for total expenditures and receipts are 60,278.56 more than above, the difference (capital invested) being the same. \$3,542.50 for additional interest, and \$33 counted twice on total of ferry books, have also been included in these figures.  $\dagger$  See footnote, \$, under Table 4.

### STREET DEPARTMENT - FERRY DIVISION. 31

# 7. Total Expenditures upon Ferries since 1858-59.

Expenditure for avenues, paving, interest, etc.,		
previous to purchase of the ferries by the city, †	\$444,101	30
Purchase of ferries, April, 1870	276,375	
* Expenditures for ferry-boats since April, 1870,	618,070	58
* Expenditures for new buildings, piers, drops,		
etc	530,523	64
* Expenditures for tools and fixtures	14,752	46
Expenditures for land from Lincoln's wharf in		
1887	5,562	52
Expenditures for land from Battery wharf in		
1893	10,000	00
	\$1,899,385	50
	810,707	47
* Expenditures for fuel	$1,\!289,\!194$	82
* Expenditures for salaries and wages	4,367,994	87
Expenditures for all other purposes	1,531,999	09
	\$9,899,281	75

TOTAL RECEIPTS FROM FERRIES SINCE 1858-59.

Receipts from rents, etc., previous to purchase

of ferries	\$29,588	5.6
	$_{@29,000}$	90
* Receipts from ferry tolls since purchase of		
ferries.	5,863,147	31
* Receipts from rents since purchase of ferries .	60,969	13
* Receipts from sales of ferry-boats	147,331	
* Receipts from all other sources, per ferry	,	
books	14,152	00
Receipts from all other sources, additional per		
Auditor	30,690	00
		00
	\$6,145,878	91
Tean universal memory destructed 0104 10	ψ0,140,010	<b>1</b> ڪ
Less rejected money destroyed \$104 18		
Less amount counted twice 33 00		
Less amount in hands of tollmen . 550 00		
	687	18
Total per City Auditor's figures	\$6,145,191	03

\* According to books of the Ferry Division. † See footnote, §, under Table 4.

REGULAR ANNUAL (ORDINARY) AND SPECIAL APPROPRIATIONS (EXTRAORDINARY) OF THE FERRY DIVISION OF THE STREET DEPARTMENT FOR THE YEAR ENDING JANUARY 31, 1905.

Appropriation for the year ending January 31, 1906	\$243,000 00
Received by transfer	
Total amount	\$261,995 90
Amount of expenditures	\$261,995 90
SPECIAL APPROPRIATIONS.	
Appropriation authorized and issued May 27, 1902, for ferry improvements Amount expended from May 27, 1902, to February 1, 1903 . \$58,650 99 Amount expended from Feb- ruary 1, 1903, to February 1, 1904 41,333,41 Amount expended from Feb- ruary 1, 1904, to February 1, 1905 Amount expended from Feb- ruary 1, 1905, to February 1,	\$100,000 00
1906	$\frac{99,984}{\$15} \frac{40}{60}$
Appropriation authorized and issued July, 1905, for equipping ferry boats with life saving appliances	\$12,000 00 \$12,000 00
Appropriation authorized and issued July, 1905, Amount expended during year ending January 31, 1906 Unexpended balance of appropriation January 31, 1906	\$25,000  00 - 25,000  00

STATEMENT SHOWING RECEIPTS AT EACH FERRY.

North	Ferry.
-------	--------

From Tollman.	Foot Passengers.	Team Tickets.		Total.	
No. 2	\$6,532 60	\$3,021	00	\$9,553	60
" 3	6,453 79	2,980	00	9,433	7(
" 5	6,607 88	3,063	50	9,671	38
" 6	6,532 90	2,982	00	9,514	90
" 9	6,435 71	2,901	50	9,337	21
" 10	2,387 15	804	00	3,191	1
	\$34,949 94	\$15,752	00	\$50,701	94
From tollmen			•	\$50,701 \$	<b>9</b> 4
From gatemen :					
For 76,119 foot passen	gers. at 1 cent	\$761	19		
For cash fares for team	0 / .	6.687	_		

7,448 24

Total at North Ferry . . . . . \$58,150 18

South Ferry.

From Tollman.	Foot Passengers.	Team Tickets.	Total.
No. 1	\$7,097 11	\$2,435 00	\$9,532 11
·· 4	6,606 78	2,610 50	9,217 28
" 7	7,119 01	2,456 00	9,575 01
" 8	6,573 96	2,616 50	9,190 46
" 11	1,016 40	110 00	1,126 40
" 12	$1,259\ 17$	111 50	1,370 67
	\$29,672 43	\$10,339 50	\$40,011 98

From	n tollmen				• •				\$40,011	93
From	n gatemen :								, i	
Fo	r 80,511 fo	ot pass	engers	s, at i	l cent	, \$	805	11		
Fo	r cash fare	s for tea	uns .			. 6,	827	63		
									7,632	74
	Total at So	uth Fer	ry .		•		•	•	\$47,644	67
Nort	h and South	- Ferrie	s, as a	above	е.				\$105,794	85
Tick	ets paid for	at offic	e of C	ity C	Collect	or	·	•	453	50
	Carried for	ward.							\$106,248	35

# CITY DOCUMENT No. 40.

Brought forward		$     \$106,248 \ 35 \\     824 \ 60 \\     1 \ 00 $
Total ferriage receipts		\$107,07395 1,21767 18647
Total cash receipts, as above	•	\$108,478 09

STATEMENT SHOWING THE DIFFERENCE OF TRAVEL ON THE FERRIES FROM FEBRUARY 1, 1905, TO FEBRUARY 1, 1906.

Foot passengers at 1 cent each		North Ferry. 3,571,113	South Ferry. 3,047,754
Foot passengers by ticket .	•	$59,\!679$	29,606
Foot passengers free	•	30,931	2,745
Total foot passengers .	•	3,661,723	3,080,105
One-horse teams and pleasure	car-		
riages	•	$361,\!322$	265, 196
Two-horse teams	•	130, 177	95,184
Three-horse teams	•	5,006	4,163
Four-horse teams		5,493	6,185
Two-horse pleasure carriages	and		
hacks		$14,\!596$	7,132
Hand-carts, etc		3,530	988
Drag-wheels		40	48
Free teams		5,892	304

TOTAL TRAVEL ON BOTH FERRIES FROM FEBRUARY 1, 1901, TO FEBRUARY 1, 1906.

	From Feb. 1, 1901, to Feb. 1, 1902.	From Feb. 1, 1902, to Feb. 1, 1903.	From Feb. 1, 1903, to Feb. 1, 1904.	From Feb. 1, 1904, to Feb. 1, 1905.	From Feb. 1, 1905, to Feb. 1, 1906.
One-horse teams	645,283	641,796	621,329	650,687	626,518
Two-horse teams	232,557	249,714	252,048	254,726	225,361
Three-horse teams	9,215	7,486	8,244	9,605	9,169
Four-horse teams	13,804	13,180	12,995	12,931	11,678
Two-horse carriages and hacks,	16,365	19,115	19,594	19,968	21,728
Two-cent. tolls for handcarts, etc	13,582	6,720	6,847	4,560	4,518
Drag-wheels, etc	122	86	11	32	88
Foot passengers	12,395,649	12,923,734	13,213,559	13,200,033	6,708,152

# STREET DEPARTMENT - FERRY DIVISION. 35

	Balance Out- standing Jan. 31, 1905.	Sold during the Year.	Delivered on Requisitions.	Total.	Received and Destroyed.	Balance Out- standing Jan. 31, 1906.
Foot passes	205,747	60,610	47,300	313,657	89,285	224,372
One-horse team tickets	78,499	339,424	4,208	422,131	338,261	83,870
Two-horse team tickets	47,912	206,080	2,176	256,168	203,951	52,217
Three-horse team tickets	5,126	8,658		13,784	8,230	5,554
Four-horse team tickets	6,499	11,140		17,639	10,588	7,051
One-horse carriage tickets	21,232	20,980	200	42,412	20,680	21,732
Two-horse carriage tickets	2,308	9,260		11,568	8,999	2,569

TICKET STATEMENT FOR THE YEAR 1905-06.

### CITY DOCUMENT NO. 40.

### APPENDIX C.

# REPORT OF THE DEPUTY SUPERINTENDENT OF THE PAVING DIVISION.

CITY HALL, BOSTON, February 1, 1906.

MR. CHARLES LOGUE, Acting Superintendent of Streets:

DEAR SIR, — I herewith submit the annual report of the expenditures and income of the Paving Division of the Street Department for the financial year ending January 31, 1906, showing the nature of the work, the number and variety of permits issued, and the details of expenditures involved in paving, macadamizing, regulating and constructing various streets.

Respectfully yours,

J. H. SULLIVAN, Acting Deputy Superintendent.

The Paving Division has charge of the following work:

The maintenance and rebuilding of street surfaces and sidewalks.

The placing of signs.

The numbering of buildings.

The issuing of permits to open or occupy the streets or for such other purposes as may be required under the ordinances.

The removal of snow and ice from the gutters, streets and plank sidewalks.

The cleaning of streets in the suburban districts not covered by the Street Cleaning Division.

The division is in charge of a deputy superintendent, with a clerical force under the direction of a chief clerk, and an engineering force under the supervision of a chief engineer.

The repairs upon asphalt pavement have been supervised, located and plotted upon plans prepared for that purpose, and tables are annexed showing the amount of repairs and the cost in detail on all asphalt streets upon which the maintenance guarantee has expired.

The agreement which was entered into with the Barber Asphalt Paving Company in 1904, whereby the asphalt repairs on streets, on which the maintenance guarantee has expired, are guaranteed for a period of three (3) years, was continued during the year.

Geneva avenue, from Westwood street, across Vaughan avenue, was widened and the rough grading done to meet the conditions caused by the new bridge of the New England Division of the New York, New Haven & Hartford Railroad. This work was done by John E. Gill under contract dated May 16, 1905. Work was commenced May 22, and completed June 17, 1905.

Under the provisions of chapter 323 of the Acts of 1891, and acts in amendment thereof or in addition thereto, there were two (2) streets and one (1) boulevard completed during the year.

Belgrade avenue, from South street to Anawan avenue; the regulating and macadam surface have been done this season and the street is now completed.

*Columbia road*, from the bridge over Old Colony avenue to Covington street, was finished, thus completing the boulevard from Franklin Park to Marine Park, a distance of nearly four miles.

Hyde Park avenue, from Walk Hill street to about 287 feet north of Ashland street; the regulating and macadam surfacing were done this year, thus completing the work started in 1904.

During the year a number of streets in the residential sections of the city have been surfaced with bitulithic pavement. This pavement was introduced three years ago, and is a very satisfactory pavement, particularly on grades, where, on account of the peculiarity of its composition, horses are enabled to travel upon it in safety.

In the City Proper the following streets were laid with this pavement:

Albany street, from northerly side of Stoughton street, across East Concord street.

Albany street, from Massachusetts avenue about 225 feet northerly.

Allen street, from Chambers street to Charles street.

Clarendon street, from Beacon street to Boylston street.

*Harrison avenue*, from Northampton street, across East Spring field street.

McLean street, from Chambers street to Blossom street.

Tyler street, from Beach street to Harvard street, and from Oak street to Curve street.

### Roxbury.

Boylston street, from Massachusetts avenue to the Parkway. St. Alphonsus street, from Tremont street, across Smith street.

#### South Boston.

*Dorchester street*, from the northerly side of Broadway to Eighth street.

Thomas park.

The department force has been employed during the year in repairing and resurfacing streets, and about 38 miles, or 552,146 square yards, of streets have been resurfaced.

A vast amount of work remains to be done not only on macadam streets, but also upon paved streets, in order that they may be put in proper condition. The amount of paving and regulating done by the department irrespective of the pitch and pebble work is as follows:

Edgestones set and reset				68,714	linear feet.	
Block paving on gravel .		•		$69,\!495$	square yar	$\mathrm{ds.}$
Flagging on gravel .	•	•	•	265		
Brick sidewalks laid .	•			28,715		
Artificial stone sidewalk laid	•	•		12,981		
Artificial stone curbing laid		•			linear feet.	
Coal-tar concrete sidewalk la	id	•	•	$^{3,551}$	square yar	ds.

#### Paving.

Edgestones set	27,355	linear	feet.
Concrete base laid	19,417	square	yards.
Granite block paving laid on a concrete			
base, with pitch and pebble joints .	28,864	"	"
Granite flagging laid on a concrete base,			
with pitch and pebble joints	2,084	"	"
Granite block paving laid on a gravel base,			
with gravel joints	2,869	"	"
Granite flagging laid on a gravel base, with			
gravel joints	302	"	"
Bitulithic pavement laid	33,644	"	"
Trinidad asphalt laid on a concrete base,	7,587	• •	"
Brick sidewalks laid	24,202	"	"
Artificial stone sidewalks laid	759	square	feet.

Albany street, from Beach street to Kneeland street, was paved under contract by John E. Burns, with large granite blocks on a 6-inch American Portland cement concrete base, with pitch and pebble joints. The regulating was done by the contractor; the exceptation for the roadway by the city. The former surface was granite blocks on a gravel base with gravel joints.

Atlantic avenue, westerly side, between Broad street and Commercial street. The roadway between Broad street and Milk street has been widened this year, and paved between the curb and street car rail with large granite blocks on a Portland cement concrete base, with pitch and pebble joints. That portion between Milk street and Commercial street will be completed this coming season. This work was done under contract by Robert Eagar, who also did the regulating. The former pavement was granite blocks on a concrete base with cement grout joints.

Avery street, from Washington street to 79 feet west of Haymarket place, was paved with large granite blocks, on a gravel base, with pitch and pebble joints, by John E. Burns, who also did the excavating and regulating. The former surface was Sicilian Rock asphalt, on a concrete base.

Boylston street, between Washington street and Tremont street, was repayed with old granite blocks, on a gravel base, with pitch and pebble joints, by John T. Shea, Jr., who also did the barring up of the old payement.

Blackstone street, from Hanover street to Haymarket square, was paved with large granite blocks, on a 6-inch Portland cement concrete base, with pitch and pebble joints, by D. J. Kiley, who also did the excavating and regulating. The old paving blocks were hauled to Burnham's wharf by the contractor. The former surface was granite blocks, on a gravel base, with gravel joints.

Causeway street, from Nashua street, across Lowell street, was paved under contract by D. J. Kiley, with large granite blocks, on a 6-inch Portland cement concrete base, with pitch and pebble joints, including the area of the tracks, which was paid for by the Boston Elevated Railway Company. The excavating and regulating were done by the contractor. The surplus materials were removed by the city. The former surface was granite blocks, on a gravel base, with gravel joints.

Chatham street, from Merchants row to Commercial street, was paved with large granite blocks, on a 6-inch Portland cement concrete base, with pitch and pebble joints, by D. J. Kiley, who also did the excavating and regulating. The old paving blocks were hauled to the lot on Massachusetts avenue and to Burnham's wharf by the contractor. The former surface was granite blocks, on a gravel base, with gravel joints.

Chatham row, from Chatham street to State street, was paved with large granite blocks, on a 6-inch Portland cement concrete base, with pitch and pebble joints, by D. J. Kiley, who also did the excavating and regulating. The old paving blocks were hauled to Burnham's wharf by the contractor. The former surface was granite blocks, on a gravel base, with gravel joints. Columbus avenue, between Roxbury street and Cedar street, was repayed on the westerly side by the James J. Coughlan Construction Company. This payement is large granite blocks, on a 6-inch Portland cement concrete base, with pitch and pebble joints.

Eliot street, Washington street to Tremont street, was paved under contract by Jeremiah J. Sullivan, with large granite blocks, on a 6-inch Portland cement concrete base, with pitch and pebble joints, including the area of the tracks, which was paid for by the Boston Elevated Railway Company. The excavating and regulating were done by the contractor. The old paving blocks were hauled to the lot on Massachusetts avenue. The former surface was granite blocks, on a concrete base, with pitch joints.

*Essex street*, from Chauncy street to Lincoln street, was paved under contract by John McCourt, with large granite blocks, on a 6-inch Portland cement concrete base, with pitch and pebble joints, including the area of the track, which was paid for by the Boston Elevated Railway Company. The excavating and regulating were done by the contractor. The old paving blocks were hauled to the lot on Massachusetts avenue. The former surface was granite blocks, on a gravel base, with part pitch and part gravel joints.

Harrison avenue, from Bedford street to Essex street, was paved under contract by William J. Rafferty, with large granite blocks, on a 6-inch Portland cement concrete base, with pitch and pebble joints, including the area of the tracks, which was paid for by the Boston Elevated Railway Company. The excavating and regulating were done by the contractor. The old paving blocks were hauled to the lot on Massachusetts avenue. The former surface was granite blocks, on a gravel base, with gravel joints.

Harrison avenue, from Beach street to Kneeland street, was paved under contract by John E. Burns, with large granite blocks, on a 6-inch Portland cement concrete base, with pitch and pebble joints, including the area of the tracks, which was paid for by the Boston Elevated Railway Company. The excavating and regulating were done by the contractor. The old paving blocks were hauled to the lot on Massachusetts avenue. The former surface was granite blocks, on a gravel base, with gravel joints.

South street, from Essex street, across Beach street, was paved under contract by Jeremiah J. Sullivan, with large granite blocks, on a 6-inch Portland cement concrete base, with pitch and pebble joints, including the area of the tracks, which was paid for by the Boston Elevated Railway Company. The excavating and regulating were done by the contractor. The old paving blocks were hauled to the lot on Massachusetts avenue. The former surface was granite blocks, on a gravel base, with gravel joints.

#### ASPHALT.

Ash street, from Bennet street to Nassau street, was paved with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface and one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder laid on a 6-inch Portland cement concrete base, under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company. The excavating and regulating were done by John E. Burns. The former surface was Trinidad asphalt on a concrete base.

Bennet street, from Ash street to Harrison avenue, was paved with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface, and one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder laid on a 6-inch Portland cement concrete base, under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company. The excavating and regulating were done by John E. Burns. The former surface was part Trinidad asphalt and part granite block on a gravel base with gravel joints.

Bolton street, from C street to D street, was paved with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface on one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder on a 6-inch Portland cement concrete base, under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company. The regulating was done by William Higgins, and the excavating was done by the city. The former surface was macadam.

Devonshire street, from Milk street to Franklin street, was paved with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface, and one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder on the old concrete base under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company, who also laid Portland cement concrete which was required to make up the difference in the thickness between the old block paving and the new asphalt pavement. John E. Burns did the regulating and the city removed the old blocks. The former surface was granite blocks on a concrete base with cement gront joints.

Harrison avenue, from Decatur street to Gloucester place, was paved with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface and one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder laid on a 6-inch Portland cement concrete base, under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company. The track area was paved with large granite blocks on a 6-inch Portland cement concrete base with pitch and pebble joints, under contract by John E. Burns, who also did the regulating and excavating. The old paving blocks were hanled to the South End paving yard by the city. The track area was paid for by the Boston Elevated Railway Company. The former surface was granite blocks on a gravel base with gravel joints.

*Huyward place*, from Harrison avenue about 192 fect westerly, was repayed with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface and one and one-half  $(1\frac{1}{2})$  inches of

bituminous concrete binder laid on a 6-inch Portland cement concrete base, under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company, who also did the necessary excavating. The former surface was asphaltina on a concrete base. On account of the subway work in Washington street that end of Hayward place was not resurfaced.

Norman street, from Green street to South Margin street, was paved with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface and one and one-half  $(1\frac{1}{2})$  inches of bituminons concrete binder laid on a 6-inch Portland cement concrete base, under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company. The excavating and regulating were done by D. J. Kiley. The former surface was granite blocks on a gravel base with gravel joints.

Northampton street, from Washington street to Shawmut avenue, was paved with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface and one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder laid on a 6-inch Portland cement concrete base by the Barber Asphalt Paving Company. The track area was paved with large granite blocks on a 6-inch Portland cement concrete base with pitch and pebble joints, under contract by Thomas McMan, who also did the excavating and regulating. The track area was paid for by the Boston Elevated Railway Company. The former surface was granite blocks on a gravel base with gravel joints.

Salutation street, from Hanover street to Commercial street, was paved with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface, and one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder on a 6-inch Portland cement concrete base, under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company, who also did the regulating and excavating. The old blocks were hauled to the North End paving yard by the city. The former surface was granite block on a gravel base with gravel joints.

South Margin street, from Staniford street across Norman street, was paved with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface and one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder laid on a 6-inch Portland cement concrete base under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company. The excavating and regulating were done by D. J. Kiley. The former surface was granite blocks on a gravel base with gravel joints.

Tileston street, from Hanover street across Unity street, was repayed with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface, and one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder on a 6-inch Portland cement concrete base, under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company, who also did the regulating and excavating. The old paving blocks were hauled to the North End paving yard by the city. The former surface was part Trinidad asphalt on a cobble base and part granite blocks on a gravel base with gravel joints.

West Sixth street, from C street to D street, was paved with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface and one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder, the greater part on a 6-inch Portland cement concrete base and a small part on existing concrete base, under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company. The track area was paved with large granite blocks on a 6-inch Portland cement concrete base with pitch and pebble joints, under contract by William Higgins, who also did the regulating. The excavating was done by the city. The track area was paid for by the Boston Elevated Railway Company. The former surface was mainly granite blocks on a gravel base with gravel joints, a small amount being asphalt.

Wiggin street, from Tileston street to North Bennet street, was repayed with one and one-half  $(1\frac{1}{2})$  inches of Trinidad asphalt wearing surface and one and one-half  $(1\frac{1}{2})$  inches of bituminous concrete binder on a 6-inch Portland cement concrete base, under a ten (10) years' maintenance guarantee, by the Barber Asphalt Paving Company, who also did the excavating and regulating. The old cobbles were hauled to Burnham's wharf by the city. The former surface was Trinidad asphalt on a cobble base.

#### BITULITHIC PAVEMENT.

This is a patent pavement composed of crushed stone and bituminous cement. It is laid six (6) inches deep, four inches of which is composed of No. 1 crushed stone well rolled and treated with two layers of bituminous cement. The other two inches, or wearing surface, is composed of a crushed stone varying in size from two (2) inches to a fine dust, and heated and mixed with bituminous cement and rolled with a steam-road roller. This pavement was laid in the following streets under a ten (10) years' maintenance guarantee, by the Warren Brothers Company.

Albany street, from northerly side of Stoughton street across East Concord street. The contractor did the excavating and the city removed the excavated material. The former surface was Sicilian Rock asphalt on a concrete base.

Albany street, from Massachusetts avenue about 225 feet northerly. The contractor did the excavating and regulating. The former surface was granite block on a gravel base with gravel joints.

Allen street, from Chambers street to Charles street. The contractor did the excavating and regulating. The former surface was macadam.

Boylston street, from Massachusetts avenue to the Parkway, with the exception of the track area, which was paved with large granite blocks on a 6-inch Portland cement concrete base with pitch and pebble joints. The contractor did the excavating and regulating. The track area was paid for by the Boston Elevated Railway Company. The former surface was macadam.

*Clarendon street*, from Beacon street to Boylston street, minus Commonwealth avenue intersection. The contractor did the excavating and regulating. The former surface was macadam.

Dorchester street, from the northerly side of Broadway to Eighth street, with the exception of the track area and the intersections of Fourth, Old Harbor, Fifth and Telegraph streets, which were paved with large granite blocks on a 6-inch Portland cement concrete base with pitch and pebble joints. The contractor did the excavating and regulating. The track area was paid for by the Boston Elevated Railway Company. The former surface was macadam.

Harrison avenue, from Northampton street, across East Springfield street, with the exception of about 140 square yards of asphalt near East Springfield street, and track area which was paved with large granite blocks on a 6-inch Portland cement concrete base with pitch and pebble joints. The contractor did the excavating and regulating. The track area was paid for by the Boston Elevated Railway Company. The former surface was granite blocks on a gravel base with gravel joints.

McLean street, from Chambers street to Blossom street. The contractor did the excavating and regulating. The former surface was macadam.

St. Alphonsus street, from Tremont street across Smith street. The contractor did the excavating and regulating. The former surface was macadam.

Thomas Park, South Boston. The contractor did the excavating and regulating. The former surface was macadam.

*Tyler street*, from Beach street to Harvard street and from Oak street to Curve street. The contractor did the excavating and regulating. The former surface was macadam.

#### Assessment Streets.

The following streets have been completed under the provisions of chapter "323" of the Acts of 1891, and the acts in amendment thereof or in addition thereto.

Belgrade avenue, from South street to Anawan avenue, has been completed during the year. Work was resumed on that portion between South street and 120 feet west of Newburg street, April 4, 1905, by Philip Doherty, under his contract, dated April 25, 1904, and completed August 25, 1905. Work on that portion between 120 feet west of Newburg street and Anawan avenue was resumed April 10, 1905, by Philip Doherty, under his contract dated June 6, 1904, and completed November 14, 1905. The street is about 4,588 feet long and 70 feet wide, including sidewalks. It has two (2) 12-foot crushed stone sidewalks, granite edgestone, three (3) foot granite block gutters and flagging crosswalks. The roadway, with the exception of the track area, which was paved by the Boston Elevated Railway Company, is principally 6-inch macadam. There is also a small amount of granite block paving on a gravel base with gravel joints. The straight edgestone, flagging and crushed stone were furnished by the city and hauled by the contractor. The gutter blocks and the circular edgestone were furnished by the city on the site of the work.

Columbia road, from the bridge over Old Colony avenue to Covington street, was completed May 6, 1905, by T. F. Bradley, under his contract dated July 15, 1903. This street is about 4,550 feet long. At the bridge over Old Colony avenue there is a single telford-macadam (8-inch telford, 4-inch macadam) roadway, with two (2) crushed stone sidewalks each 10 feet wide. running in a northeasterly direction for about 200 feet, gradually widening into two (2) roadways. The easterly or pleasure drive is 42 feet wide, of 9-inch macadam, with 15-foot crushed stone sidewalks and edgestone. A fifteen (15) foot planting space is between the roadways. The westerly or traffic road is 30 feet wide, of 4-inch macadam on 8-inch telford base with 8-foot crushed stone sidewalks and edgestone. This type of construction continues in a northerly direction for about 800 feet. From here the pleasure drive continues of the same width and description to a point near Hyde street, where it turns in an easterly direction, and running about 600 feet connects with a drive of the same character built by the Park Department. The loam space between this driveway and a traffic road to be built on Old Colony avenue (proposed) has been constructed to a point near Hyde street at a width of 23 feet. From thence following the pleasure drive it gradually widens until it meets the Park construction opposite Newman street, at which point it is 40 feet wide. From a point opposite Hyde street on Old Colony avenue to Newman street, a traffic road (telford-macadam) 30 feet wide has been built with 17-foot sidewalks and edgestones. Ten (10) fect of the sidewalk is crushed stone and seven (7) feet is loam. From Newman street to Covington street, a part of Columbia road, formerly Ninth street, a traffic road (telford-macadam) 42 feet wide with 8-foot sidewalks and edgestones has been built. The straight edgestone and flagging and crushed stone were furnished by the city and hauled by the contractor. The circular edgestone and gutter blocks were furnished by the city on the site of the work.

Hyde Park avenue, from Walk Hill street to about 287 feet north of Ashland street was completed during the year. Work on that portion between Walk Hill street and Stony Brook was resumed April 17, 1905, by Thomas F. Minton, under contract dated May 12, 1904, and completed November 20, 1905. On that portion between Stony Brook and 287 feet north of Ashland street, work was resumed March 24, 1905, by Thomas F. Minton, under his contract dated July 7, 1904, and completed December 13, 1905. This street is about 7,200 feet long and is 80 feet wide, including sidewalks. It has two (2) thirteen (13) foot erushed stone sidewalks, granite edgestone, 3-foot granite block gutters, flagging crosswalks and a 6-inch macadam roadway, excepting the track area, which was paved with granite blocks on a gravel base with gravel joints by the Boston Elevated Railway Company. The straight edgestone, flagging and crushed stone were furnished by the city and hauled by the contractor. The circular edgestone and gutter blocks were furnished by the city on the site of the work.

### FINANCIAL STATEMENT.

#### REGULAR APPROPRIATION.

Maintenance\$900,000Transfers from various appropriations109,915Amount collected for repairs made by Paving Division for different companies, etc1,837	18
Expenditures from February 1, 1905, to Janua 31, 1906	
STREET IMPROVEMENTS.	
Balance on hand February 1, 1905Amount of appropriation\$500,000Amount of loan.Amount collected for repairsmade by Paving Division fordifferent companies, etc.19,803Transferred from appropriation	00
for foot-bridge over N. Y., N. H. & H. R. R., at Gains-	59
borough street	
	\$767,774 96
Expenditures from February 1, 1905, to Janua 31, 1906	ry
Unexpended balance, January 31, 1906	. \$67 50

### TOTAL EXPENDITURES.

Maintenance appropriation, Paving Division .	\$1,011,752 77
Street improvements	767,707 46
Atlantic avenue, reconstruction	15,570 92
Atlantic-avenue extension (for City Engineer) .	8,741 91
Brandon street and Belgrade avenue	39,374 40
Broadway bridge, rebuilding	$191 \ 50$
Freeport street, retaining wall	$704 \ 70$
Highways, making of	10,604 01
Hyde Park avenue	58,973 $65$
Reconstruction of bridges over railroad tracks at	
Norfolk, Harvard, Medway and West Selden	
streets	14,165 36
	\$1,927,786 68
	*-,0,100 00

### INCOME.

Statement showing the amount of bills deposited with the City Collector from February 1, 1905, to January 31, 1906, on account of the Paving Division:

Edgestone and sidewalk assessments.			\$19,335	96
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The amount paid into the City Treasury during the year on account of the Paving Division was as follows:

Sidewalk construction assessments (law of 1893), \$19,417 22

to	
1905,	
Ι,	
February	
from	
Districts,	
$\mathbf{b}\mathbf{y}$	
Classified	1906.
Appropriation,	January 31,
Regular	
the	
from	
Expenditures	
of	
ts.	

Repairs. Snow. Edgestone and and Repairs. Repairs.
\$3,974 78 \$16,921 38 \$11,144
8,439 65 5,749 75 9,452 06
10,486 95 7,909 14 4,156
9,378 28 5,382 41 1,826 4
9,897 56 9,503 93 1,253
22,336 71 11,419 59 10,236
24,082 33 16,904 75 13,822
15,495 13 29,584 74 13,963
6,254 92 11,437 26 7,817
28,218 82 22,302 94 5,574 57
\$138,565 13 \$137,115 89 \$79,247 96

# CITY DOCUMENT NO. 40.

# SCHEDULE A.

Salaries of Deputy	Superinte	ndent	and	01	ffice		
employees .	ouperinte					\$13,360	20
Salaries of permit offic	re employe	es	•	•	•	9,338	
Salaries of inspectors	te employe	.00	•	:		24,562	
Salaries of engineers	• •	•	•	•	•	30,209	
Salaries of smoke insp		•	•	•	•	2,316	
		•	•	·	•	57,683	
Holidays Signs and numbers	• •	•	•	•	•		
Signs and numbers	• •	•	•	•	•	5,464	
Furniture	lea aboda	•	•	•	•	27	
Repairing offices, stab		etc.	•	• ·	•	1,490	
Engineering supplies		•	•	•	•	401	
Gas and electric lighti		•,	•	•	•	688	
Medical attendance on		mploye	ees	•	•	447	
Pay allowed injured en		•	•	•	•	771	
Printing and stationer	у.	•	•	•	•	5,995	
Wharfage and rent	• •	•	•	•	•	10,766	
Fuel and oil .	• •	•	•	•	•	2,550	
Taxes	• •	•	•	•	•	339	69
Advertising .		•	•		•	260	72
Telephone service		•	•	•		1,746	30
Veterinary services	• •	•	•			1,414	00
Shanties, repairing, et		•			•	214	00
Artificial stone sidew	alks, repa	iring	and	reba	ates		
allowed						6,330	64
Stoves, stove-pipe, etc	з					357	78
Expenses of yards	and stable	es,					
including care of ho	rses, repai	$\mathbf{rs}$					
to earts, harness, et			\$193,	978	47		
Less amount earned 1							
• •			81,	659	48		
STOR CONTRACT		·				112,318	99
Tools, new, and cost of	of repairin	g. etc.				27,064	42
Street cleaning .		5, 000			÷	82,831	49
Edgestones and sidewa	alks new	•				14,289	
Fences and plankwalk	s new	•	•	·	•	1,205	
Fences and plankwalk Crossing repairs . Crossings, new .	5, new	•	•	•	·	10,077	
Crossing repairs .	•••	•	•	•	•	2,906	57
Street Cleaning Division	• •	·	•	•	•	2,300	
Sewer Division, filling	in tranche	•	•	•	•	1,209	
			•	•	•		
Sanding icy streets	• •	·	·	•	•	146	
Oatmeal		•	•	. •	•	215	
Travelling expenses an			•	•	•	$1,\!135$	
Repairing building at	Revere-str	eet wn	art	·	•	80	
Repairing fence on Ch	elsea bridg	ge	• .	·	•	509	
Painting buildings, Ea	ist Eagle-s	treet y	ard	•	•	270	
Electrical appliances a	nd repairs	at yai	rds	•	•	974	70
(1 . 1						4400 010	
Carried forward	• •	•	•	•	•	\$432,018	43

# CITY DOCUMENT No. 40.

Brought forward		\$432,018	43
Executions of court		427	
Damages		219	45
Building new shed, repairing buildings and gradi	ng		
yard at Charlestown yard	•	8,369	14
Building stairs at Columbia-road bridge		184	
Repairing retaining wall, Bowen street .		64	15
Building new shed at South yard		2,598	68
Building shed for steam-roller at East Eagle-stre	et	,	
vard		54	20
New steps, Everett-street bridge, Brighton .		413	28
Steam-rollers (two, new)		5,900	00
Rent of towels			80
Extra postage, etc.		44	36
Subscriptions to newspapers		13	50
Repairs to Franklin street tunnel	÷	$51^{-1}$	
Repairs to Traverse street subway		15	35
Use of scales for weighing stone		41	
Constable bond	Ì	15	00
Expressage on empty oil barrels		12	25
		82	65
Ensigns		30	00
Messenger service		1	95
Repairing heater		74	39
Sundries		101	00
Stock		8,017	83
Stone-crushers		43,072	
Total		\$501,888	53
Less amount earned by steam-rollers		1,616	19
		\$500,272	34
		<i>wood</i> , <i>212</i>	01

DETAIL OF EXPENDITURES UNDER SPECIAL APPROPRIATIONS.

Atlantic avenue, reconstruction				•	* \$15,570	92
Atlantic avenue, extension .		•			8,741	91
Brandon street and Belgrade a	venue				39,374	40
Broadway bridge, rebuilding					191	50
Freeport street, retaining wall					704	70
Hyde Park avenue					58,973	65
Reconstruction of bridges over	railr	oad t	racks	$\mathbf{at}$		
Norfolk, Harvard, Medway	and	West	: Sele	len		
streets	•	•	•	•	$14,\!165$	36
Total		•			\$137,722	44

\* \$612.60 paid by Boston Elevated Railway Company.

### STREET IMPROVEMENTS.

Abbot street, from Blue Hill avenue, 200 feet		
easterly	\$298	17
Adams street, Richmond street to Milton street .	1,533	44
Advertising	286	
Akron street, Regent street to Alpine street	2,436	10
Albany street, Beach street to Kneeland street	7,227	66
Albany street and East Dedham street, at inter-	,	•
section of both streets	4,425	05
Albany street, Stoughton street to East Concord	-,	
street	4,630	00
Albany street, from Massachusetts avenue, 225 feet		
northerly	6,239	
Allen street, Chambers street to Charles street	15,029	53
Allston street, at Commonwealth avenue	264	05
Almont street, Blue Hill avenue to Walk Hill		
street	6,728	82
Alveston street, Greenough street to Seaverns		
avenue	268	83
Anawan avenue, near Beech street	171	
Ash street, Bennet street to Nassau street	1,906	47
Ashburton place, unfinished from 1904.	86	
Ashford street, Chester street to Malvern street .	3,566	49
Ashland street, from Washington street, 100 feet		
southerly	141	04
Ashmont street, Adams street to Neponset avenue,		
and at engine-house on Dorchester avenue	10,918	15
Asphalt repairs	13,312	
Atherton street, near Amory street	271	
Auckland street, Elton street to Belfort street	1,092	98
Avery street, Washington street to Mason street .		32
Batchelder street, West Cottage street to Clifton		
street	479	12
Bay State road, Beacon street to Granby street .	4,516	73
Beacon street, Dartmouth street to Fairfield street	,	
(unfinished)	962	89
Beech street, Anawan avenue to Washington street,	7,689	55
Belfort street, Sagamore street to Dorchester	,	
avenue	824	79
Bellevue street, Park street to Francis street .	204	00
Bennet street, Ash street to Harrison avenue	1,996	
Bickerstaff street, Haviland street to Norway street,	2,345	
Blackinton street, Bennington street to Leyden	,	
street	1,446	81
Bluckstone street, Hanover street to Cross street .	8,572	
Blue Hill avenue, McLellan street to Callender	,	
street and Lauriat avenue to Walk Hill street .	15,729	54
Carried forward	\$126,339	52

Brought forward	\$126,339	59
Boardman street, Saratoga street to Leyden street,	\$120,333 307	52 50
Bolton street, C street to D street	3,635	
Boston street, Mt. Vernon street to Dorset street.	5,035 5,152	
Bourne street, near Canterbury street		
	225	
Boylston avenue, unfinished from 1904	135	00
Boylston street, Washington street to Tremont street	878	28
Boylston street, Dartmouth street to the bridge		
(unfinished from 1904)	137	36
Boylston street, Massachusetts avenue to Fenway.	*7,583	95
Breed street, Gladstone street to Ashley street	1,350	
Bremen street, at Marion street	204	
Brent street, from Talbot avenue, 260 feet westerly,	450	00-
Brookline avenue, Beacon street to Audubon road,	14,701	12
Brooks street, Saratoga street to Morris street	1,435	
Brookside avenue, Green street to Boylston street,	1,816	
Brown avenue, Poplar street to Florence street .	14,382	
Cambridge street, Harvard avenue to R.R. bridge,	448	
Camden street, Shawmut avenue to Tremont street,	471	
Canterbury street, Morton street to Walk Hill street,	4,081	53
Carolina avenue, work not started	137	50
Catawba street, Laurel street to Sherman street .	999	37
Causeway street, Portland street to Leverett street,	†7,773	
Cedar street, River street to Manchester street	1,155	
Centre street, Beech street to La Grange street,	-,100	<b>.</b>
Sheridan street to Eliot street, Allandale street to		
Louder's lane, and Baker street to Dedham line,	16,109	80
Centre street, unfinished work from 1904	575	
Chatham row, State street to Chatham street	1,119	-
Chatham street, Merchants row to Commercial	- ,	
street	6,855	11
Chelsea street, Mt. Vernon street to Vine street .	\$13,512	
Chelsea street, Prescott street to Gove street	7,173	
Chestnut avenue, Boylston street to Paul Gore	- ,	
street	1,035	97
Chestnut Hill avenue, from Washington street, 300	_,	
feet southerly	455	53
Circuit street, at Regent street	153	
Clarendon street, Tremont street to Columbus		
avenue (unfinished from 1904)	2,398	45
Clarendon street, Beacon street to Boylston street,	20,406	
Cobden street, Washington street to Walnut avenue	1,822	
Colton street, West First street to West Second	_,	
street	1,241	44
Columbia road, Quincy street to Stanwood street,	5,464	
continuous route, quinto, succe to star hour succes,		
Carried forward	\$272,127	94

<sup>\* \$452.65</sup> paid by Boston Elevated Railway Company. † \$961.85 paid by Bostou Elevated Railway Company. † \$2,447.40 paid by Boston Elevated Railway Company, and \$235.27 paid by Bos-ton & Northern Street Railway Company.

Brought forward	\$272,127	94
Columbus avenue, Roxbury street to Cedar street,	8,565	13
Commonwealth avenue, St. Paul street to Pleasant		
street and Beacon street to Cottage Farm	11,298,	49
Conant street, Huntington avenue to Parker street,	2,249	
Congress street bridge	8,707	
Cornwall street, near Brookside avenue	180	
Crawford street, near Harold street	633	
Curve street, Albany street to Tyler street	2,510	
Cushing avenue, Jerome street to Sawyer avenue .	817	78
D street, unfinished from 1904	838	
Dale street, near Sherman street	240	
Dartmouth place, repairing wall	90	60
Decatur street, Medford street to Bunker Hill street,	436	33
Denny street, from Savin Hill avenue 200 feet		
southerly	\$241	23
Devonshire street, Franklin street to Milk street .	6,076	
Dorchester avenue, sea wall, unfinished from 1904,	1,270	
Dorchester avenue, at Andrew square	254	15
Dorchester avenue, Savin Hill avenue to Roach	401	10
street	10 099	05
	10,022	00
Dorchester avenue, Freeport street to Leedsville	. 10.014	
street	12,314	
Dorchester avenue, Beale street to Adams street .	1,868	98
Dorchester street, West Broadway to West Eighth		
street, and at intersection of West Broadway .	$*47,\!031$	56
Dundee street, Massachusetts avenue to Dalton		
street	1,730	83
Dunmore street, Dudley street to Magazine street,	518	
Dupont street, Chelsea street to Decatur street	152	00
East Dedham street, at Albany street (see Albany		
street)		
East First street, I street to L street	4,222	13
East First street, P street to Q street	3,503	
East Lenox street, Washington street to Harrison	0,000	02
avenue	9 450	477
	2,459	
East Ninth street, Mercer street to Columbia road,	714	
East Second street, L street to O street	10,024	
East Seventh street, unfinished work from 1904 .		75
East Sixth street, I street to K street	4,030	38
Eastburn street, Mt. Vernon street to Washington		
street	1,408	33
Eastman street, at Columbia road	478	
Edgewood street, Warren street to Blue Hill avenue,	$^{2,241}$	71
Eliot street, Washington street to Tremont street,	+6,709	
Eliot street, Centre street to Pond street	1,600	
Elm street, Bartlett street to Medford street	5,434	
	·	
Carried forward	\$433,019	60
	W100,010	00

 $^{*}$  \$5,645.63 paid by Boston Elevated Railway Company. † \$1,539.43 paid by Boston Elevated Railway Company.

# CITY DOCUMENT NO. 40.

Brought forward	\$433,019	60
Elm street, Green street to Newbern street .	733	
Elton street, Sagamore street to Dorchester avenue,	922	
Emerald street, Castle street to Dover street, from		••
1904	169	07
Englewood avenue, tar concrete sidewalk	1,924	00
Essex street, Lincoln street to Chauncy street	* 12,577	16
Essex street, Harrison avenue to Washington street,	† 925	50
Eutaw street, Maverick street to Border street .	1,383	19
Evelyn street, Norfolk street to Blue Hill avenue .	635	78
Everett street, Bunker Hill street to Medford street,	3,466	90
Everett street, Bishop street to Elm street	1,020	93
Exeter street, Boylston street to Huntington avenue,	1,066	30
Falcon street, Glendon street to Meridian street .	5,335	34
Fayette street, from Pleasant street	459	47
Fellows street, Northampton street to East Lenox		
street	2,740	36
Ferrin street, near Chelsea street	310	95
Flagg street, Washington street to Reed street .	587	18
Florence street, Sherwood street to Ridge street .	2,592	<b>44</b>
Francis street, Tremont street to Parkway	.5,604	15
Frederick street, unfinished from 1904 .	47	55
Fruit street, North Grove street to Charles street .	1,626	30
Fuller street, Washington street to Dorchester		
avenue	5,965	05
Geneva avenue, Columbia road to Westwood street,	1,605	36
Glendon street, West Eagle street to Falcon street,	708	40
Green street, tar concrete sidewalks, repairs	1,496	20
Grimes street, West Eighth street to West Seventh		
street	1,531	67
Grove street, Washington street to Centre street .	433	87
Gustin street, West Ninth street to Old Colony		
avenue	1,342	61
Hall street, work not started	312	50
Hamilton street, Bowdoin street to Mt. Everett		
street, unfinished from 1904	3,737	67
Hancock street, Columbia road to Pleasant street,	2,983	00
Harold street, near Homestead street	150	64
Harris avenue, Centre street to Alveston street .	356	74
Harrishof street, Walnut avenue to Humboldt	0.000	0.0
avenue	6,863	02
Harrison avenue, Bedford street to Essex street.	7,612	63
Harrison avenue, Beach street to Kneeland street,	\$5,574	63
Harrison avenue, Decatur street to Gloucester	60.010	0.0
place	\$2,912	99
. Carried forward	\$520,735	17
	\$040,100	

\$691.38 paid by Boston Elevated Railway Company.
 † \$606.50 paid by Boston Elevated Railway Company, and \$319 paid by George A.
 Fuller Construction Company.
 ‡ \$1,015.32 paid by Boston Elevated Railway Company.
 \$ \$453.72 paid by Boston Elevated Railway Company.

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Brought forward	\$520,735	17
Northampton street	9,536	18
Harvard street, Blue Hill avenue to Wales street,	3,694	
Harvara street, Bue fill avenue to wates street,	/	
Have street, Meridian street to Sumner street, Hayward place, from Harrison avenue, 192 feet	2,699	60
westerly Highgate street, Farrington street to Cambridge	$*1,\!671$	90
	170	<b>۳</b> .0
street	476	
Highland street, Marcella street to Centre street,	1,465	04
Hulbert street, Washington street to Regent street,	758	40
Huntington avenue, Dartmouth street to the		
bridge, work not started	32	50
Huntington avenue, at intersection of Gainsbor-	354	00
ough street	004	00
Huntington avenue, Francis street to Brookline		
line	2,063	20
Hyde Park avenue, near Walk Hill street	330	09
Jefferson street, Tremont street to Fayette street .	477	44
K street, from East First street northerly to the		
water line	488	73
Kingsdale street, from Standish street to 560 feet		
west of Bernard street	6,918	13
Knapp street, included in cost of Harrison avenue,		
Kneeland street, unfinished from 1904	83	20
La Grange street, Washington street to Robin		
street	1,398	94
Lexington street, Meridian street to Border street,	185	90
Leyden street.	273	35
London street, Maverick street to Decatur street .	947	50
<i>M street</i> , East Eighth street to Columbia road .	1,554	
M street, East Fighth street to Columbia road	,	
Magazine street, Dudley street to George street .	1,525	10
Malvern street, from Ashford street 200 feet east-	328	15
erly	020	19
	1 494	20
street	1,424	
Mason street, Front street to Rutherford avenue . Massachusetts avenue, Southampton street to rail-	622	39
road	3,756	61
Massachusetts avenue, Albany street to Washing-	0,100	01
ton street	3,376	49
Mayrood street, Warren street to Blue Hill avenue,	2,339	
McLean street, Chambers street to Blossom street,	6,119	
Mercer street, East Eighth street to Columbia road,	3,091	
Meridian street, Eutaw street to Condor street .	529	
Middlesex street, Dover street to Compton street .	1,814	23
Carried forward	\$581,072	52

\* \$1,402, 50 paid by George A. Fuller Construction Company; \$78,75 paid by Bos-ton Water Department; \$172,50 paid by Edison Electric Illuminating Company, and \$67,50 paid by Boston Transit Commission.

# CITY DOCUMENT NO. 40.

Brought forward	\$581,072	52
Milton avenue, Norfolk street to Fuller street	1,250	
Montview street, Mt. Vernon street to Corey street,	280	
Morton street, Norfolk street to West Selden street,	1,788	
Mozart street, Centre street to Lamartine street	2,186	
Mozart street, Centre street to Damartine street .	,	
Mt. Pleasant avenue, Dudley street to Vine street,	1,826	
Mt. Vernon street	706	91
Mt. Vernon street, Dorchester avenue to Shoreham		
street	8,188	
N street, East Sixth street to Columbia road	2,615	96
Neponset avenue, unfinished work from 1904 .	122	37
Newbern street, Carolina avenue to Elm street .	482	09
Newbury street, Massachusetts avenue to Brookline		
avenue	4,543	04
Newman street, Dorchester street to Mercer street,	1,619	
Nonantum street, Washington street to Newton line,	9,769	
Norfolk avenue, Magazine street to Marshfield	0,100	01
	4,564	70
street	4,004	13
Norfolk-street bridge, in excess of special appropria-	100	r 0
tion	126	
Norman street, Green street to South Margin street,	3,348	94
Northampton street, Harrison avenue to Washing-		
ton street	$^{8,010}$	87
Northampton street, Washington street to Shawmut		
avenue	* 6,189	45
Norway street, Massachusetts avenue to Hemen-		
way street	1,145	60
Oakdale street, Green street to Lamartine street .	$1,\!145$	94
Orchard Park street, Adams street to Chadwick.	,	
street · · · · · · · ·	2,027	21
Oregon street, Conant street to Smith street	521	
Ottawa street, Sherman street to Laurel street	1,467	12
7 70	$^{1,401}_{+2,173}$	96
		58.
Paul Gore street, Centre street to Lamartine street,	3,011	
Pearl street, Pleasant street to Dorchester avenue.	1,174	72
Pembroke street, Shawmut avenue to Warren avenue,	6,950	25
Pleasant' street, Stoughton street to Savin Hill		
avenue	1,711	
Pond street, May street to Prince street	505	
Poplar street, work done in 1904.	87	50
Pratt street, Wadsworth street to Linden street .	1,299	73
Preble street, Dorchester street to Old Colony		
avenue	4,077	49
Q street, East First street to East Fourth street .	312	90
Reed's court, Yeoman street to Ambrose street .	595	
Reedsdale street, Brighton street to Commonwealth		
avenue	2,140	98
Carried forward	\$669,032	47
	# 0 0 0 <b>,</b> 0 0 <b>D</b>	

\* \$1,219.20 paid by Boston Elevated Railway Company. † \$711.16 paid by Eastern Expanded Metal Company.

De la Commit	ecco 099	
Brought forward	\$669,032	
Regent street, Warren street to Dale street	10,959	
Richfield street, unfinished work from 1904 .	295	33
River street, Mattapan square to Hyde Park line	1 -0-	0.1
(north side)	4,585	
Rockville park, from Warren street	965	
Ruthven street, near Harold street	318	37
Salutation street, Hanover street to Commercial	1 050	<i>~</i> .
street	1,379	74
Saratoga street, Austin street to Winthrop bridge,	5,442	40
Saratoga street, Swift street to Moore street	10,992	60
School street, in front of City Hall	391	80
School street, Harvard street to Washington street,	1,737	09
Seaverns avenue, Alveston street to Elm street .	1,907	70
Shawmut avenue, West Springfield street to Massa-		
chusetts avenue	2,337	28
Shelby street, Saratoga street to Lexington street,	7,663	
Silver street, D street to Dorchester street	$^{5,283}$	03
South street, Dudley avenue to Hewlett street, and		
at Morton street	3,986	
South street, Beach street to Essex street	* 9,988	34
South Fairview street, unfinished work from 1904,	324	36
South Margin street, Staniford street to Norman		
street	1,657	
South Walter street, unfinished work from 1904 .	1,200	18
Spencer street, Wheatland avenue to Park street .	1,182	81
Spring Park avenue, Centre street to Chestnut		
avenue	1,305	58
Spring street, Centre street to Powell street	458	50
St. Alphonsus street, Ward street to Smith street .	1,757	
St. Alphonsus street, Smith street to Tremont street,	6,212	03
Stimson street, Centre street towards Washington		
street	1,289	12
Summer street, at intersection of Dorchester avenue,	2,970	10
Summer street, Autumn street to Powell street	921	39
Talbot avenue, Blue Hill avenue to Whitfield street,		
and Washington street to Dorchester avenue		
(unfinished)	7,049	32
Thetford avenue, from Evans street 400 feet		
northerly	544	49
Thomas park, entire	30,314	45
Tileston street, Hanover street across Unity street,	2,210	<b>29</b>
Topliff street, Bowdoin street to Westville street .	7,243	52
Trenton street, Marion street to Meridian street .	1,341	30
Tufts street	95	
Tyler street, Beach street to Broadway extension		
(except section between Harrison avenue and		
Oak street)	12,345	96
Carried forward	\$817,701	32

\*\$1,958.75 paid by Boston Elevated Railway Company.

# CITY DOCUMENT NO. 40.

Brought forward	\$817,701	32
Union Park street, Albany street to Harrison		
avenue	1,248	07
Vale street, Dorchester street to Mercer street .	\$4,460	73
Vermont street, near Mount Vernon street	173	69
Victoria street, Dorchester avenue to Pleasant		
street	1,926	
Village street, Dover street to Castle street	$^{8,646}$	
Vine street, Chelsea street to Tufts street	295	<b>40</b>
Vineland street, Market street to North Beacon		
street	3,072	90
Walk Hill street, Hyde Park avenue to Windham		
street	7,420	71
Waltham street, Harrison avenue to Washington		
street	557	10
Walnut avenue	770	-
Walnut Park, Washington street to Walnut avenue,	2,946	
Ward street, Parker street to Huntington avenue.	6,378	
	0,570	00
Westford street, Raymond street to Raymond	1 100	0.0
street	1,192	90
Warren street, Cambridge street to Brookline line,	12,996	73
Washington street, Williams street to Vernon street,	2,815	42
Washington street, Townsend street to Morton		
street, unfinished	1,653	64
Washington street, Beach street to La Grange		
street and Keyes street to Green street	2,677	61
West Cedar street, Phillips street to Cambridge		
street	1,187	87
West Eagle street, Brooks street to Meridian street	2,146	76
West First street, Dorchester avenue to A street .	10,968	
West Rutland square, Columbus avenue to Carle-	,	
ton street	1,654	40
West Seventh street, B street to C street	2,385	30
West Sixth street, C street to D street	*8,852	67
	~0,002	07
West Walnut park, Washington street to Ban-	554	10
croft street	574	
Whitney street, Tremont street to Conant street .	1,190	11
Wiggin street, Tileston street to North Bennet		~ ~
street	620	56
Wigglesworth street, Tremont street to Huntington		
avenue	2,787	66
Woolson street, Norfolk street to Blue Hill avenue,	164	
Worthington street, Tremont street to Smith street,	2,001	34
Wyoming street, Warren street to Wabeno street,	1,076	
Total	\$912,545	34
Less amount paid out of appropriation for Paving	,	
Division	144,837	88
	\$767,707	46
	<b><i>w</i>••••••••••••••</b>	

\* \$804 paid by Boston Elevated Railway Company.

### HIGHWAYS, MAKING OF.

Benning	ton si	treet,	Chels	sea s	treet	to B	elle ]	[sle		
Inlet										14
Columbie									7,722	46
West Se										
street	•	•		•				•	2,239	41
	To	tal							\$10,604	01

New Edgestones. (Not including "323" Streets.)

YEAR.	South Boston,	East Boston.	Charlestown.	Brighton.	West Roxbury.	Dorcheșter.	Roxbury.	City Proper.	Totals.
1900	729	616	100		614	9,633	8,882	1,544	22,118
1901	1,925	1,184		4,627	7,936	22,574	13,942	$2,\!480$	54,668
1902	1,957	1,121		688	990	10,428	3,842	2,082	21,108
1903	1,578	1,581		5,838	912	10,959	10,164	4,131	35,163
1904	1,391	1,124	569	457	2,677	3,912	3,661	2,092	15,883
1905	2,049	1,494		1,867	6,056	13,548	1,814	4,705	31,533
Totals	9,629	7,120	669	13,477	19,185	71,054	42,305	17,034	180,473

First Setting. Linear Feet.

# New Brick Sidewalks. (Not including "323" Streets.)

YEAR.	South Boston.	East Boston.	Charlestown.	Brighton.	West Roxbury.	Dorchester.	Roxbury.	City Proper.	Totals.
1900	1,069	1,476	477	873	1,583	4,033	4,999	2,858	17,368
1901	4,617	1,142	323	100	3,825	5,613	4,920	549	21,089
1902	1,319	1,425		288	342	2,537	1,668	190	7,769
1903	1,161	635			182	700	2,342	186	5,206
1904	1,529	817	429	940	432	1,915	2,136	923	9,121
1905	1,186	1,980		202	103	4,140	790	400	8,801
Totals	10,881	7,475	1,229	2,403	6,467	18,938	16,855	5,106	69,354

First Laying. Square Yards.

The amount of new edgestones set and new brick sidewalks paved during the past year, not including "323" streets, is as follows:

2	Edgestones. Linear Feet.	Brick. Square Yards
South Boston, Paving District No. 1	2,049	1,186
East Boston, Paving District No. 2	1,494	1,980
Brighton, Paving District No. 4	1,867	202
West Roxbury, Paving District No. 5	6,056	103
Dorchester, Paving District No. 6	13,548	4,140
Roxbury, Paving District No. 7	1,814	790
City Proper, Paving Districts Nos. 8, 9, 10	4,705	400
Totals	31,533	8,801

#### Output of Stone from City Crushers.

			Crushed Stone. Tons.
Bleiler crusher			33,935.00
Centre street crusher	•		48,593.075
Chestnut Hill avenue crusher			$33,\!575.22$
Codman street crusher .			50,140.05
Columbia road crusher .			54, 418.50
Dimock street crusher	•		6,687.05
Kenney street crusher			5,579.45
Rosseter street crusher .			8,484.20
Total			$241,\!412.54$

### STREET OPENINGS.

Permits have been issued from this office for making openings in the public streets for the year ending January 31, 1906, as follows:

	Permits.	Feet.
American Telephone and Telegraph Company	5	21
Auxiliary Fire Alarm Company	4	195
Barber Asphalt Paving Company	18	5,250
Boston Fire Department	$\tilde{53}$	3,850
Boston Lamp Department	125	2,661
Boston Police Department	39	6,60
Boston Street Department (Sewer Division)	1,185	61,243
Boston Water Department	3,249	99,809
Boston & Albany Railroad Company	2	65
Boston & Maine Railroad Company	5	258
Boston Elevated Railway Company	346	128,401
Boston Low Tension Wire Association	24	1,381
Boston Gas Light Company	185	26,73
Boston Pneumatic Transit Company	4	290
Boston Transit Commission	5	838
Boston, Revere Beach & Lynn Railroad Company.	1	60
Boston Consolidated Gas Company	1,428	78,165
Brookline (Town of)	2	30
Brookline Gas Light Company	121	13,26
Charlestown Gas and Electric Company	125	15,258
Charles River Basin Commission.	1	10
Dorchester Gas Light Company East Boston Gas Light Company	$\frac{150}{241}$	9,239 35,214
Edison Electric Illuminating Company	1,179	
Eastern Cold Storage Company	1,119	62,236 $416$
Jamaica Plain Gas Light Company	51	4,515
Lynn & Boston Railroad Company	10	75
Massachusetts Pipe Line Gas Company	3	120
Massachusetts Telephone and Telegraph Company.	23	2,873
Metropolitan Water and Sewer Commission	2	2,010
New England Telephone and Telegraph Company	-	00
of Massachusetts	436	39,951
Old Colony Street Railway Company	4	3,140
Quincy Market Cold Storage Company	21	1,010
Postal Telegraph and Cable Company	23	389
Roxbury Gas Light Company	64	4,850
outh Boston Gas Light Company	80	5,207
impson Brothers Corporation	35	3,32
standard Oil Company	9	282
Inion Freight Railway Company	5	545
Varren Brothers Company	80	19,549
Vestern Union Telegraph Company	13	96-
liscellaneous permits	2,009	183,258
Emergency permits, Class A	1,195	
Emergency permits returned as used, 1,017, estimated length in feet		4,222
Total.	12,569	826,230

Making a total length of openings of about 156.5 miles.

### CITY DOCUMENT NO. 40.

Permits other than for street openings have been granted as follows:

		Permits.
Advertising by man wearing hat and coat lettered		7
Cleaning snow from roofs		114
Dumping snow in public alleys		90
Driving cattle		15
Erecting, removing and repairing awnings		4,035
Erecting and repairing buildings		8,104
Feeding horses on the streets		653
Moving buildings		17
Loading and unloading goods		162
Pedlers (two classes)		876
Painting signs or notices on obstruction fences .		15
Placing signs flat on buildings	۰.	2,786
Projecting signs and lamps		14
Raising and lowering safes, machinery, etc.		533
Selling fruit, etc., from stands on the sidewalks .		559
Selling goods from areas		22
Selling goods from doors and windows . '.		63
Special permits for June 17, July 4, and other holidays		202
Special permits for various purposes		115
Extension of permits		739
Emergency permits (class B)		471
Total		19,592
Total number of permits for street openings		12,569
Total number of permits for other purposes .	•	19,592
rotal number of permits for other purposes .	·	
Grand total of permits issued		32,161
Grand total of permits issued	•	

#### Bonds.

All bonds (excepting those of responsible corporations) are guaranteed by some one of the surety companies authorized to do business in the State of Massachusetts.

There have been 1,649 bonds cancelled during the year. There are in force 1,341 surety bonds and 71 corporation bonds.

### NOTICES.

There have been 15,137 notices sent to the various foremen during the year directing them to repair defects in the public streets which had been reported to the police, inspectors and others; also 3,500 notices sent to departments, corporations and individuals to repair streets where they had received permits for excavations; also to owners of estates

where coal-holes or sidewalk coverings over areas were defective. Four hundred notices have been sent to departments, corporations and owners of abutting estates at the request of the chief engineer and foremen of the Paving Division calling for various changes on account of street improvements.

Each foreman receives a daily statement of all permits issued the preceding day for street openings in his district. A statement is sent to the Board of Health every Monday of all pedlers' permits issued during the preceding week.

#### INSPECTORS.

With the exception of those required in the office for emergency work the inspectors are still located at the various paving yards. The inspectors report daily by mail to the Permit Office, and on their complaints notices are sent to the proper parties directing repairs to be made, and each inspector is expected to see that these complaints are given proper attention.

There have been other inspectors detailed to serve with, and at the expense of, the various corporations excavating in the streets. These inspectors make a written report daily and weekly on blanks prepared for the purpose.

#### EMERGENCY PERMITS.

The system adopted a few years ago of having reports made on openings under emergency permits still continues, and a great improvement is shown, although there is still opportunity for further improvement in this direction.

### ELECTRIC POLES.

By order of the Board of Aldermen, or at the request of the Wire Commissioner, there have been permits granted for the erection of 268 new, for resetting of 750 old and the removal of 173 poles. Plans showing the location of new poles have been approved by the Superintendent of Streets and placed on file in the Permit Office.

### AREAS AND COAL VAULTS.

Twenty-nine permits for the construction of coal vaults and areas have been issued in compliance with the orders passed by the Board of Aldermen.

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DISTRICTS.	Whole Streets Renumbered.	Part of Streets Numbered.	Estates Num- bered.	Numbers Changed.	Metallic Figures Supplied.
East Boston		14	101	13	211
Charlestown		3	39		112
Boston Proper		3	169	9	304
South Boston	1	7	224	160	709
Dorchester	1	11	514	71	1,193
Roxbury	1	5	159	27	339
West Roxbury		7	153	7	298
Brighton		5	114	3	269
Totals	3	55	1,473	290	3,435

STREET NUMBERING.

### PROPERTY IN CHARGE OF THE DEPUTY SUPERIN-TENDENT OF PAVING DIVISION.

### SOUTH BOSTON.

Columbia road, corner H street, stable, carriage house, shed, tool house and office built by the city on land, containing 12,017 square feet, rented from William H. Hart.

*Columbia road*, corner Hamlin street, lot of land used for storage purposes, containing 6,710 square feet, rented from Charles P. Mooney, agent.

#### EAST BOSTON.

*Chelsea street*, No. 494, wharf property, containing 61,000 square feet, purchased in 1897 from Francis S. Lally. This property is at present not in use.

*East Eagle street*, corner Glendon street, sheds, stable and office building erected by the city on wharf property containing 326,700 square feet, leased in 1900 from Blodgett & Whidden for a term of ten years. This property is used jointly with the Sewer, Sanitary and Street Cleaning Divisions.

#### CHARLESTOWN.

Medford street, foot of Elm street, wharf property, containing . 35,000 square feet, owned by the city. Upon this lot are shed, stable and office buildings.

#### BRIGHTON.

Union street, opposite Shepard street, lot of land, containing 37,000 square feet, owned by the city. This lot is at present not in use.

Chestnut Hill avenue, ledge lot, containing 601,563 square feet, purchased in 1882 by the city. Upon this lot are stone crusher, stable, shed and office buildings.

#### WEST ROXBURY.

*Child street*, lot of land, containing 43,024 square feet, owned by the city. Upon this lot are sheds, stable and office buildings.

Mt. Vernon street, near Pleasant street, lot of land containing 16,275 square feet, belonging to the Schoolhouse Commission and used by this division for storage purposes.

Morton street, near Canterbury street, lot of land containing 14,250 square feet, owned by the city and used for storage purposes.

Rosemary street, lot of land used for storage purposes, containing 3,780 square feet, rented from Edward Cook.

*Centre street*, near Allandale street, ledge lot, leased from Thomas Minton. On this lot are stone crusher, sheds and scales owned by city.

#### DORCHESTER.

Hancock street, opposite Bowdoin street, lot of land known as the almshouse lot, containing 104,132 square feet, belonged to the town of Dorchester at the time of annexation. Upon this land are two stables, a shed and a tool-house.

*Downer avenue*, lot of land, containing 35,300 square feet, was purchased in 1871 to protect the almshouse lot.

Codman street, ledge lot, containing 299,000 square feet, was purchased in 1870. Upon this lot is a shed containing a steam engine and stone crusher, also a stable and tool-house.

Brush Hill road, Milton, lot of land, containing 64,523 square feet, leased May 13, 1843, by the town of Dorchester for a term of 999 years. Lot of land adjoining above, containing 30,000 square feet, owned by the City of Boston. These lots are not now in use.

*Magnolia street*, near Bird street, lot of land, containing 81,068 square feet, was purchased by the town of Dorchester in 1867. This lot is not now in use.

Rosseter street, ledge lot, leased from W. J. Emerson. On this lot are buildings containing stone crusher, sheds and scales owned by the city.

#### ROXBURY.

*Highland street*, lot of land, containing 81,082 square feet, owned by the city. Upon this lot is a large brick stable erected in 1873–74, and used by the sanitary and paving divisions; also a brick building used as a blacksmith shop and a shed for storage purposes.

*Washington street*, corner Dimock street, ledge lot, containing 134,671 square feet, owned by the city. Upon this lot are buildings containing steam engine, stone crusher and scales.

Kenney street, ledge lot, leased from James W. Kenney. On this lot are buildings containing engines, stone crusher, tools, scales, etc., owned by the city.

*Heath street*, ledge lot, leased from Frederick Bleiler. On this lot are buildings containing engines, stone crushers, tools, scales, etc., owned by the city.

#### SOUTH END.

Albany street, opposite Sharon street, wharf lot, containing 89,224 square feet. Upon this lot are stables, office and blacksmith shop, carpenter shop. Wharf lot adjoining above, containing 39,511 square feet, used for storage purposes. Both these wharves are owned by the city.

Massachusetts avenue, near Magazine street, lot of land, containing 317,322 square feet, rented from the City Land Company and used for storage purposes.

Columbia road, near Stanwood street, ledge lot, leased from Samuel G. King *et als*. Upon this lot are buildings containing engines, stone-crushers, scales, etc., owned by the city.

#### BACK BAY.

*Hereford street*, near Boylston street, lot of land, containing 28,020 square feet owned by the city. Upon this land are a stable, shed and office building.

#### NORTH END.

Commercial street, No. 521, wharf lot, containing 22,555 square feet, owned by the city. Upon this lot are a stable, shed and office building.

Atlantic avenue, opposite Oliver street, wharf lot, containing 21,054 square feet, placed in charge of the Paving Division, May 18, 1874. This property is now used by the Sanitary Division.

Atlantic avenue, opposite Oliver street, wharf property, containing 36,460 square feet, leased from J. H. Hecht, on February 19, 1898, for ten years. This lease is held by the Sanitary Division, to which the Paving Division pays for storage purposes the sum of \$5,200 per year.

*Revere street*, wharf lot, containing 20,013 square feet, leased from J. J. Costello, on July 20, 1899, for a term of ten years, for storage purposes. Portion of this lot is used by the Sewer Division.

## APPENDIX D.

## REPORT OF THE DEPUTY SUPERINTENDENT OF THE SANITARY DIVISION.

#### ROOMS 917-920 TREMONT BUILDING, BOSTON, MASS., February 1, 1906.

#### MR. CHARLES LOGUE,

Acting Superintendent of Streets :

DEAR SIR, — I respectfully submit the annual report of the expenditures, income, and operation of the Sanitary Division of the Street Department for the financial year ending January 31, 1906.

This division has charge of the removal of house offal, waste and rubbish, house dirt, and ashes accumulated from burning of material for heating buildings and domestic purposes, and also has charge of the construction and repairs of carriages, carts, wagons, harnesses, etc., of the Street Department and other departments, and the painting of street signs for the Paving Division.

The abnormal increase in cost of collection of material, owing to the difficulty in obtaining suitable dumping places and the dumping places being so remote from the place of collection, presents a serious problem. I recommend the purchase of carts having twice the capacity of those in use at the present time, as this would lessen the time consumed by the long hauls.

I further recommend that additional dumping boats be provided at the South yard on Albany street, and at the Charles River-avenue bridge. This additional equipment will materially aid in the solution of the dumping problem as far as Charlestown, North and West Ends and South End are concerned.

On account of the poor condition of, and the excessive expense incurred in, repairing one of the dumping boats, which has been in the service for over twenty years, I recommend the purchase of a new boat.

## CITY DOCUMENT NO. 40.

The stables at Albany street and at North Grove street are in such poor condition that they require extensive repairing. It is also necessary that they be enlarged to properly accommodate the horses, as many of them, at present, are kept in sheds.

Respectfully submitted,

DANIEL P. SULLIVAN, Acting Deputy Superintendent.

## FINANCIAL STATEMENT.

Amount of appropriation Transferred from reserve fund .	• •	•	\$670,000 7,000	00
Transferred from surplus revenue	• •	•	$26,\!382$	08
Total amount of appropriation			\$703,382	08
Total expenditures of the Sanitary Div ing work done for other divisions				
ments, and paid by them Less amounts paid by other divisions			\$756,762	26
ments	• •	•	53,380	18
Net cost of maintenance, Sanitary Di	vision .	•	\$703,382	08
The second and Devenue on How	n Ding A	orr	W. OFF	
TOTAL COST OF REMOVAL OF HOUS RUBBISH AND HOUS	SE OFFAL.	SH	ES, WASTE	,
Salaries : Deputy Superintendent,	clerks a	ınd		
foremen			\$18,508	
Office supplies and expenses .			3,798	86
Ashes, waste and rubbish account			420,607	90
House offal account	• •	·	217,634	88
CONSTRUCTION, REPAIR AND HOR	SESHOEING			
Account.	SESHOEING			
Foremen			1,396	20
Expended for labor	\$32,971	36	-,	
Expended for stock	16,613			
Expended for stock	10,010	-	49,584	67
Allowed time for holidays Medical attendance and allowed	\$42,095	22	10,001	
time for injured men	$^{3,135}$	75		
			$45,\!230$	97
Total expenditures of the Sanitary D	ivision for	the		
Total experiences of the Scalibary D			\$756 769	26

year ending January 31, 1906 . . . . \$756,762 26

STREET DEPARTMENT - SANITARY DIVISION. 69

Brought forward. . \$756.762 26 . . . . REVENUE RECEIVED FROM OUTSIDE DIVISIONS AND DEPARTMENTS FOR BOARD AND CARE OF HORSES. RENT, USE OF DUMPING BOATS, SHOEING AND FOR REPAIRING VEHICLES, ETC. Bridge Division . \$702 07 . • . County of Suffolk 1,807 74

Lamp Department .	•	•	452 80	
Paving Division	•	•	14,925 10	
O D' . t . t	•		9,172 28	
Street Cleaning Division			25,014 95	
Street Watering Division		•	995 94	
Ferry Division			$329 \ 30$	

53,380 18

\$703,382 08

#### INCOME.

Amount of money deposited and bills presented to the City Collector for material sold and work performed by the Sanitary Division of the Street Department during the year ending January 31, 1906.

#### MONEY DEPOSITED.

From letting of scow privileges For sale of manure						
BILLS D	EPOSI	ITED.				
For removal of engine ashes, ma	•	13,409	53			
					\$16,125	10

Ітемя.	Total amount Expended.	Amount paid by other Divisions.	Amount Charged to Sanitary Division.
Salaries of deputy and clerks	\$9,190 60		@0 100 c0
Salaries of foremen			\$9,190 60
	10,714 38	•••••	10,714 38
Labor, collection and disposition	004050 70	000 100 00	155 004 04
of house dirt and ashes	204,258 76	\$29,163 92	175,094 84
Labor, collection and disposition			
of waste and rubbish	39,129 58	5,097 29	34,032 29
Labor, collection and disposition			
of house offal	144,442 46	12,294 90	132,147 56
Labor and stock in stables and			
yards	49,400 34	4,130 12	45,270 22
Hired teams on ashes, waste and			
rubbish and offal	49,357 50		49,357 50
Contracts on ashes, West Rox-			
bury, North and South Dor-			
chester	17,002 19		17,002 19
Contracts on offal, East Boston,			
Brighton, West Roxbury and			
Dorchester	17,079 98		17,079 98
Ash and offal stock	476 00		476 00
Allowed time snd holidays	42,095 22	886 21	41,209 01
	23,042 24	510 20	22,532 04
Grain			
Hay and straw	21,675 92	1,297 54	20,378 38
Medical attendance and allowed	0 105 77		0 195 55
time on account of injured men,	3,135 75		3,135 75
Horses	16,997 50		16,997 50
Veterinary services and medicine,	6,967 06		6,967 06
Hired horses	5,838 50		5,838 50
Outside care and board of horses,	5,039 10	•••••	5,039 10
Outside horseshoeing, black-			
smith, wheelwright, harness			
and painting	5,776 44		5,776 44
Labor, stock, etc., wheelwright,			
blacksmith, paint, harness and			
horseshoeing shops	49,584 67		49,584 67
Dumping boats, stock, etc	21 74		21 74
Repairs on stables, sheds and		•	
wharves	7,195 71		7,195 71
Fuel	1,293 95		1,293 95
Gas	982 15		982 15
Electric light and power	1,416 19		1,416 19
Printing, stationery, office items			
and incidentals	2,471 26		2,471 26
Advertising	293 34		293 34
Rents	15,136 38		15,136 38
Tolls and fares	1,327 60		1,327 60
Telephones	922 90		922 90
Damages caused by city teams	216 85		216 85
Taxes on Hecht's estate, as per	00		
lease	4,280 00		4,280 00
Totals	\$756,762 26	\$53,380 18	\$703,382 08
2.0000000000000000000000000000000000000		. ,	,

Items of Expenditures and Revenue for the Year 1905.

			Co	ONTRACTORS	' TEAMS.	
CITY FORCE.	Number.	Hired Teams.	North Dorchester.	South Dorchester,	West Roxbury.	Totals.
Inspectors Sub-foremen Teamsters	$21 \\ 12 \\ 126$		····· 7	5	3	21 12 179
Ielpers Fallymen Dumpers	$\begin{array}{c} 129\\13\\42\end{array}$	38 	7	5 	3	182     13     42     42 $ $
Totals	343	76	14	10	6	449

Force Employed on House Dirt and Ashes.

Amount of House Dirt and Ashes Removed.

YEARS.						Number of Loads of 54 Cubic Feet.
1900	House	dir	t and	ashe	s	344,682
1901		"	"	" "		342,940
902		44				313,844
903		44				310,509
904		66	"			325,955
905		" "	"	"		331,545

## Force Employed on Waste and Rubbish.

	Number
Inspectors	5
Teamsters.	14
Helpers	27
Dumpers	1
Totals	47

	NUMBER OF LOADS.			
YEARS.	Paper Cart.	Market Wagon.		
1900 1901	11,452 11,534	5,494 7,791		
1902 1903 1904	$10,201 \\ 8,417 \\ 7,064$	8,297 8,753 9,170		
1905	6,569	10,540		

Amount of Waste and Rubbish Removed.

Force Employed on House Offal.

· · · ·			CONTRACTORS' TEAMS.						
CITY FORCE.	Number.	Hired Teams.	East Boston.	Brighton.	Dorchester.	West Roxbury.	Totals.		
Inspectors Sub-foremen Teamsters Helpers Dumpers	8 4 69 69 3	$\begin{vmatrix} \ldots \\ 2 \\ 2 \\ \ldots \\ \end{matrix}$	6 10	4 5 	5 8	2 3	8 4 88 97 3		
Totals	153	4	16	9	13	5	200		

## Amount of House Offal Removed.

YEARS.	Number of Loads.
1900	$\begin{array}{c} 62,975\\ 66,758\\ 66,287\\ 64,744\\ 64,084\\ 64,803\end{array}$

YEARS.	Waste and Rubbish.	Ashes.	Offal.	Total Loads		
1900	18,460	344,682	62,975	426,117		
1901	19,325	342,940	66,758	429,023		
1902	18,498	313,844	66,287	398,629		
1903	17,170	310,509	64,744	392,423		
1904	16,234	325,955	64,084	406,273		
1905	17,109	331,545	64.803	413,457		

Number of Loads of Material Collected from January 31, 1899, to February 1, 1906.

Material Collected by Districts.

	South Boston.	East Boston.	Charlestown.	Brighton.	West Roxbury.	Dorchester.	Roxbury.	South End and Back Bay.	North and West Ends.	Totals.
House dirt and ashes.	19,991	21,846	20,494	15,038	23,220	31,246	48,816	79,357	71,537	331,545
Waste and rubbish	372		183				554	8,866	7,134	17,109
House offal	4,039	6,414	2,624	2,077	4,066	6,259	8,597	20,217	10,510	64,803
Totals	24,402	28,260	23,301	17,115	27,286	37,505	57,967	108,440	89,181	413,457

# Number of Carts and Wagons Collecting House Dirt and Ashes, Waste, Rubbish and Offal.

					Iron.	Wooden.	Total
Offal y	vagons i	n us	e bv	the Sanitary Division	47	42	69
44	····	6.6		Thomas Mulligan, East Boston		6	6
6.6	**	6 G	66	John Newbury, Brighton		6 6	6
"	" "	"	**	M. Crowne & Co., Dorchester		12	12
**	**	"	64	John Krug, West Roxbury		-3	- 8
To	tals				47	69	116
Ash ea	rts in u	se by	the	Sanitary Division		196	196
44	66 66	••	Jo	nn J. Moore. West Roxbury		3	3
44	** **	* *	Jo	nn D. Lyons, Dorchester		3 5 6	5
64	** **	"	De	nis D. Flynn, Dorchester	· · · · · · · · · j	6	6
то	tal offal	and	asb	carts	47	279	326
Marke	t wagon	s in	use	by the Sanitary Division		23	i
Paper	carts in	use	by t	he Sanitary Division		30	ļ
							53
Ash a	nd offal :	sleds	inι	se by the Sanitary Division			144
							523

Collected	bу "	West Roxbury C North Dorcheste	r "		.17.666	"	of ashes.
" "	"	South "	"		.13,480	"	**
Total .					.39,706	"	"
					'		
~							
Collected	by	East Boston Con	tracto	r	. 6,414	loads of	of offal.
" "		Brighton	٤.		. 2.077	**	of offal.
**		Brighton West Roxbury	"	•••••	. 2,077	**	
**		Brighton West Roxbury	"	•••••	. 2,077	**	66 66
**		Brighton	"	•••••	. 2,077		66 66

## Final Disposition of all Material by the Sanitary Department Collected from January 31, 1905, to February 1, 1906.

Material.	Deposited on Low Lands.	Towed to Sea.	Plant of New Eng- land Sanitary Pro- duct Company.	Collected by Con- tractors.	Plant of City Refuse Utilization Com- pany.	Total Number of Loads of Material disposed of.
House dirt and ashes	243,578	87,967				331,545
Waste and rubbish	1,101				16,008	17,109
House offal			50,053	14,750.		64,803
Cesspool dirt		7,374		·····		7,374
Street sweepings		41,741		·····		41,741
Totals	244,679	137,082	50,053	14,750	16,008	462,572

### Amount Expended for the Collection and Disposition of House Dirt, Ashes, Waste and Rubbish and House Offal by Districts, Including Labor, Stock, Etc.

	DISTRICTS.	Waste and Rubbish.	Ashes.	Offal.	Totals.
1.	South Boston	\$455 00	\$28,381 26	\$14,524 38	\$43,360 64
2.	East Boston		23,629 50	9,938 65	33,568 15
3.	Charlestown	139 00	28,408 94	11,373 51	39,921 45
4.	Brighton		12,949 84	3,476 75	16,426 59
5.	West Roxbury		16,380 38	(8,809 17	25,189 55
6.	Dorchester		17,089 80	7,786 03	24,875 83
7.	Roxbury	1,770 00	78,470 03	32,673 68	112,913 71
8-9.	South End and Back Bay	14,433 50	105,362 02	46,685 18	166,480 70
10.	North and West Ends	9,382 50	72,792 45	26,512 46	108,687 41
11.	Dumping boats	22,827 84	21,026 93	55,388 10	99,242 87
	Cotals	\$49,007 84	\$404,491 15	\$217,167 91	\$670,666 90

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## STREET DEPARTMENT - SANITARY DIVISION. 75

Amount expended for maintenance of the repair and construction shops	\$55,955 43
Income from outside divisions and departments .	21,079 71
Net cost to Sanitary Division	\$34,875 72
Amount expended for new horses	\$16,997 50
Amount received from other divisions for new	
horses	2,880 58
Net cost for new horses by the Sanitary	
Division	\$14,116 92

MAINTENANCE OF FORT HILL WHARF AND DUMPING BOATS.

## Amount Expended.

For towing by department tow- boat	\$6,348	58		
	,			
For towing by hired tow-boats .	625	00		
			\$6,973 5	58
For repairs on wharves and boats,			3,870 4	
For rents	\$13,499	98		
For dumping boat stock and sup-	,			
plies	217	09		
For labor, messengers, crew and				
dumpers	11,728	15		
For holidays and allowed time,				
injured men	773	58		
		-	26,218 8	30
			\$37,062 8	37
		;		=
Number of trips to sea by department		•	. 37	
Number of trips to sea by hired boats			. 1	15
- •				
			38	86
			00	50

Number of scows to sea, 387.

		Price per	CONTRACTS	LACTS.
OBJECT.	CODURACEOFB.	Month.	Commence.	End.
Removal of house dirt and ashes: Part of West Roxbury Part of West Roxbury North Dorchester South Dorchester	John J. Moore. John J. Moore. John D. Lyons. Denis D. Flynn.	<b>\$</b> 225 00 308 33 715 00 416 66	April 10, 1903 April 10, 1905 April 4, 1904 March 12, 1904	April 10, 1905 April 10, 1905 April 4, 1906 March 12, 1906
Removal of house offal: East Boston Brighton Part of West Roxbury Part of West Roxbury Dorchester	Thomas Mulligan John Newbury John Krug John Krug M. Crowne & Co	700 00 216 86 116 66 150 00 365 00	Feb. 23, 1904 May 10, 1904 April 1, 1903 April 1, 1905 June 17, 1904	Feb. 23, 1906 May 10, 1906 April 1, 1905 April 1, 1907 June 17, 1906
Lease of wharf, Atlantic avenue Lease of wharf, Atlantic avenue Disposal of house offal	Middlesex Trust	$\begin{array}{c} 958 & 33\frac{1}{5}\\ 333 & 333\\ 4,366 & 66\frac{3}{5}\\ 458 & 221 \end{array}$	March 1, 1903 July 1, 1900 Nov. 7, 1901	March 1, 1908 July 1, 1905 Jan. 1, 1912 Daor 1, 1908
Removal of dead animals	N. Ward Company	No charge.		

Contracts.

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## STREET DEPARTMENT - SANITARY DIVISION. 77

For work done and material furnished for outside divisions and departments, the different shops received as follows :

Wheelwright	•	. \$4	1,361 64		
Blacksmith shop, South End		. 6	5,858 59		
Blacksmith shop, West End	•		689 57		
Paint shop			1,041 76		
Harness shop		. 1	,852 16		
Horseshoeing shop, South End		. 1	462 25		
Horseshoeing shop, West End		. 1	,813 74		
		-		\$21,079	71

For work done and material furnished for the Sanitary Division, the following amounts were expended by the different shops :

Wheelwright		. \$7,079	70		
Blacksmith shop, South End		. 5,271	<b>74</b>		
Blacksmith shop, West End		. 1,002	62		
Paint shop	•	. 5,908	86		
Harness shop	•	. 6,359			
Horseshoeing shop, South End	•	. 2,845			
Horseshoeing shop, West End	•	. 37	09		
				28,504	96
	_				
Total amount paid out, stock	and	labor, all d	ivi-		
sions and departments .	•	• •		\$49,584	67
Foremen in charge	•				
Allowed time	•	. 3,990	63		
Expended for electric power,	prin	0			
and incidentals	•	. 983	93		- 0
				6,370	76
Total				\$55,955	

#### Cost of Horseshoeing.

	Division Shops.	Outside Shops
Stock	<b>\$2,1</b> 30 45	\$4,591 90
Labor	4,028 30	
~	\$6,158 75	\$4,591 90

•	•			
OBJECT.	Contractors.	Price per Year.	Bills Submitted to City Collector.	Price per Year. Bills Submitted Money Deposited to City Collector.
Manure at South and South Boston Yards J. N. Smith (to March 27) \$1 00 a horse,	J. N. Smith (to March 27)	\$1 00 a horse,	\$18 75	
Manure at South Yard	Peter McConnerty (from March 27) 50 00 per yr	50 00 per yr		\$50 00
Manure at Charlestown and West End Yards. George P. Winn	George P. Winn	1 00 a horse,	117 08	
			\$135 83	\$50 00

CITY DOCUMENT NO. 40.

Material Sold by Contract.

KIND AND STYLE.	Sanitary Division.	Street Cleaning Division.	Sewer Division.	Paving Division.	Street Watering Division.	Central Office.	County of Suffolk.	Lamp Department.	Totals.
New shoes	6,776	2,794	925	265	18	152	123	58	11,111
Bar shoes	155	56	59			4	18	1	293
Leathers	3,325	1,571	419	78	8	12	66	22	5,501
Resets	892	540	156	49		16	53	9	1,715
Pads	159	26	38	68		95	11		397
Springs	12	2	2		2	2			20

#### Horseshoeing for Divisions.

Average cost per shoe, 38 cents.

DETAIL ACCOUNT OF AMOUNT PAID FOR WORK DONE BY THE SANITARY DIVISION FOR OTHER DIVISIONS OF THE STREET DEPARTMENT AND OTHER DEPARTMENTS.

For repair and construction work				\$17,803	72
For horse-shoeing				3,275	99
For use of dumping boats					
For hay, grain, straw, board and care	$\mathbf{of}$	horses		5,819	70
For feeders, watchmen and stablemen				1,866	12
For fuel, light and telephone .				677	68
For board and care of sick horses a	it '	Veterina	ry		
Hospital	•		•	740	00
For rent for use of Litchfield's wharf					00
For new horses				2,880	58
For miscellaneous items		•		979	87
				\$53,380	18

# LAND AND BUILDINGS IN CHARGE OF THE SANITARY DIVISION.

## South Boston Stable. (Leased.)

Wooden two-story stables and sheds, with accommodations for twenty-one horses, located at 317–319 West First street, South Boston. Leased from the T. P. Frost estate.

## East Boston Stable. (Leased.)

The Sanitary Division hires stable accommodation for fifteen horses of the Paving Division. The stable is located at No. 324 East Eagle street, East Boston.

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#### CITY DOCUMENT NO. 40.

#### Charlestown Stable.

Wooden two-story stable with accommodations for twentyfive horses located on Rutherford avenue; lot contains 17,300 square feet of land; stable was built in 1875, costing \$5,083.07; sheds and outbuildings were built in 1879.

#### Brighton.

Accommodations are provided by the Sewer Division at its stable on Western avenue for two horses of the Sanitary Division.

#### Highland Stable.

Brick stable built in 1875, at a cost of \$88,594.13, on the old almshouse lot, Highland street, with accommodations for seventy-two horses. The lot contains 81,082 square feet of land. A part of this stable and adjoining lot is used by the Paving Division. There is an offal shed on this lot, erected in 1875, at a cost of \$1,160.12. It was abandoned on April 1, 1897, and in 1900 part of it was remodelled, and is now used as a carriage house and wash-room.

#### South City Stables, Shops and Sheds.

Situated on Albany street, opposite Newton street. The lot belonged to the city before being used for this purpose, and contains 90,780 square feet of land. The stables and buildings connected therewith are of brick. There are also on the premises five wooden sheds used for storing wagons, etc. The stable is two stories high, with French roof, and has accommodations for one hundred and two horses. Total cost, exclusive of land, \$79,089.23. There is a wooden stable on the lot with accommodations for twenty-three horses. In 1899 a veterinary hospital was built and equipped for the purpose of caring for sick and disabled horses.

Connected with stables are blacksmith, wheelwright, paint and harness-maker's shops, in which wagons, carts, harnesses, etc., used by this and other departments, are constructed and kept in repair, also a horseshoeing shop for shoeing the horses of the department located in this section of the city.

#### West Stables and Sheds.

The stable is of brick, a story and a half high, 128 feet by 50 feet, located on North Grove street; built in 1860 without buildings attached to the same. It has accommodations

## STREET DEPARTMENT --- SANITARY DIVISION.

for forty-five horses. The lot contains about 45,152 square feet of land. There are three one-story wooden stables with accommodations for twenty horses, and a horseshoeing shop established May 11, 1896.

## Fort Hill Wharf.

Containing 21,054 square feet, used as a dumping station for the city's garbage and refuse, and as a mooring place for dumping boats and scows which convey this material to sea and to the plant of the New England Sanitary Product Company. Cost of construction platform and dredging dock, \$6,219.33. There are three Barney dumping boats which are in continual use, and are towed to sea by the department tugboat "Cormorant." A portion of the wharf is used by the Street Cleaning Division as a locker for patrol push-carts, etc., and a part is used by the Paving Division.

## Litchfield's Wharf. (Leased.)

Situated at No. 466 to No. 470 Atlantic avenue, containing about 35,460 square feet. Leased from Jacob H. Hecht, March 1, 1898, for a period of ten years. The property is now owned by the Middlesex Trust. This wharf adjoins Fort Hill Wharf and is occupied in part by the City Refuse Utilization Company for the disposal of waste and rubbish. Also by the New England Sanitary Product Company as a berth for their scows.

## Packard's Wharf. (Leased.)

The use of this property by the Sanitary Division has been discontinued.

## Weighing Shed. (Hired.)

Situated at the corner of Massachusetts avenue and Southampton street. Rented from the Boston Consolidated Gas Company. Lot contains about 2,300 square feet of land.

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CITY DOCUMENT NO. 40.

## APPENDIX E.

# REPORT OF THE DEPUTY SUPERINTENDENT OF THE SEWER DIVISION.

30 TREMONT STREET, BOSTON, MASS., February 1, 1906.

#### MR. CHARLES LOGUE,

Acting Superintendent of Streets:

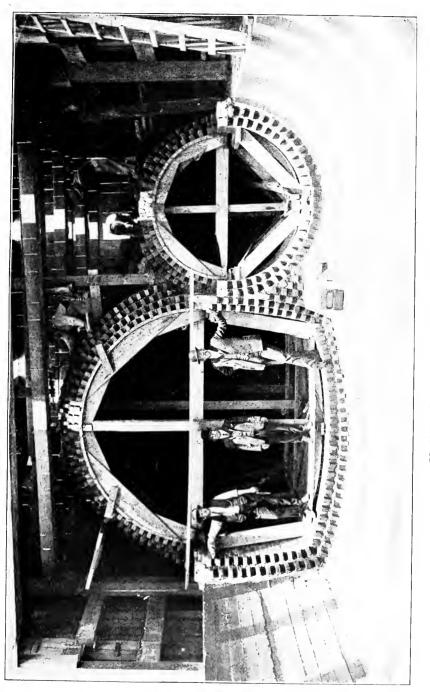
DEAR SIR, — The former Deputy Superintendent of the Sewer Division having resigned and no successor having as yet been appointed, it devolves upon me, as the Acting Deputy Superintendent, to make the annual report. In compliance, therefore, with the revised ordinances, the annual report of the operation and expenses of the Sewer Division of the Street Department for the year 1905 is herewith respectfully submitted, together with the reports of the Assistant Engineers.

Appended to this report are the detailed schedules of sewer construction for the year 1905, and also for the years 1900 to 1904, inclusive, omitted from former reports. The publication now makes the list of schedules complete.

The large and important works required to obviate the deficiencies of the Boston sewer system are as follows:

*First.*— The extension of the Stony Brook conduit and the West Roxbury low level sewer southward from Jamaica Plain.

This conduit is the main channel for the surface water of the Stony Brook valley. The sewer systems of the valley are still mainly upon the combined principle, carrying sewage and storm water in the same channel. The storm water is, therefore, conveyed to the brook through sewers and discharged into it through overflows; consequently sewage is mingled with the brook water during every rain. This must of necessity continue till every sewer system in the valley is converted from the combined to the separate system. A portion of the valley is in the high level or the South Metropolitan district and a portion in the low level or main drainage district. The separation of the sewer systems



FENWAY.--FOUL FLOW CHANNELS, SECTION I.



of the high level portion is mandatory upon the city under chapter 383 of the Acts of 1903, and funds for this work are provided for by this Act; but no such provision is made for the separation of the systems of the low level portion. The only money available for this, as well as for the building of the main conduit itself, is the General Sewerage Loan, provided by chapter 426 of the Acts of 1897. (Amended, Chap. 450 of 1899.)

The separation of the systems of the low level district is now necessitated by the creation of the Charles River basin. The brook, as well as its principal tributaries, must be improved to the Hyde Park line either by building covered conduits or deepened open channels in order to fit them to receive the surface water drains which must be built in each street in the valley. The covered conduit substantially as recommended by the commission of 1886 must certainly be carried to a point a little south of Forest Hills. Beyond this to the Hyde Park line further study may show that a deep open channel, bordered by a strip of land treated as a park. may be constructed at less expense than the heavy masonry conduits planned by the commission of 1886, if the Park Department will co-operate. An attractive water park would be thus created, with no danger of sewage pollution ensuing such as beset the Fenway, because all the surrounding sewer systems, as well as those of Hyde Park, must be later constructed on, or changed to, the separate system. When these improvements to the main channel and tributaries are carried out and the surface drains constructed in each street the Commissioners' channel will be free from sewage pollution.

The cost of the construction of the main conduit and accompanying low level sewer to the brook crossing south of Forest Hills, where such an open channel may be substituted, may be estimated at \$1,150,000. The low level sewer is carried with the conduit, and is designed to afford house sewerage to certain streets and areas which are too low to be drained by the Stony Brook valley sewer, as well as to supplement the capacity of the latter. Its estimated cost is included in that of the conduit. The above estimate, as well as those which follow, are all exclusive of land damages.

Second. — The rebuilding of the old channel of Stony Brook.

The condition of this channel and the recommendation for its rebuilding have been discussed in annual reports for many years. It is not necessary to rehearse these, but it will suffice to say that it is in a dangerous condition, structurally considered, and in the worst possible condition from a sanitary point of view. It is the main channel for surface water for the lower square mile of Stony Brook valley, and must be rebuilt for the purpose of cutting off local sewage pollution and for the purpose of affording a clean main channel for surface water of the tributary surface-water drains which must be constructed throughout this territory.

The sewer systems of this portion of Roxbury are all upon the combined principle, and must all be converted to the separate system in consequence of the building of the Charles River dam and the conversion of the Charles river into a fresh water lake. This impending change in the condition of the Charles River basin has necessitated the change from the combined to the separate system throughout the Stony Brook valley, as well as in the Back Bay. The estimated cost of rebuilding the old channel is \$400,000.

Third. — The rebuilding of the Maywood's Brook sewer system in Roxbury.

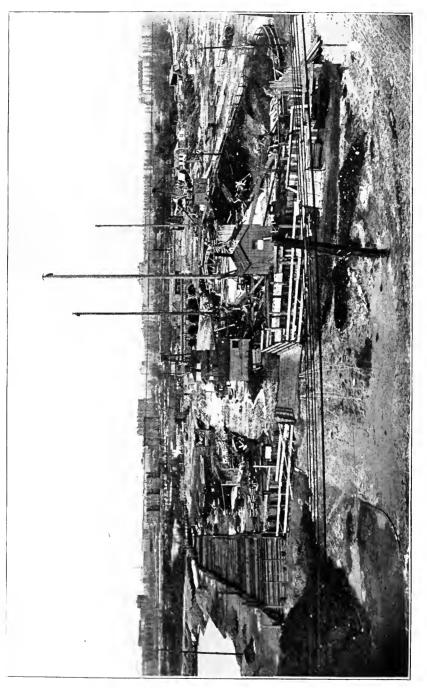
This subject has been treated in detail by Assistant Engineer Bowes in his report on South Roxbury. It consists essentially of the rebuilding upon the separate principle of the main sewer — now a combined sewer — from the junction of Hampshire and Whittier streets through Ruggles street, Shawmut avenue, Washington street, Circuit street, Ray street, Regent street, Dale street, Laurel street, Ottawa and Sherman streets. The sewers of all these streets, particularly the last named and adjacent streets, are all too small, and the abutters have suffered from repeated floodings for many years in the past. This work should be carried on continuously until completed. The estimated cost of the main line is \$308,000 to complete.

Fourth. — The rebuilding of the Dorchester Brook sewer system.

This subject has also been treated in detail by Mr. Bowes in his report on North Dorchester. The work is very similar to that described in the foregoing paragraph, namely, the replacing of the overcharged inadequate combined sewer by main sewers upon the separate system. The construction which has been started in Rockford street should be carried on continuously at least as far as Lawrence avenue. The estimated cost of this improvement is \$168,500.

*Fifth.* — The building of the auxiliary east side intercepting sewer.

This subject has been discussed in former reports. The necessity for it arises from the overcharging of the east side intercepter, with consequent overflows into the docks and the



FENWAY.-GENERAL VIEW OF SECTION 7, FROM HUNTINGTON AVENUE.



backing up of sewage in the Canal-street relief sewer and tributary sewer systems in a large portion of the business section of the city.

Upon consulting the City Engineer, Mr. Jackson, a difference in opinion developed between the Engineering Department and this division, Mr. Jackson claiming that the proper course to pursue was to rebuild all the leaky sewers in the city proper district, and that if this were done there might not be a necessity for building this auxiliary intercepting sewer. I do not agree with the gentleman, but admit that further studies may be profitably prosecuted, and such studies will be made by this division. As there are about seven and one-half miles of old wooden sewers that ought to be rebuilt in the city proper, some idea may be derived of the expense and the length of time required for the alternative scheme proposed by Mr. Jackson. The estimated cost of building the auxiliary intercepter is \$230,000.

Sixth. — The completion of the intercepting system in East Boston.

A considerable portion of the water front of East Boston, namely, on the north and east of the island, the shores of Breed's Island and the East Boston shore of Chelsea creek, still remains unprovided with intercepting sewers, the common sewers discharging into the harbor and upon the flats. Nuisances have resulted, and these intercepting sewers should be built. This involves finishing section 4 of the East Boston low level sewer in Boardman and Saratoga streets, to Bennington street, building section 7 from Butler avenue to Bennington street at Leverett street, and a sewer encircling the northeasterly shore of the island from the above-mentioned sewer to the Moore-street outlet, and also a sewer running from Eagle square along the shore of Chelsea creek to Putnam street. The estimated cost of these intercepting sewers is \$131,000.

Seventh. — The completion of the conversion of the combined to the separate system of sewers in the high level or South Metropolitan district.

During the year just passed 108,240 linear feet, or 20.50 miles, of sewers and surface drains have been constructed in the work of changing to the separate system. In certain districts the work is well advanced.

In the Lauriat avenue district, bounded roughly on the north by Franklin Field, on the east by Milton avenue, on the south by Morton, Norfolk and Walk Hill streets, and on the west by Blue Hill avenue, and containing about 500 acres, the work is 90 per cent. donc. In the Talbot avenue district, bounded roughly by Talbot avenue on the south, Blue Hill avenue on the west, Washington street on the north and Park and Bernard streets on the east, and containing 316 acres, the work is 62 per cent. done.

In the Ruthven street district, bounded by Cobden street, Walnut avenue, Ruthven street, Elm Hill avenue and Seaver street, and containing 76.9 acres, the work is 77 per cent. done.

In the Smith street district, bounded by Tremont, Parker and Ward streets and Huntington avenue, and containing 50 acres, the work is 77 per cent. done.

In the Hemenway street district, bounded by Hemenway, St. Stephen and Boylston streets and Massachusetts avenue, and containing 40 acres, the work is 72 per cent. done.

In an area of 60 acres in Brighton, bounded by the Boston & Albany Railroad, Brooks, Faneuil and Bigelow streets, the work of separation is entirely done.

In total since 1903, 283,694 linear feet, or 53.73 miles, of sewers and surface drains have been built.

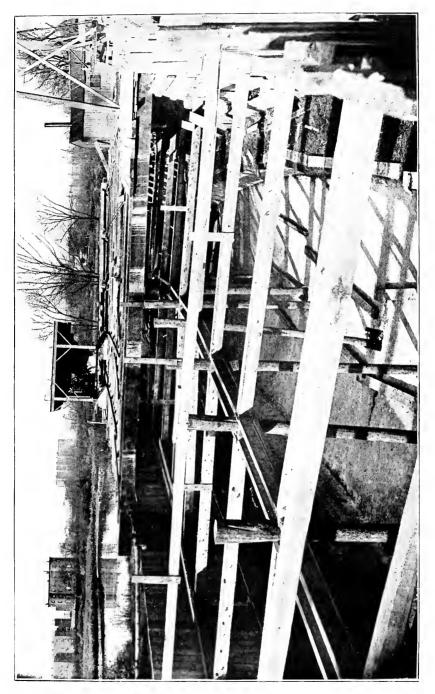
There remain about five and one-half million dollars worth of work to be done in the high level district in affecting the change to the separate system.

*Eighth.* — The conversion of the combined to the separate system in so much of the low level, or main drainage, territory as is tributary to the Charles River basin.

The fact that the Charles River basin is to be converted into a fresh water pond by the building of a full-tide dam to replace the Leverett-street bridge makes it necessary to consider the condition of the sewer system of the territory which is tributary to the Charles river. Part of this territory is included in that of the Metropolitan high level sewer, or the South Metropolitan district, and throughout this district the conversion of combined systems to separate systems has been recognized as a necessity and funds therefor provided by law. But there is a large territory remaining in the Stony Brook valley and in the Back Bay and the slope of Beacon Hill which will remain tributary to the Boston main drainage system, with overflows (provided the system remains a combined one) discharging storm water mingled with sewage into the Charles River basin.

Of this kind of territory there are 1,525 acres in the Stony Brook valley, in the Back Bay and on Beacon Hill.

The quality of sewage pollution carried into the Charles river by these overflows is particularly bad in the Back Bay region and nearly as bad in the lower square mile of Stony





brook, which is tributary to the old channel of Stony brook. This is due to the fact that main sewers are laid at a very flat gradient and consequently accumulate sewage sludge throughout the dry period between rains.

The main sewers of the Back Bay are practically septic tanks. When there has been a long period of dry weather — as often happens in the summer — the accumulation of decomposing sewage is large. When the next rain comes, particularly if it be a violent thunder shower, great masses of this are swept out of the outlets at once, and the overflowing material at that time is many times worse than normal sewage.

The problem of handling this sewage overflow from the Back Bay region and the Stony Brook channels is the principal one raised by the project of building the Charles River dam. At the time of the inception of this scheme, no plan seems to have been seriously considered except that of conveying this material by means of the marginal intercepting conduit to the harbor below the dam, and Mr. Freeman in his report does not seem to have anticipated any evil result from so doing, or at least has laid but little stress upon it; but as the project became developed this aspect of the problem assumed greater importance. The harbor below the dam will be practically a currentless channel, obstructed by thousands of piles supporting the railroad bridges, and to store this great mass of pollution in at a point just below the dam is likely to produce a great nuisance.

The engineers of the Charles River basin are, therefore, confronted by this problem: Whether to dispose of this foul material below the dam or into the basin.

During the year 1903 this department brought up this question before the Charles River Basin Commission, taking the ground that neither of these methods of disposal was satisfactory nor even allowable, and a number of meetings with the commission ensued, at which the matter was discussed. The department claimed that the only rational solution of the problem was to convert the combined systems of sewers into separate systems, whereby the sewage proper from the residence would be taken directly through separate channels to the main drainage system and thence to the outfall at Moon Island, leaving nothing but surface water and street wash to be carried by the old sewer systems (which would then be converted to the surface water portion of the separate system) to the river. There would be then no intermingling of sewage and surface water, and, therefore, no sewage carried over into the basin.

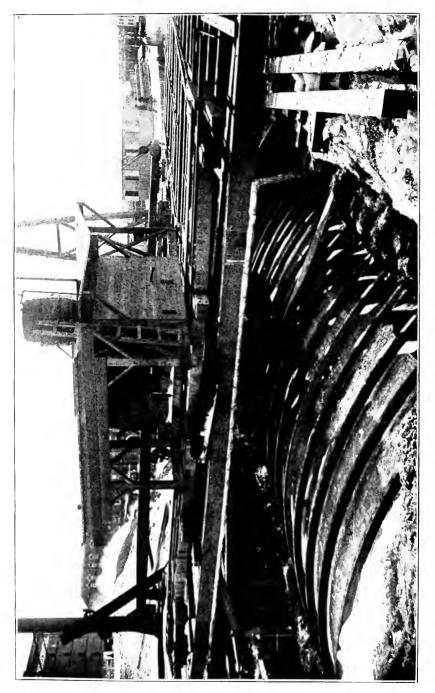
A bill to effect this and to provide a sum of \$500,000 annually for this purpose was introduced into the Legislature, carried up to the governor, and vetoed by him, with the consent of Mayor Collins, as has been related in the annual reports of 1903 and 1904.

The net result of the whole discussion seems to have been a reduction by the commission in the size of the proposed marginal conduit from the 16 feet by 16 feet and 12 feet by 12 feet sizes discussed by Freeman, to a conduit of 7 feet in diameter. The basis upon which this was determined is unknown to me, but probably this size was selected as a size which would convey as much of this foul sewage polluted overflow to the harbor below the dam as it was safe to deposit there, and that the remainder must of necessity go into the basin.

This 7-foot conduit is being built, with numerous side overflows, which will work at grade 8.50, so that as soon as its capacity is exceeded by the combined flow from the Back Bay and Stony brook areas it will discharge its contents into the basin. This arrangement amounts to a direct discharge into the basin in all except the very smallest storms — sewage polluted overflow flowing in at one side of the marginal conduit and out at the other.

A part of the scheme is to store as much of this foul flow as the marginal conduit will hold, and run it back into the Boston main drainage system or the Metropolitan high level sewer system, to be pumped and discharged at either Moon Island or Nut Island.

The reduction in the size of conduit favors the preservation of the purity of the harbor below the dam, but at the expense of introducing more pollution into the basin. The reduction in size also militates against the storage scheme. Comparatively little can be stored in this small conduit. Tt. cannot be drained back into either the Boston main drainage system or the Metropolitan high level until after the storm has ceased, because at the time of the storms these systems will be pretty fully occupied in carrying storm water from their contributary areas. If an attempt is made to store the flow from what promises to be a small storm, and it then develops into a storm somewhat larger than was anticipated, the first flow — which is the foulest — will necessarily have to be discharged into the basin, and all that would be stored would be the comparatively clean afterflow. It is doubtful whether any could be received by the Boston main drainage system, until some time after the cessation of the storm, without endangering the low districts in Boston, namely,





Dover street, Dedham street, Church street and Beach street districts, in which nothing now keeps down the level of water in the sewer systems below the level of cellars during rains at high tide but the open connections into the intercepting system and the pumping at the Cow Pasture pumping station.

The whole arrangement is cumbersome and irrational. It consists, first, in mingling sewage with a great volume of surface water through the operation of the combined system, and then attempting to dispose of it either by sending it below the dam or into the basin.

Neither of these methods of disposal is satisfactory. I see no reason to change from the opinion advanced by this department in 1903, that the only rational solution of the problem is the introduction of the separate system throughout the area tributary to the Charles River basin.

The expense of this change will be very great. Recent estimates by the engineers of this division show that the changes in the sewers only will figure \$2,464,000; if the cost of carrying out connections to the estates be borne by the city (and I think there can be little doubt that it will) the cost will rise to \$3,142,000. It is problematical whether the expense of making changes in plumbing, roof leader connections, etc., on the estates, should be borne by the city or the land-owner, but it seems that, inasmuch as the present arrangements have all been made in compliance with existing laws, and the change required is one inuring to the sanitary benefit of the whole community, rather than one conferring special benefit upon individual estates, this cost also must be borne by the city. The estimate of the cost of making such changes in the plumbing of estates as will be necessary to exclude the roof and yard water from the connections with the sanitary system, and convey this water to the surface drainage portion of the separate system where it cannot otherwise be disposed of (and excluding those cases where the arrangement of the plumbing is such that unusual expense would have to be incurred), is \$1,376,000. This brings the total probable expense to \$4,518,000, or, in round numbers, \$4,500,000.

All these expenses and trouble are entailed by the project of a full-tide dam — a fresh-water basin — instead of a halftide dam with a salt-water basin. If the latter project were substituted for the former almost all these difficulties would immediately disappear, and most of the benefits would still be received — the principal difference being that the basin would not be absolutely free of tidal currents; but a half-tide dam may be so designed and maintained that these currents would be slight as compared to the currents now prevailing under free tidal conditions.

There is no reason, from an engineering point of view, why a half-tide dam cannot be constructed, which should later be converted into a full-tide dam, and the great advantage of this arrangement would be this, that it would give time to the municipalities affected to make these expensive changes in their sewer systems. It is not reasonable to expect such great expenses to be incurred in a very short period of time. It is reasonable, and almost universal practice, when expensive changes of this kind are involved, to so arrange the administration of affairs that the great expenses may be spread over a considerable number of years and the financial burden thereby lessened.

The Charles River Basin Act calls for a full-tide dam. I recommend that it should be amended to the effect that the dam should be constructed as a half-tide dam and should so remain until the sewer systems in the surrounding territory have been put into a condition suitable for the maintenance of a fresh-water basin, or until this work shall have been sufficiently advanced, in the judgment of the State Board of Health, to permit of the complete exclusion of the tide, whereupon the original design shall be completed.

In the discussion of the last two subjects very large expenditures have been mentioned. This division is unfortunate in having these great expenditures forced upon it. Previous to 1897, when the \$1,000,000 loan was passed, the division for many years had been practically starved with insufficient appropriations and the sewer system was in very bad condition. The demands upon it were out of all proportion to the funds that it had had at its disposal. Sewer systems had been enormously extended so that main sewers were overcrowded, floodings of premises and streets were numerous, relief sewers and large surface drains were called for, and the main drainage pumping station was in urgent need of expensive repairs and enlargement.

All this has been largely remedied, and the division was becoming nearly able to meet the demands upon it when, in 1903, the building of the Metropolitan high level sewer imposed the first large and unusual burden upon it in the introduction of the separate system throughout the high level territory.

Now, in addition to this, comes the Charles River basin project, entailing practically as much more of unusual expenditure in the separation of the sewer systems in the low level territory tributary to the Charles river.





These are not burdens which have come as a result of plans or theories of this division. They are burdens entailed by the projects and operations of the State, solely.

The Fenway work is completed. As the cost of this work is under investigation, I will make no comments further than to call attention to the difference between the amount of the work which was actually built and the amount contemplated at the time Mr. J. R. Freeman made his report on the proposed Charles River basin. The work then proposed was to build a gate-house across the open canal at the Huntington entrance to the Fens, at a point about half-way between Huntington avenue and the ornamental bridge then existing in the Fens, and a 12-foot by 12-foot covered channel from this gate-house to Charles river.

On account of the changes in the roadways of the Fens and the exchanges of land agreed upon between the Trustees of the Art Museum and the Park Commissioners, the route for the conduit, or conduits, imposed upon this division by the Park Commissioners, and the condition in which the existing 7-foot by 7-foot wooden covered conduit was found to be, the work actually done was to extend the Commissioners' channel from Huntington avenue to the Fens, build one new gate-house, including sub-structure, with four 8-foot by 12-foot gates, build the sub-structure with three gates of the same size for the old gate-house and move the superstructure of the same over on to it, and build 12-foot by 12-foot and 7-foot by 7-foot covered conduits from the gate-houses to the river.

The dredging of the sewage sludge deposit in the Fens ponds was also interrupted and delayed by changes in plans, the result being that great additional quantities of sludge came down from the Commissioners' channel, where it had been storing for years, and increased the total amount to be pumped out of the Fens ponds to more than double the amount estimated by Mr. Freeman.

Photographs of the Fens work accompany this report and will give some idea of the magnitude of it. As no photographs have been published of this work, I have not confined them to the work of the year last past.

Reports from the assistant engineers of this division, over their own signatures, are hereto appended, together with the usual tabular statements.

Respectfully,

E. S. DORR,

Chief Engineer in Charge of Division.

### CITY DOCUMENT NO. 40.

## HENRY W. SANBORN'S REPORT ON MAIN DRAINAGE WORKS.

## MR. E. S. DORR, Chief Engineer:

DEAR SIR, — Included under this head are: The main and intercepting sewers, Calf Pasture pumping station, outfall sewer, reservoir and discharge sewers at Moon Island, Lyons-street pumping station, and the care of Stony Brook channels.

#### MAIN AND INTERCEPTING SEWERS.

The following data shows the amount of work done in the building, repairing and cleaning of all tide-gates, sumps, overflows and regulators of the sewerage system connecting with the main drainage works, Metropolitan system and Stony brook.

The number of regulators, gates, sumps and overflows to be cared for is as follows, including twenty-one miles of intercepting sewers :

	Gates.	Regulators.	Sumps.	Overflows.
Brighton	43	16	17	23
Charlestown	24	9.	11	12
East Boston	42	15	17	23
City Proper	82	14	38	40
Dorchester	60	2	10	17
South Boston	44	4	17	21
Roxbury	34	1	8	15
Vapor gates	24			
Totals	353	61	* 118	151

The following is an account of work done during 1905, in addition to the regular inspection work:

Sewers clea	aned	•	•	•	- 1,	878 feet.
Number of	new tide-gates built	•			•	3
	" sumps built .			•		<b>2</b>
** **	" overflows built	•		•		$^{2}$
	regulators repaired .	•				45
** **	tide-gates repaired .	•				297
** **	flushing gates repaired				•	20
** **	manholes repaired .					156
	old tide-gates replaced	by ne	w			3
	, , , , , , , , , , , , , , , , , , , ,					330
	loads of sewage matt	er re	emoved	d fro	m	
	tide-gates, sumps and				•	$1,\!246$

The total length of Stony brook water course to be cared for and inspected after each storm is  $6\frac{1}{4}$  miles. The number of loads of material removed from channels during last year was 1,320.

## PUMPING STATION.

The following repairs and renewals have been made :

The air pumps on Nos. 3 and 4 engines have been replaced by Tomlinson condensers. A new suction pipe has been laid from the salt water pumps to the well. Repairs have been made on the high pressure link and a new throttle valve supplied to No. 4 engine. An 8-inch injection pipe, for sewage, for No. 5 engine, and a new steam line to circulating pump, have been installed. Also new boxes for reach rod, No. 1 engine, new spray for Nos. 1 and 2 condensers, new steam drum for No. 3 engine and repairs on the valve chamber, new piston valve in governor of No. 4 engine and new reducing valve for Worthington steam line.

New plungers were put in No. 1 and repairs made on rods and rings. The filth hoist cages were repaired and new chains put on those on the south side. New weighing-out scales were put in the boiler-house. Some new steam piping, with covering, was erected in engine-house. The force mains between the engine-house and pipe chamber, which have been in use over twenty years and showed some leakage, were reinforced with concrete and steel bands. New rafts were put in the deposit sewers.

#### Recommendations.

An independent main steam line to No. 5 pump is greatly needed. With only one steam line for the whole plant, repairs on same can only be made by shutting down the plant, which cannot be done for any length of time.

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#### LYONS-STREET STATION.

This pumping station has been operating satisfactorily, minor repairs only having been necessary.

## MOON ISLAND.

All of the reservoir walls, where necessary, which included the greatest portion of the old part of the reservoir, have been repointed and are now in good condition.

Minor repairs have been made on all the buildings to keep them in proper repair, one of them being reshingled. A new floor was laid in the gate-house at the outlet to replace the old one, which was destroyed by a storm. The mechanism of the tide-gauge was removed from the gate-house at the outlet to a new building that was erected for the purpose.

The old barn at Squantum was jacked up, the floor levelled, new posts and sills placed under same, and a new top floor laid, as the conditions were unsafe.

The fence on both sides of the roadway embankment, on line of taking at Squantum, and around the connection chamber, were renewed and new gates were set up at the entrance to the property.

A new timber floor was laid over the boat chamber. Two heavy ladders were built and set up on each side of the wharf. Three of the upper sewer gates were removed, repaired and replaced, including the necessary bulkheads in the sewer and openings. The old iron gate frame bolts were removed and replaced by new ones of composition, and all wearing parts of the gates and frames were faced with composition, together with new cross-heads and screws for each gate. Three of the lower gates were repaired, the chief items of which were new composition cross-heads, lifting and adjusting screws.

The roadway on the embankment from the reservoir to the connection chamber at Squantum has been resurfaced with 3 inches of binding gravel, and is in good condition.

## Recommendations.

Repairs on the turbine are needed and the recommendations made in the last report should be carried out, namely, the installation of gasolene engine as an auxiliary to the turbine in place of the old steam engine.

The water end of the force pump is badly corroded and should be renewed. The piping in the engine-room leaks in several places and should be renewed; also the piping on the reservoir bottom, which is in very bad condition. The hydrants on this pipe are in good order. The brick ventilators on the discharge sewers should be relaid from the arch up. The stonework at the outlet and portions of the seawall need repointing. Considerable pointing of the brickwork on the long gate-house and at the connection chamber is needed, while the building at the outlet is in such condition that the walls need laying up over again.

The improvement of conditions following the discharge of sewage at Moon Island should receive the attention of the department, and I suggest two methods towards this end which I think it would be well to consider.

Complaints are numerous during the summer season from people using pleasure boats anywhere in the vicinity of the course of the flow of the discharged sewage. The presence of the sewage is apparent to the eye and the knowledge of its being there magnifies the odor of it, and, coupled with the fact that it blackens the paint of the boats that sail through it, makes a condition of things that favor comments and complaints.

Attention has been called to this matter before, in a way, as you will see from an extract which I subjoin from a communication on several subjects sent to the Deputy Superintendent in 1902, soon after his assumption of office :

"When the new pump is installed it will often happen that the reservoir will be filled before time of discharging. At the time these works were designed it was thought that the time might come when the reservoir extensions would cover the whole island. At the time I was constructing the present extension I looked over somewhat the matter of still further extension. While I did not go into the matter very deeply I came to the conclusion that some method other than building more reservoirs would be more economical, and I mentioned to the Superintendent at that time that I thought a scheme of extending the present outlet about 1,000 feet into the harbor and discharging all surplus, above the present reservoir capacity, at as great a depth below the surface as possible, should be thoroughly worked up. This or something else pointing to the same end should be taken in hand or the time may come soon when we can send more sewage to the outlet of the works than we can handle in a manner satisfactory to the Board of Health and the public."

With the outlet extended and so arranged that the discharged could take place along the whole length of the extension, the whole quantity of the discharge, whenever made, could be mingled with the tidal current over a large area and at a considerable depth. This would save the department complaints, if not criticism.

The other idea that it would be well to consider at the same time as the above, which, if feasible, would avoid any extension of the outlet, follows:

At the pumping station the sewage, after passing through the pumps, runs through the deposit sewers, where all the heavy matter is deposited and then removed. If, at this point, chemicals were added to the sewage that would quickly precipitate the organic matter, and allow a comparatively pure effluent to flow on to the reservoir, the department would make a discharge above criticism. The only thing to consider would be, as regards expense of the two methods, whether the cost of this treatment would exceed the interest on the cost of the extension of the outlet, provided the precipitate had no value. I have reason to believe, though, that the deposit in the deposit sewer can be disposed of to advantage. If this precipitation can be accomplished it would not practically increase the present cost of removing the deposits.

I would recommend that some action be taken to test the feasibility of the above idea as soon as convenient.

Respectfully,

HENRY W. SANBORN, Executive Engineer.

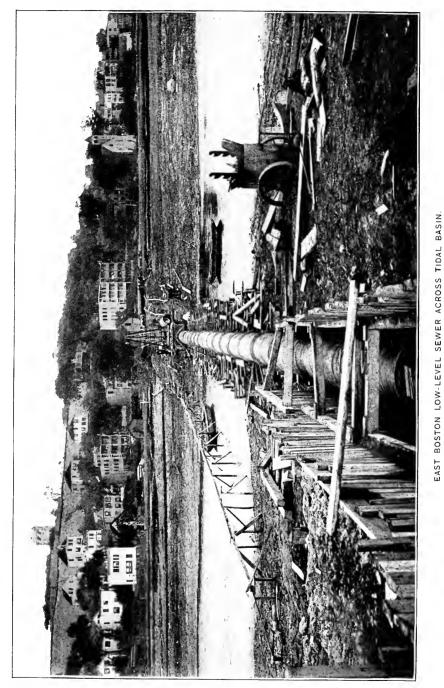
REPORT OF GEORGE W. HAMILTON.

MR. E. S. DORR, Chief Engineer:

DEAR SIR,— The following is my report on the principal work done in the districts under my charge during the year February 1, 1905, to January 31, 1906, together with suggestions for work which it is desirable to do during the coming year:

#### EAST BOSTON.

During the year there have been built:



Between East Boston and Orient Heights.



3,077.84	linear	feet	of	brick sewer.
735.95	"			iron pipe sewer.
3,314.12	"	66	"	earthen pipe sewer.
466.53	"	"	"	concrete surface sewer.
1,609.34	"	""	""	pipe surface drain.

Total, 9,203.78 linear feet.

The most important of this work is the building of sections 2 and 3 of the East Boston low-level sewer from Addison street to Boardman street, and section 4 in Boardman street, as far as Saratoga street — in all about 2,775 linear feet.

Also about 700 linear feet of 24-inch brick sewer for Moore street intercepter, between Trumbull and Saratoga streets.

The Porter-street overflow was extended between Bremen and Frankfort streets, a distance of about 450 feet. This structure was of concrete, 7 feet 6 inches by 4 feet 6 inches and 7 feet 6 inches by 5 feet 9 inches. The work was necessitated by the abolition of grade crossings in this vicinity, and was done by the Boston & Albany Railroad under the supervision of and according to plans furnished by the Sewer Division.

The sewer in Bennington street, between Bremen street and Neptune road, and its outlet to Chelsea street, also the sewer in Curtis street, between Chelsea and Pope streets, have been rebuilt at a lower grade, on account of the abolition of the grade crossings at these streets. This work is being done by order of the Grade Crossing Commission.

#### Suggestions.

The East Boston low level sewer should be connected with the Metropolitan sewer at the pumping station near Chelsea street, and section 5 finished in Saratoga street, between Boardman and Bennington streets. The section between Butler avenue and Leverett avenue, about 2,400 linear feet of 3-foot and 2-foot by 3-foot brick sewer, should be built, thus completing the East Boston low level sewer, which will furnish an outlet for all of the Bennington-street boulevard, between Saratoga street and Leverett avenue.

There is great demand for the completion of Moore-street intercepter, between Saratoga street and Moore street. This will require about 3,800 linear feet of 24-inch and 20-inch sewer, which, when done, will relieve the nuisance at present existing on the flats at the foot of Moore street, and will intercept the sewage from Saratoga and Bennington streets, between Trumbull and Wordsworth streets, which now empties into the flats at Trumbull street.

The separation of the sewerage system at Breed's Island, already begun, should be continued until finished, thus preventing any of the sewage from this section from emptying into tide-water.

It is desirable to build about 2,650 linear feet of 12-inch and 15-inch intercepting sewer to take the sewage from the Putnam and Glendon streets outlets on northerly side of East Boston. These outlets at present empty on to the flats at Chelsea street, and cause a nuisance at low water, particularly during warm weather.

Additional work necessitated by the abolition of grade crossings will be required in Saratoga street, between Chelsea street and Pope street, and at Sumner street and Maverick street, between Bremen street and Orleans street.

#### CHARLESTOWN.

During the year there have been built in this district:

829.52 linear feet of brick sewer. 2,321.68 " " " pipe sewer.

#### Total, 3,151.20 linear feet.

The most important of this is the rebuilding of the sewer in Rutherford avenue, between Tibbets Town Way and Middlesex street.

# Suggestions.

The separation of the Vine street sewer system should be completed, and new sewers built to replace the old wood and brick and wooden sewers in Tibbets Town Way, Essex, Lyndeboro', Middlesex and Dunstable streets.

#### BRIGHTON.

During the year there have been built:

3,496.85 linear feet pipe sewer. 2,191.48 '' '' surface drain. 949.89 '' '' brick surface drain.

Total, 6,638.22 linear feet.

The most important of this is the 949.89 linear feet of 2-foot 6-inch brick surface drain in Allston and Warren

## STREET DEPARTMENT - SEWER DIVISION.

streets, and 693 linear feet of 12-inch pipe surface drain in Sutherland and Lanark roads.

## Suggestions.

There is urgent need for the construction of the Shepard brook conduit from Faneuil Valley brook, near North Beacon street, to Shepard street, a distance of about 5,200 feet. This conduit will relieve the sewers in the area draining down Market street, which are badly overcrowded at every rainfall of any duration. Numerous complaints have been received regarding damages to property, caused by flooded cellars, particularly in the vicinity of Washington, Cambridge and Winship streets. This conduit will vary in size from 6 feet to 3 feet circular, and the estimated cost is \$100,000. This matter has been under discussion for the past twelve years, and takings in private land, between Wool pond and Market street, were made and paid for in 1898, but work of construction has not yet been begun.

It is also desirable to make a start on the construction of the easterly branch of Shepard brook, between Charles river at Western avenue and Murdock street. Profiles, over what is considered the most desirable route, have been made and estimates prepared. The total distance is about 11,000 feet, at approximate cost of \$200,000.

#### WEST ROXBURY.

During the year there have been built in this district:

20,914.60	linear	feet	pipe sewer.
15,353.46	"	"	" surface drain.
1,579.55	"	÷ 6	brick surface drain.
501.00	66	"	" sewer.
517.88	"	"	concrete surface drain.
3,489.16	"	"	pipe house drain.

#### Total, 42,355.65 linear feet.

The most important work done has been the completion of the sewerage systems in Hyde Park avenue to Ashland street, and in Belgrade avenue to Anawan avenue. The starting of the Roslindale brook conduit, between Cohasset and Linden streets, and the connection of the Roslindale main sewer in Washington street with the Metropolitan high level sewer. The last will do away for the present with the overflows into Stony Brook at Forest Hills square and the consequent nuisance caused by them at every rainfall. The Addington road sewer has been completed from Weld street to Maple street, and the extension of the same has been begun and is to be carried to Walker street. This, when completed, will give an outlet for the territory north of Weld street and west of the Brookline line.

#### Suggestions.

Sewers should be provided for the territory draining into Poplar street, between Canterbury and Beech streets. Numerous petitions and requests for these have been received during the past eight years, and also for the area bounded by Canterbury street, New York, New Haven & Hartford Railroad and Grew avenue. The natural outlet for the greater part of this territory is down Dale street, Metropolitan avenue and Grew avenue into the Town of Hyde Park. At the present time this town has no sewers nearer than 1,400 feet to the dividing line between it and Boston, and as far as its own needs are concerned will, probably for many years to come, be under no necessity to build any sewers which might serve as outlets for Boston territory. Should some arrangement be made between the City of Boston and the Town of Hyde Park by which the latter would extend their sewer from Hyde Park avenue across the New York, New Haven & Hartford Railroad, near Clarendon Hills Station, and up Dale street to the dividing line, the City of Boston could drain into such sewer the territory lying between Metropolitan avenue and Hauteville street and to a line about 1,500 feet north of Poplar street. This will give about 90 acres draining into Hyde Park from Dale street at Hyde Park line.

The area east of Metropolitan avenue and bounded by Metropolitan avenue, Poplar street, Grew avenue and Hyde Park line contains about 20 acres and will drain down the valley of the brook, which lies just west of Grew avenue and nearly parallel with it, into Hyde Park territory. This area at present is occupied partly by greenhouses and gardens and is part marsh land, at present containing only three or four houses. It will probably not be developed for several years, and there seems no reason at present to request the Town of Hyde Park to build an outlet for it. If the arrangement with Hyde Park cannot be made, about 60 acres south of Poplar street and west of Grew avenue will remain without proper drainage, but that portion of the drainage area lying north of Poplar street can, by cutting through the summit in Poplar street near Metropolitan avenue, be drained through Poplar street to Canterbury street; thence through Canterbury street and private land to Clifford street; through Clifford street and private land across New York, New Haven & Hartford Railroad to Hyde Park avenue, and in Hyde Park avenue and Canterbury street to Metropolitan high level sewer. The following is an approximate estimate of cost for a sewerage system for this area:

No. 1. On a basis of draining the territory along natural lines, with the larger part having outlet in Hyde Park; and, No. 2, by omitting the area south of Poplar street and forcing the divide near Metropolitan avenue, thus draining into the Metropolitan sewer at Canterbury street, we have:

No. 1a. With outlet down Dale street to Hyde Park line: sewers in Beech street, James street, Cornell street, Poplar street, between Beech street and Summit; Metropolitan avenue, between Burley street and Summit; Burley street and Dale street from Poplar street to Hyde Park line:

#### 8,500 lin. ft. 12-inch pipe sewer; average cost, \$4.50 = \$38,250.00

No. 1b. Having outlet in Hyde Park avenue and Canterbury street to Metropolitan high level sewer: Poplar street, between Summit and Canterbury streets; Canterbury street, between Poplar and Perkins streets; private land from Canterbury street to Clifford street; Clifford street, private land from Clifford street to Hyde Park avenue, near Richards avenue; Hyde Park avenue, between Richards avenue and Canterbury street, and Canterbury street to Metropolitan high level sewer:

4,685 lin. ft. 12-inch and 15-inch pipe sewer; average  $\cos$ , \$4.50  $\pm$  \$21,082.50 Total for entire area = 59,332.50

No. 2. Omitting the area south of Poplar street and cutting through the divide near Metropolitan avenue, we have:

Sewers in Beech street, James street, Cornell street, Poplar street, between Beech and Canterbury streets; Canterbury street, between Poplar and Perkins, private land, from Canterbury street to Clifford street; Clifford street, private land, from Clifford street to Hyde Park avenue, near Richards avenue; Hyde Park avenue, between Richards avenue and Canterbury street, and Canterbury street to Metropolitan high level sewer:

#### 9,885 lin. ft. 12-inch and 15-inch pipe sewer; average cost, \$4.75=\$46,953.75

This gives an estimated cost of about \$2,500 more to drain the territory west of Metropolitan avenue and north of

Poplar street into the high level sewer at foot of Canterbury street than it would to drain it along natural lines into Hyde Park, supposing the outlets were built up to the Hyde Park line.

> The sum total of Schemes 1a and 1b = \$59,332 50 while Scheme No. 2 = 46,953 75

> > a difference of \$12,378 75

This is because the sewerage of Metropolitan avenue, south of Poplar street, Burley street and Dale street is left out of Scheme No. 2.

There is urgent need for the improvement of Roslindale branch of Stony brook, from Linden street to Centre street, in order to afford relief to Roslindale main sewer, which is overcrowded at every heavy rain, and also to afford relief from the flooding caused by surface water in time of storm. The estimated cost for this work for the entire distance is one hundred thousand (100,000) dollars.

A temporary improvement between Linden street and Belgrade avenue is imperative in order to provide an outlet for the surface drains in Belgrade avenue, between Dudley avenue and Anawan avenue. This temporary improvement would consist of a walled channel along the line of what will eventually be the permanent location, and with permanent culverts under all existing streets. The estimated cost for this is about twenty-five thousand (25,000) dollars.

Many complaints are received each year regarding conditions along Florence-street brook, between West Roxbury playground and Poplar street. The sewers of this section have been in great part designed on the separate system, and there is no proper outlet for surface water. The brook itself, or what remains of it, stands in stagnant pools in dry weather, and is a source of annoyance to residents in the vicinity.

At the upper end, at Poplar street, the brook flows on to the streets, and running down the gutter is carried into the sewer. In time of storm the sewer is overcrowded and the water overflows the street, runs into yards, and becomes a nuisance to the entire neighborhood.

Taking plans have been prepared for this, but takings have only been made for the lower part, between Florence street and Ridge street. The entire length to be built is 4,000 feet of 5 feet 9 inches, 5 feet, 4 feet 6 inches, 4 feet and 3 feet 6 inches conduit. The estimated cost is sixty thousand (60,000) dollars. The lower 800 feet, lying in an accepted street, and in a taking already made, can be started at any time.

The area bounded by Cass, Centre, Baker and Spring streets is in a wretched condition from a sanitary standpoint, and several requests have been made for a sewer to relieve this territory. The natural outlet for such sewer is down the valley of Spring-street brook to the Metropolitan sewer, a distance of about 3,200 feet, at a probable cost of twentythree thousand (23,000) dollars.

This outlet will lie in land at present totally undeveloped, but if built would afford an outlet for sewers which at present would receive the drainage of some 40 houses.

A sewer is also desired in Spring street, between Metropolitan sewer and Baker street, a distance of about 2,400 feet. This street and streets leading from it at present contain about 35 houses.

It will be necessary in the near future to make a radical change in the existing sewerage system of the area bounded by Chestnut street, Boylston street, Centre street, and divide line about 400 feet west of Spring Park avenue. The sewers of this territory are on the combined system, and are utterly inadequate to carry away the storm water brought to them in time of heavy rain, without first flooding numerous Back water traps placed on the house drains serve cellars. to some extent to remedy this trouble, but they require constant watching and are a source of considerable care and trouble. When these sewers were built they were of sufficient size to meet all requirements, but with the development of the drainage area a change to the separate system becomes necessary. There are two ways in which this may be done : Either build a system of surface drains in the streets having the present sewers to carry only house sewage, or retain the present sewers, when practicable, to carry the storm water and lay a new system of pipe sewers, when necessary, to carry only house sewage. The latter course will probably be far the cheaper and much more satisfactory. In this case it would be necessary to disconnect all roof water leaders from the house drains and connect them with the surface drains. It is also desirable to separate the systems draining into Boylston street, between Stony brook and Washington street, and in Brookside avenue between Boylston street and Green street.

In May, 1905, the Roslindale main sewer in Washington street was connected with the Metropolitan high level sewer by special permission from the Metropolitan Water and Sewerage Board, and with the understanding that within five years or less the sewers now connected with it would be changed to separate systems sewers and those to be built after the connection was made should be on the same basis. Part of this agreement would be carried out by building the Roslindale brook conduit, as above mentioned, with surface drains in the various streets. The remainder of the area to be considered lies north and east of the New York, New Haven & Hartford Railroad and south of Centre street. The surface water from this will flow into the Arundel-street brook. This should have a covered channel from Birch street to culvert under Belgrade avenue and from covered channel at Roberts street to and across South street, Farquhar street and Hewlett street, a distance of about 1,600 feet at an estimated cost of about \$20,000.

The area bounded by Williams street, Forest Hills street, Lotus street, and Plainfield street lies considerably below the surface of these streets, and is now being rapidly filled in. Two watercourses flow down from Franklin Park through this land, and are taken into a conduit built part way up Williams street. This conduit should be completed up Williams street to Forest Hills street to intercept the easterly branch where it crosses that street, and another built up Keyes street to take the westerly brook at the crossing of Keyes street. At the present time the natural channels are being encroached upon by the filling, and in time of storm the brooks overflow their banks and flood the cellars in the vicinity.

Yours respectfully,

GEORGE W. HAMILTON, District Engineer.

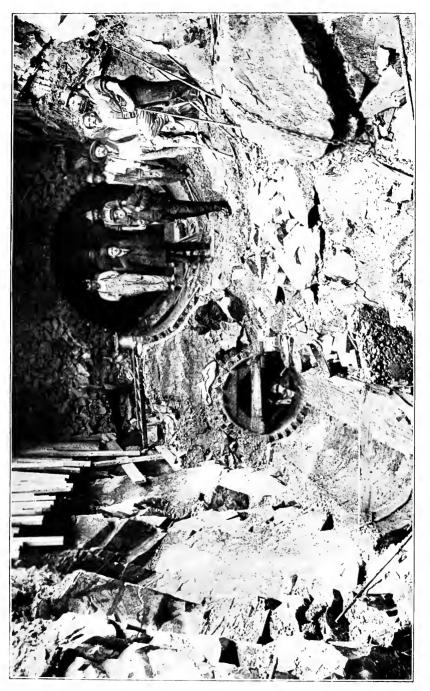
## REPORT OF EDWARD F. MURPHY.

## MR. E. S. DORR,

Chief Engineer :

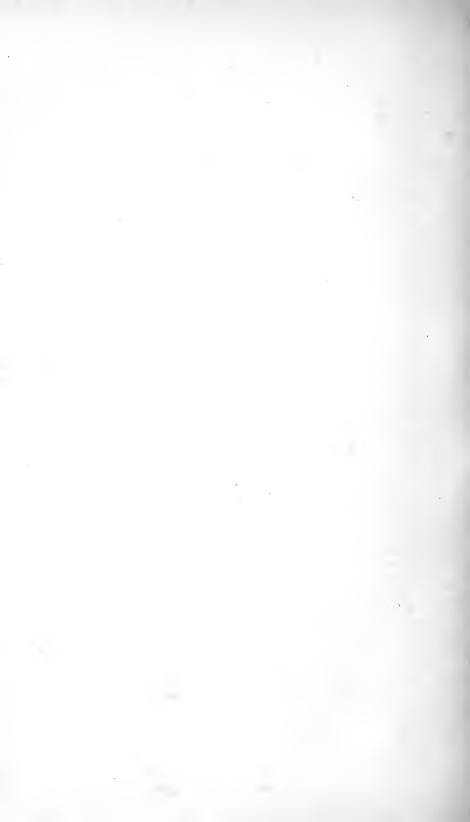
DEAR SIR, — The following is a statement of the lengths of sewer and surface drains built in South Dorchester from February 1, 1905, to January 31, 1906, with a list of the most important work done, general comments and recommendations for future work:

During the year there have been built in this district 4,753.53 linear feet of pipe sewer, 1,726 linear feet of brick



CANTERBURY BRANCH OF STONY BROOK, AND TALBOT AVENUE BRANCH HIGH-LEVEL INTERCEPTER.

Between Blue Hill Avenue and Don Street.



sewer, 32,617.89 linear feet of pipe surface drain, and 1,299.50 linear feet of brick surface drain, making a total of 40,396.92 linear feet, or 7.65 miles.

Attached to this report you will find a list of streets, with length and sizes of sewers and surface drains constructed in the district.

The most important work started during the past year was the building of 1,675 linear feet of 4-foot 3-inch brick sewer on the Talbot-avenue high level sewer, between Morton and Don streets, and the construction of 980.50 linear feet of 10-foot by 8-foot 6-inch brick conduit for the improvement of Canterbury branch of Stony brook, between Harvard and Don streets. These two channels from Harvard street to Don street were carried in the same trench and was necessarily a very expensive job on account of the large amount of ledge encountered.

We have also advertised the remaining section on the Talbot-avenue sewer, between Don street and Lyons-street pumping station. This will be a tunnel section through private land, and at this date we can state that all work on the Talbot-avenue high level sewer as far as the pumping station is under construction or advertised to be constructed during the coming year. This improvement will do away with the Lyons-street pumping station and take out the sewage from about 450 acres from the Talbot-avenue sewer, which has been a source of many complaints and suits against the city.

On the Dorchester high level sewer the connection with the Metropolitan high level sewer at the Hyde Park line was made, which will allow drainage for houses on River street, between Mattapan square and the Hyde Park line, as we had already built a 4-foot 9-inch circular brick sewer between these points without an outlet.

On account of the question of routes between Fremont street (the end of the present work) and Board of Survey street No. 516, this section was omitted, and from the above street No. 516 to Groveland street, a distance of about 2,000 feet, a section was advertised and let, but as yet no start has been made on the same.

A start on the improvement of Tenean creek, between Mill and Park streets, was made, and 122 linear feet of 14-foot by 12-foot brick conduit was built to date. This work has been repeatedly called for by petitions and delegations from the property owners in this vicinity, and will abate a long standing nuisance.

The building of house sewers in Ashmont and Adams

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streets, between Elm place and Wrentham street, the houses on which formerly drained into the South branch of Tenean creek, thereby removing a part of the pollution to the main channel, is also worthy of mention.

On Freeport street, between the Dorchester intercepting sewer and Neponset avenue, the house sewer was built, which will afford drainage for twelve houses that formerly drained on to the marsh in the rear and caused many complaints from the Board of Health.

Sewers were built in Boutwell, Groveland, Harvard, Hollingsworth, Richmond, River and Walk Hill streets, all of this work having been repeatedly called for by petition.

As provided for by the Separate Systems Act, many streets in which sewers were overcrowded by reason of catch-basins being connected with the same, received our attention, and about 33,000 linear feet of pipe surface drains were built.

The extension of the surface drain in Sturbridge and Sanford streets was also made. This improvement will do away with the many floodings of cellars we have had in this district in the past.

The contract for the building of the sewer in Norwood street was advertised and let, but no start has been made on the same. This sewer has been petitioned for many times and is a much needed public improvement.

On River street, between Mattapan square and the Hyde Park line, a complete system of catch-basins, surface drains and catch-basin drains was built, which will allow the street to be put in good condition for public travel.

#### Suggestions.

The most important work contemplated in South Dorchester for the coming year is the extension of the Dorchester high level sewer from the end of the present work contracted for to Meeting House Hill. The choice of lines for this extension is one of great variation and should receive our earliest attention, especially the portion between the end of completed work at Fremont street and the portion now under contract. This is a question of raising the present grade of River street, or extensive rock cutting through private land to the north.

On the Talbot-avenue high level sewer the extension from the Lyons-street pumping station to Talbot avenue is worthy of consideration, as this will provide an outlet for rebuilding the Talbot-avenue sewer at a lower and more satisfactory grade. The Oakland Brook channel, on which we have spent so much money on the upper end, should be extended from the New York, New Haven & Hartford Railroad to the existing covered channel, and from River street to the Neponset river. As it is to-day we have a large conduit without a suitable outlet.

On the Davenport brook, between Adams and Van Winkle streets, the old channel is in a very unsatisfactory condition, and as we have had petitions and complaints, and are also threatened with suits on account of the floodings, I think it advisable to give this matter our earliest attention.

The pollution of Tenean creek in Christopher street, by reason of houses on this street draining into the storm water conduit, and the sewage being carried to the tidal creek below, thereby causing a nuisance, should be attended to this coming year.

Respectfully,

EDWARD F. MURPHY, District Engineer.

REPORT OF THOMAS F. BOWES.

MR. E. S. DORR, Chief Engineer:

DEAR SIR, — There have been built in this district during the past year:

NORTH DORCHESTER.

3,025.50 linear feet pipe house sewer. 14,476.63 '' '' surface drain.

Total, 17,502.13 linear feet = 3.31 miles.

The principal items of construction are: Dorchester brook sewer in Rockford street, Brook avenue and Brook-avenue place. This very important work, which consists of the entire rebuilding of the main Dorchester brook sewer on the separate system, has just been started, a contract having been let for about 1,200 linear feet of this sewer. This has been petitioned for for many years by residents in the vicinity of the Hugh O'Brien School, and will not only give better drainage and relieve the flooding of cellars, so common here, but will provide an adequate outlet for the upper regions on this line, which are badly in need of some relief.

Pipe house sewers have been built in Church street, Hamilton street, between Coleman street and Bowdoin street, Prescott place and in private land between Columbia road and Moseley street.

Private parties have built from city plans, and under city supervision, sewers in Cameron street, Doris-street extension, Gardner avenue, Glynn street, Kingsdale street and Norton street.

A large number of pipe surface drains have been built in the high level area, especially in those streets where small pipe sewers carry the combined sewage and storm water flow. Much of this work has been done in districts where the small lateral sewers were overcrowded in time of storm and where ultimately it will be necessary to effect the entire separation of storm water from the sanitary sewers.

The Harvard street district has been completed on these lines already, with the result that flooded cellars, formerly so common here, are now entirely free from this trouble, and nearly all the storm water from an area of 150 acres is carried to the storm water drain in Franklin Field instead of being carried by the common sewers to Calf Pasture Pumping Station.

#### Recommendations.

Freeport-street brook. — A portion of this brook course, between High street and Bowdoin street, is the only piece of uncovered channel between the source at the junction of Hancock street and Columbia road and the outlet on the tidal marsh below Dorchester avenue at Freeport street. The conduit should be constructed as soon as possible, not only to provide an adequate outlet for the proposed drain in Bowdoin street, but to get the full benefit of large storm drains built on this line above this point.

Bowdoin street. — This work involves the building of a storm drain heretofore called the Coleman-street branch of the Freeport-street brook, from the main line just mentioned, through Bowdoin street, Draper court, private land, Hendry street and Coleman street to Quincy street. This has been recommended for several years past, and as conditions have fast been growing worse, owing to extensive building in this territory, it is absolutely necessary that this line of sewer be rebuilt in the near future.

## STRBET DEPARTMENT - SEWER DIVISION.

Tenean creek, between Westville street and Speedwell street. This old watercourse takes the surface drainage from an extensive, well built up territory, and is the source of very great nuisance. No single piece of work in Dorchester demands the attention of the department more than this, but considering that most of the line passes through private property releases are difficult to obtain, consequently the expense is great.

Dorchester-brook sewer. - As mentioned before, start has been made in the work of rebuilding this line of sewer. territory from which the greatest number of complaints come, however, is near the junction of Lawrence avenue and Blue Hill avenue, but as this is so far above the point at which present construction is in progress, no sign of relief can be afforded property owners on Intervale street, Otisfield street, Gannett street, Holborn street, Lawrence avenue, and other streets, unless a large section of this sewer is built every year until Lawrence avenue is reached. The growth of this section of Dorchester has been very great during the past ten years, and the old main trunk sewer has become entirely too small to handle the storm flow.

Dorchester high level sewer. - This sewer which is now in progress in South Dorchester will eventually be carried into this district, but not until the lower sections have been built, which will give time for study of the most available route.

Oakland Garden fork of Canterbury branch of Stony brook. - This brook course has its source at the junction of Blue Hill avenue and Seaver street, and has been built as a covered channel of various sizes through Seaver street, Columbia road, Hewins street, across private land, Erie street, Elmo street, Fowler street and Greenwood street, to a point near Harvard street. The remaining portion in Harvard street, Standish street, West Park street, and Bernard street to Franklin Field should be constructed in the near This channel will then take the proposed drain in future. Kilton street, also Faxon street, between Kilton street and Washington street, and give adequate relief to the low-lying district between Mt. Bowdoin and Harvard-street railroad station.

Dudley-street Railroad Crossing. — The proposed abolition of this grade crossing makes necessary the study of a plan for rearranging the system at this point. As it is proposed by the department to eventually introduce the separate system into this district, a brick surface drain, together with pipe-house sewer, will be necessary in Dudley street, from

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Humphrey street to Magnolia street. The foundation for the piers of the new overhead bridge will cut off the present sewer, so that some other arrangement will be necessary to carry on this work in connection with the work on the piers.

Shamrock-street outlet. — This outlet will have to be extended from its present terminus on the land of Neil McNeil to the open culvert under the New York, New Haven & Hartford Railroad, owing to the land on both sides of the channel being filled in. This has been called for in previous reports, and undoubtedly something would have been done the past year but for the fact that a land taking is necessary, and the owners have no definite plan for the laying out of this property.

House sewers should be constructed in Kimball street, Dorchester avenue, between Kimball street and Linden street, Edison green, both sides, between Dorchester avenue and Pond street, Baker court, Vaughan street, Clayton street, connection with interceptor at Greenwich place, Payson avenue, Olney street, DeWolf street.

Surface drains should be constructed in Longfellow street, Topliff street, Speedwell street, Leonard street, Granger street, Dickens street, Greenwich street, Fenton street, Homes avenue, Franklin Park brook, between Harvard street and Blue Hill avenue, and Marlowe street.

#### SOUTH ROXBURY.

There have been built in this district during the past year:

4,252.29	linear	feet	pipe sewer.
681.76	"	"	brick surface drain.
16,318.24	"	6.6	pipe surface drain.

Total, 21,252.29 linear feet = 4.03 miles.

The principal items of construction are:

Maywood's brook conduit in Ruggles street. — The work has been under construction during the entire year. Progress has been as rapid as is commensurate with such heavy work and in such a locality. Borings made on this street showed that a soft stratum of peat underlaid the whole territory, and at Ruggles street and Westminster street this layer was 27 feet thick. Buildings all along the line of this work showed unmistakably that much settlement had taken place, and great care had to be exercised to prevent any further movement of these buildings. It was anticipated that numerous claims for damages to buildings would arise from the construction of this sewer, and to safeguard the interests of the city a careful personal examination by an expert builder was made of the interior and exterior of every building on the street. Photographs and minute measurements were taken by the engineers of every structural defect, and all carefully preserved for future reference. An accurate set of levels was run, and marks or tell-tales placed on each of these buildings, and subsequent levels have been taken during the progress and after the completion of the work to note any movement of the same, but no noticeable change has taken place. The results of these precautions and extra labor has already proved of considerable value in view of the fact that the several claims presented by abuttors have been entirely contradictory to the evidence in the city's The section of our open trench shows that five possession. different macadam roadways had been built here, one over the other, since the street was first opened for travel, and so great has been the settlement of the surface that the roadway was found 1.50 feet below the established grade. All the construction here has been upon the separate system a 24-inch pipe sewer on the north side, an 18-inch pipe sewer on the south side, and a 11-foot by 7-foot 6-inch brick surface drain in the centre of the street. These pipe sewers laid at a very low elevation give adequate drainage for all the low cellars in the immediate district, while the large surface drain will ultimately carry the storm water from about 350 acres in Roxbury and deliver the same to the old Stony brook channel in Whittier street at the corner of Hampshire street.

Hammond street. — This work was carried on from last year and completed to Shawmut avenue. Satisfactory drainage has now been afforded the low cellars formerly flooded during every heavy rain.

Sewers have also been built in Beech Glen street, Bower street, Elm Hill avenue, Hartwell street, Howland street, Munroe street and Sherman street. Separate systems of drainage have been installed in Alaska street, Aspen street, Bower street, Brookledge street, Cheney street, Devon street, Elmore street and many others.

These small surface drains were built mostly throughout the high portion of the high level area in Roxbury, so that catch basins could immediately be taken out of the common sewer and at the same time provide a separate outlet or drain for roof water leaders. In this way all new buildings constructed on any of these streets had the separate drainage installed at the outset in accordance with the State requirements.

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Most of these streets have small pipe house sewers, which had to carry the combined flow from the streets, roofs, sinks and toilets, and as a rule were not designed to take all this flow.

The additional catch basins built in recent years instead of being taken into storm sewers had to be taken into the small house sewers, as there were no other drains to take them. Consequently the storm water falling upon the roofs, yards and streets was all conveyed to the main interceptors, and thence to the pumping station. In some portions of Roxbury the same is true to-day, notwithstanding the fact that the surface drains have been built in many small streets, owing to main drain not having been carried up from the lower territory to take all the flow separately from these drains and convey the same directly to tide-water.

Wherever this separation has been effected in lateral streets and not in main streets, advantage has been taken of the fact that in many cases the present sewers in main streets are or will be large enough to act as surface drains when the separation is complete. Therefore, instead of building surface drains in streets where the existing sewers are large enough for storm drains, new pipe sanitary sewers will be constructed at a lower elevation.

## Recommendations.

Old channel of Stony brook. — This channel, while plenty large in places, needs rebuilding badly. Attention has been called to its condition many times in recent years, and numerous cave-ins have caused a great many repairs. It may be found impossible to do any work upon the upper end of the line the coming year, as expense will be very heavy, but a comprehensive plan for the construction of this channel, together with the various complicated details to be met with at the various street and sewer crossings, is under way.

Maywood's brook conduit.— This conduit is now completed from the junction of Hampshire and Whittier streets, through Hampshire and Ruggles streets, nearly to Shawmut avenue. Work should be pushed forward up Shawmut avenue, at least to Vernon street. Here the old 3-foot 6-inch by 5-foot 6-inch brick sewer which is now carrying all the flow from the higher portion of Roxbury is met with, and a large overflow can be established for the relief of this line. It will then be possible to skip a portion of this trunk sewer and pick up the reconstruction again at the corner of Washington and Circuit streets. The section from here through Circuit street, private land, Ray, Regent, Dale,

## STREET DEPARTMENT - SEWER DIVISION.

Laurel. Ottawa and Sherman streets should be started as soon as possible. This work was started in Circuit street in April, 1904, but was stopped on account of the land takings necessary and the very heavy expense. If this construction had proceeded the abutters on Laurel, Ottawa, Sherman and Lansing streets would now be relieved of the great nuisance of flooded cellars from which they have suffered many years, and the small lateral surface drains all picked up, and the storm water system made practically complete. The serious drawback in the way of a complete separation lies in the fact that though the large storm drains be built, a large percentage of storm water will for a long time reach the sanitary sewer from the roofs and yards. This will crowd the small sanitary sewers to such an extent that the overflows in the Stony brook will be in operation during every heavy storm, something which the department is strenuously trying to avoid. The only recourse the city has is to compel each property owner to connect his soil pipe with the sanitary sewer and the roof and yard water leaders into the storm drains as construction progresses. As this proposition may sound all right for theory, in actual practice, I think, it will be found well-nigh impossible to effect the separation for several years after the system is installed. A portion of the Roxbury high level sewer will have to be built in connection with this work, and the best route to be adopted for the same is still in doubt.

Roxbury high level sewer. - Construction has yet to be started on this line, having been postponed for several reasons, the actual necessity of this sewer not being so great as in the case of the Talbot-avenue high level sewer and the Dorchester high level sewer; these have taken preference. The line is also a difficult one to locate and an expensive one to build, while the advantages to be gained for the general system of drainage are slight in comparison with the two former sewers. This sewer must be built, however, and the separate system established throughout the entire area which it drains, if the pollution is to be removed from the channel at Stony brook and the pumping station relieved of the expense of handling such an enormous amount of storm water. The fact that a portion of this sewer will have to be built in Dale street, together with the Maywood's brook conduit spoken of above, complicates the problem and delays the construction of the latter conduit. While the Maywood's brook conduit is imperatively needed in Dale street, the high level sewer is not, but for cheapness and simplicity of construction they should be built at the same time in the same . trench. To do this without first building the outlet for the

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high level sewer, from Dale street to the corner of Boylston avenue and Centre street, Jamaica Plain, would leave a stretch of sewer in Dale street unused until such time as the outlet should be built, thus inviting the criticisms of the general public. Meanwhile the residents along the streets previously mentioned must suffer from the poor system of drainage.

Cabot-street intercepter. — This intercepter above Ruggles street has always been overcharged in time of storm, with the result that it has backed up through its connections with common sewers, and has probably contributed greatly to the pollution of the old Stony brook channel in Whittier street. The large regulator on this line at the corner of Cabot and Ruggles streets, which was installed when the intercepter was built, had a point of cut-off so low that the portion of the intercepter above this point carried only little sewage. even in dry weather. The Stony Brook valley sewer, which enters this intercepter at Elmwood street, brought down enough flow to entirely fill the intercepter, even if the latter were free to carry it, and not being able to escape this way, the flow was naturally diverted into Stony brook through the overflow near the Boston Belting Company. This brings up the question of the rebuilding of ----

The Elmwood-street overflow. — This should be rebuilt of a larger size to take the storm flow from the immense area drained by the Stony Brook valley sewer.

Fenner-street surface drain. — This is a surface drain designed to connect the large surface drain in Washington street, near Cobden street, with the surface drain in Walnut avenue at Cobden street, and relieve the sewers and drains in the so-called Ruthven street district, together with the flooded cellars on Cobden street.

Sewers should also be constructed in Westminster, Warwick, Sussex, Sterling, Winslow, Eustis, Chadwick, Fellows, Williams and Cabot streets and Willow park.

#### SOUTH BOSTON.

There have been built in this district during the past year:

245.50	linear	feet	brick sewer.
4,158.43	"	"	pipe sewer.
1,812.71	" "	"	brick surface drain.
807.20	"	" "	pipe surface drain.

Total, 7,023.84 linear feet = 1.33 miles.

The principal items of construction are:

#### STREET DEPARTMENT - SEWER DIVISION. 115

A street, between Binford street and Congress street. --Work has been carried on here throughout the year upon a new system of sewers and surface drains designed to take the sewage, in place of the broken down and inadequate old wooden sewer built here in 1879, and earry the storm water directly into Fort Point channel. This has been a very slow and expensive piece of construction, owing to the fact that the sewer and surface drain had to be earried along in the same trench on a platform with pile foundation. The heavy flow coming from the old sewer, which drains all the area between Fort Point channel and the New York, New Haven & Hartford Railroad, had to be taken care of, and as the elevation of the new house sewer is about the same as that of the old sewer, this was a serious handicap. In addition, all the old drop inlets on the easterly side of the street were converted into regular size eatch-basins and connected with the surface drain. Likewise all old drains encountered, which were found not to carry sewage, were connected with the surface drain. The portion of the trench under the Summerstreet bridge, which is 100 feet wide, had to be excavated by special machine. The pile driving for this section also presented a problem, as the elear headroom under the bridge is but 15.60 feet, thus preventing the use of the ordinary derriek with sliding hammer. Concrete piles were decided upon to take the place of the wooden piles, and these were constructed as follows. A 10-ineh iron pipe was first driven well into hard bottom by means of a hammer worked by hand, through the limited space under the bridge girders. The interior eore of gravel, mud, oyster shells and general filling was then drilled by hand power and washed up with ordinary fire hose attached to a city hydrant. When the pipe was eonsidered elear, a testing ring 9 inches in diameter, consisting of an iron ring, in the centre of which was a 4-inch by 6-inch wooden timber, and around the interior face of which were fastened six lugs, was dropped into the pipe, to make sure that the entire amount of material had been removed, to the bottom of the proposed pile. When the pipe was found elear, four <sup>3</sup>-inch twisted steel rods were placed in the pipe to reinforce the concrete. These rods were first tied at top and bottom to two 7-inch centering rings, which held the rods exactly in place, so that throughout their entire length (average 25 feet) the centre of each rod was 1% inches from the finished face of each concrete pile.

Portland cement concrete mixed 1 to  $2\frac{1}{2}$  to  $4\frac{1}{2}$  was then admitted to the cylinder and very tightly rammed, so that each of the rods was entirely surrounded by concrete. After the concrete had been brought up to a height of two feet, that portion of the iron pipe was raised, and the process continued. When the last batch of concrete was deposited,  $1\frac{3}{4}$ -inch twisted steel rod, 1 foot 7 inches long, was inserted in the centre of the concrete pile 12 inches deep for a dowel, to fasten the 8-inch by 8-inch pile cap above. The slight remaining space, if any, between the top of the pile and the bottom of the pile cap, also the space between the dowel and the  $1\frac{1}{2}$ -inch hole through the pile cap, was filled with Portland cement mortar.

These piles were driven in bents 5 feet apart and 2 feet 10 inches on centre. Two of these piles were driven to a low grade and supported a 24-inch pipe sewer, while the third pile was driven to a grade 3 feet higher, and together with blocking from the lower flooring supported a 2-feet 6-inch brick surface drain. Owing to the fact that this street carries the heaviest trucking in the city, and that there was only three feet of covering over the brick surface drain, a strong structure with heavy foundation was imperative.

Congress street. - The portion of this street between Fort Point channel and the New York, New Haven & Hartford Railroad has been entirely remodelled. The old 15-inch pipe sewer in the centre of the street has been succeeded by two pipe sewers, one in each sidewalk, built at a considerably lower elevation. The same construction was followed here as in A street, that is, the roof water leaders were all detached from the main soil pipe wherever encountered, and together with catch-basins connected into the brick surface drain in the centre of the street. The house sewer in A street which takes the sewage from Congress street, Sleeper street, Farnsworth street, Pittsburgh street, etc., is thus relieved of a large amount of storm water. The surface drain here enters into Fort Point channel at the old Congress-street drawbridge, and will serve as an outlet for the streets just named when the latter are built upon the separate system. By the construction of this street the department has not only carried on the separation scheme inaugurated in A street, but has stopped the flooding of cellars so common in this district, has relieved the intercepting system and the pumping station of a large amount of storm water, and has generally bettered drainage conditions in this important warehouse district.

Vale-street outlet, between Columbia road and tide-water. — The 6-foot 6-inch brick conduit has been built across the playground at McNary Park to afford an outlet to tide-water for the system of combined sewers, the sewage from which enters the intercepter at the corner of Vale street and Columbia road. The structure was completed as far as the filling now going on here would allow, and will have to be extended from time to time as the filling encroaches on the line. House sewers have been built in Champney street, between Columbia road and Old Colony avenue; in Q street, between East Second and East Third streets; also surface drains and catch-basins in Thomas Park.

## Recommendations.

A street, between Mt. Washington avenue extension and Binford street. — Construction on A street, previously mentioned, was started at Binford street for the reason that it was impossible at the time to determine whether the old overflow which leads into Russell's dock at this point, or a new route selected in Mt. Washington avenue extension, as an outlet for the storm water drain. Objections were raised by the officials of the Boston Wharf Company to the continued use of this dock for an outlet, and later they granted the use of the Mt. Washington avenue line. This much having been settled, the remaining portion of A street should be finished at once.

Mt. Washington avenue. — This line having been decided upon as the route for the outlet for the storm drain in A street should be constructed the coming year.

P street. — This street, between First street and Third street, is badly flooded at times of heavy storm and is greatly in need of a lower sanitary sewer.

H street, between East Eighth street and East Sixth street.— This sewer should be rebuilt of a larger size and at greater depth to relieve the flooded cellars on Seventh street and Sixth street.

E street, between Seventh street and Ninth street. — This is a very low territory and one difficult to provide with satisfactory drainage. Many of the cellars are below the legal grade (grade 12), and the surface at the corner of E street and Eighth street is at elevation 14.50. Having for outlets the D-street sewer and the West Seventh-street sewer, which are both overtaxed in time of storm, it seems likely that a new route will have to be selected to the Dorchester-avenue intercepter.

Many of the sewers in South Boston are very old and the problem of satisfactory maintenance is a difficult one. Much of the trouble arises from the deposits of sludge, both in the common sewers and in the intercepter. A sufficient force of men should be established here to adequately care for the entire system.

Respectfully,

THOMAS F. BOWES,

District Engineer.

# REPORT OF A. L. KIDD.

# MR. E. S. DORR, Chief Engineer:

DEAR SIR, — There have been built in this district during the past year:

## CITY PROPER.

334.85	linear	feet	wood sewer.
1,404.00	""	""	concrete and brick sewer.
5,985.36	""	"	pipe sewer.
638.77	"	" "	· · surface drain.

Total, 8,362.98 linear feet = 1.58 miles.

The principal sewerage works completed in the district are as follows:

Fulton street, between Cross street and Ferry street. Chatham street, at Commercial street. Charter street, between Phipps place and Marshall place. High street, between Oliver street and Hartford street. Pinckney street, overflow at Brimmer street. Union Park street, overflow.

Sewers have been built by the Transit Commission in Washington street, between Hollis and State streets.

## Recommendations.

The sewer in Congress street is in a dangerous condition; it should be rebuilt immediately. If it should fall so as to dam the sewer, cellars would be flooded, and if a storm should occur at the same time, the district flooded would include many business houses; the damage to goods and property would be very heavy.

North Grove street. — This sewer is built of wood and is so rotten that it has caved in several times, causing dangerous holes in the street. When holes have occurred the sewer has been patched. The condition of the sewer is such that it must be rebuilt. I would therefore recommend that it be done before some serious accident occurs.

The Canal-street relief sewer in Commercial street, where it crosses State street, was settled by the construction of the East Boston tunnel. On account of the condition of the sewer, we have been unable to determine how much it has settled. It is desirable that the grade be restored. The old wooden sewers in Milk street, Broad street and India street have open joints and cause trouble by leaking into cellars. Although these sewers are not rotted enough to be in danger of falling in for some time, they are gradually rotting away, which makes it desirable to build tight brick sewers of modern construction.

Beach-street sewer is in poor condition It has been patched and may last for some time, but like most of the old wooden sewers it is rotting more each year, which will make it necessary to rebuild it in the near future.

Fellows street. — On account of the nature of the ground, this sewer has settled. It has gone down below the grade of the outlet at Albany street. I would recommend that a sewer be built on piles in Northampton street, between Harrison avenue and Fellows street, and Fellows street be rebuilt as far as Orange court. The sewer in Fellows street above Orange court does not require rebuilding.

East Lenox street. — This sewer has caused the department a great deal of trouble. It is badly settled, and is frequently found to be broken. It being impossible to clean it in its present condition, I would recommend that it be rebuilt immediately.

Oxford street. — This sewer has been broken and patched many times. It is in such poor condition that it is broken in the patched places, the sides not proving solid enough to hold up the new roof. It is necessary that this sewer be rebuilt at the earliest opportunity.

North Market street. — This sewer is in poor condition. It is leaky, and is probably the cause of water in cellars which has to be pumped so frequently. It should be rebuilt.

*East side intercepting sewer*, mentioned in last year's report, is in about the same condition. It is impossible to make a house connection with sewers that are drained by this sewer on account of the depth of water or sewage in them.

There are several miles of wooden sewers in the city proper district in different states of preservation. Many of them have open joints, which allow water to escape from them, which may find its way into adjoining cellars. Where water in a cellar has been traced to a leaky sewer, or where one has broken down, it has been rebuilt. As these sewers are getting older and consequently more rotten, it will not be far in the future when they will all have to be rebuilt. This depends largely how wet they are kept by the ground water outside or the sewage inside. Many that are connected or have their outlet into the east side intercepting sewer are kept full of water. This preserves them, but when the east side intercepting sewer is rebuilt and water lowered to its proper level many of these sewers will begin to go very fast.

#### NORTH ROXBURY.

There have been built in this district during the past year:

1,793.11 linear feet pipe sewer. 19,815.22 '' '' pipe surface drain. 1,139.70 '' '' 6-inch and 8-inch house drain.

Total, 22,748.03 linear feet = 4.31 miles.

The principal sewerage works completed in this district are as follows:

SEWERS.

Newbury street, between Massachusetts avenue and 270 feet westerly.

House of the Good Shepherd.

Harleston street, between Calumet street and Parker Hill avenue.

#### SURFACE DRAINS.

Beacon street, between St. Mary's street and Mountville street. House of the Good Shepherd.

Hemenway street, between Bryant street and Westland avenue. Huntington avenue, between Tremont street and Wait street. Bickerstaff street, between Haviland street and Astor street, and many others.

#### Recommendations.

The sewer in private street and Worthington street should be built to furnish a drain for the normal school on Worthington street, which is about to be constructed.

Surface drains, mentioned in last year's report, should be built in Jersey street, Queensberry street, Huntington avenue, Vila-street district, Fenway lands, Westland entrance, and on the west side of Parker Hill.

Muddy river conduit, mentioned in previous reports, has not been rebuilt.

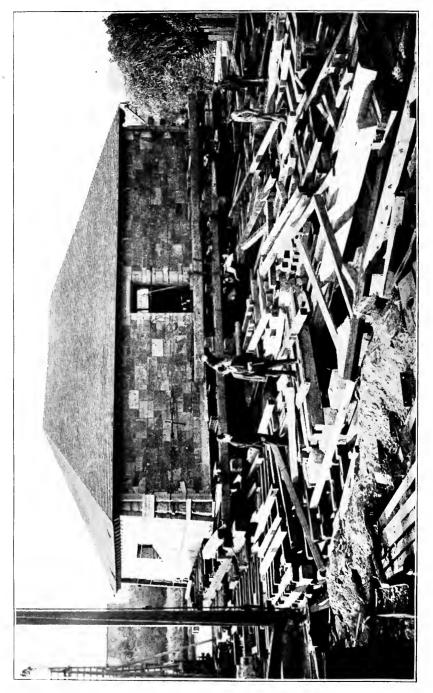
The old channel of Stony brook, mentioned in previous reports, is still in the same condition. This should be rebuilt, as it is unsafe to travel over, and also because of its unsanitary condition.

Respectfully,

## A. L. KIDD,

District Engineer.

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FENWAY. -- MOVING GATE-HOUSE NO. 2.



## REPORT OF WILLIAM F. MAHONEY.

# MR. E. S. DORR, Chief Engineer:

DEAR SIR, — The following is an account of the work performed on Stony brook during the year ending January 31, 1906:

The entire work of building the conduits has been finished. The remainder of the work completed is the superstructure, the conduit connections, the installing of the gates and the setting up of electrical machinery on Gate House No. 1; the forebay, tailbay, sub-structure, superstructure, gates and machinery on Gate House No. 2.

The construction of Gate House No. 2 presented some very complicated features, not generally met with in ordinary construction. To facilitate this work it was necessary to build a coffer-dam of 6-inch tongued and grooved sheeting, which broke twice owing to heavy rain storms and high tides occurring simultaneously. This was overcome by building a second dam outside and puddling between. A siphon was also built beneath the 12 feet by 12 feet structure to grade 12.00, in which peat and quicksand were encountered, and the gases emanating from the peat overcame the workmen to such an extent that they were obliged to work in two-hour shifts. The drainage at this point likewise presented many difficulties, as did also the excavation of silt which had been accumulating for years.

The work of extending the covered channels should be continued from Green street to Forest Hills to alleviate the damage caused by the heavy floods which generally occur every winter. Surveys and plans have been completed as far as Forest Hills, and surveys for the extension of the brook to the Hyde Park line are being made.

The old channel from the gate house to Elmwood street should be rebuilt immediately. That portion especially which lies between Tremont street and Vernon street is in such a dilapidated condition that it is a constant menace to life and health. In places the covering over the channel consists of rotten timbers and broken slabs and has to be repaired frequently. The entire channel needs rebuilding, and surveys and plans for this work have already been completed.

The work completed for this year is:

Superstructure and machinery Gate House No. 1.

The entire structure of Gate House No. 2.

97 linear feet 12-foot by 12-foot reinforced concrete conduit.

97 linear feet 10-foot by 7-foot 6-inch reinforced concrete conduit.

24.86 linear feet 7-foot reinforced concrete conduit; 3 manholes; 225 linear feet 10-inch pipe under-drain.

Yours respectfully,

WILLIAM F. MAHONEY,

Resident Engineer Stony Brook Improvement.

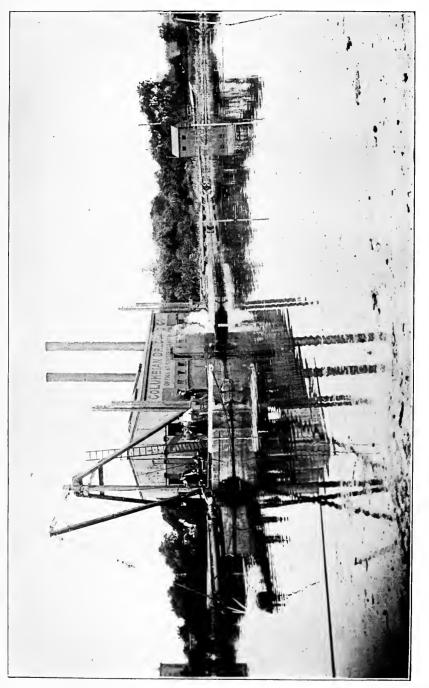
REPORT OF CHARLES L. WEEKS.

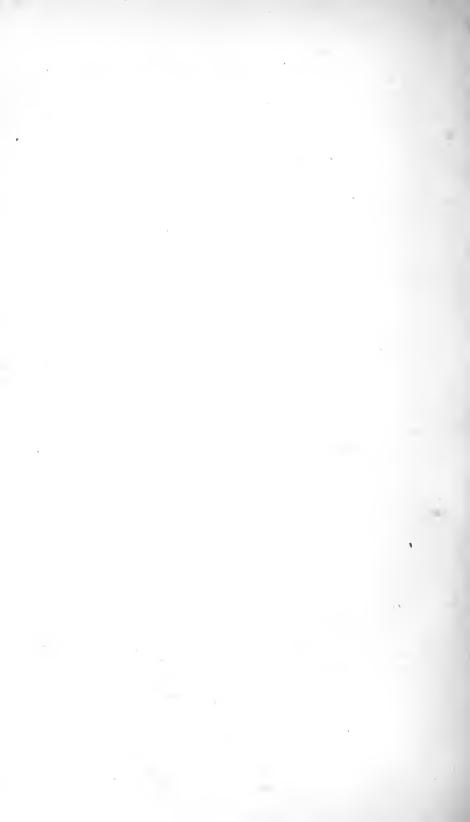
# MR. E. S. DORR,

Chief Engineer.

DEAR SIR, — The portion of the Fens pond between Agassiz road and the gate house was dredged in 1904. A detailed description of this work is contained in last year's report. Dredging commenced in September and continued until ice in the Charles river and ponds caused a shutdown in January, 1905. The material dredged from the ponds was pumped to a crib in the Charles river and there redredged into scows and towed to sea. The dredging in 1905 was commenced June 1, and ended January 28, 1906, being in that portion of the ponds from gate houses towards Brookline avenue; and, also, the portion dredged in 1904 was redredged on account of deposits from Stony brook channels flowing into the basin, where formerly the mud in the basin was at such a height that it acted as a dam to the Stony brook channels, and the deposits remained in those channels.

The quantity of the material dredged in the Fens ponds varies from Mr. Freeman's estimate contained in the Charles River Dam Report. The total amount dredged in the Fens ponds in 1904 was 63,500 cubic yards, of which 13,000 cubic yards came down from Stony brook since Mr. Freeman's estimate and during the time of dredging. In 1905, 41,000 cubic yards was dredged, of which 26,000 cubic yards was from Stony brook. Below Agassiz road remains 26,000 cubic yards, and in that part of the ponds, filled at the request of the Park Department, there was 15,000 cubic yards before filling was begun. This makes a total of 145,000 cubic yards





#### STREET DEPARTMENT — SEWER DIVISION.

of material, of which 104,000 cubic yards has been removed, or the whole of the material above Agassiz road except that portion which the Park people have filled for playground.

After being tied up by the ice, dredging could have been resumed by the 1st of March, 1905, but was delayed on account of discussions between Mayor Collins, the Park Department, City Engineer Jackson and the Sewer Division, relative to the disposal of the remaining sludge in the Fens ponds above Agassiz road.

The Park Department wished to have this material pumped to be discharged into a basin in the upper end of the ponds, which they contemplated filling for a playground. Mayor Collins approved the position of the Park Department in this respect, inasmuch as a saving could be made by discontinuing pumping to the crib in the Charles river and thereby saving rentals on the dredge, scows and tow-boats in the Charles river.

Against this proposition the Sewer Division protested, and their contention that a nuisance would be created by pumping the filthy sludge into another part of the ponds was justified by complaints regarding the odors that came from the partially filled hole, not only during pumping, but at all times afterwards. This discussion dragged along, and it was not until June 1 that dredging was resumed, the Park Department having gained their point. The pipe line was changed from the river and sludge was pumped as filling for the proposed playground. Pumping continued in this place until August 26, when 23,000 cubic yards of material had been deposited.

Complaints regarding odors were frequent, and on August 26, at the request of the Park Department, discharging into this sink-hole was stopped; the pipe line was changed over, so that discharge would go into the crib in the Charles river.

In the meantime the Superintendent of Streets on June 15 ordered the contractor to remove his dredge, scows and tow-boats from the work, so when pumping was resumed on September 15 the material pumped was discharged into the crib and then flowed into the Charles river.

Pumping was continued until January 27, 1906, and 22,000 cubic yards had been dredged and discharged into the river.

The portion above Agassiz road is clean, and small fish are seen in the water where formerly nothing but bacteria reigned supreme.

> Respectfully yours, CHARLES L. WEEKS, Engineering Inspector.

DISTRICT.	Built by the City either by Contract or Day Labor.	Built by Private Parties.	Total Length Built.	
	linear feet.	linear feet.	linear feet.	
City Proper	2,065.98	6,297.00	8,362.98	
East Boston	8,018.28	1,185.50	9,203.78	
Charlestown	3,151.20		3,151.20	
South Boston	7,023.84		7,023.84	
Roxbury	43,010.30	990.02	44,000.32	
West Roxbury	37,088.63	5,267.02	42,355.65	
Dorchester	55,954.10	1,944.95	57,899 05	
Brighton	4,403.54	2,234.68	6,638.22	
Totals	160,715.87	17,919.17	178,635.04	

### Summary of Sewer Construction for the Twelve Months ending January 31, 1906.

### Summary of Sewer Construction for Five Years Previous to February 1, 1906.

	1901.	1902.	1903.	1904.	1905.
Built by the city by con- tract or day labor Built by private parties	<i>lin.feet.</i> 122,092.52 14,004. <b>6</b> 7	lin.feet. 120,871.32 9,922.02	lin.feet. 216,667.57 9,906.96	lin. feet. 157,077.28 6,758.47	lin. feet. 160,715.87 17,919.17
Totals	136,097.19	130,793.34	226,574.53	163,835.75	178,635.04

### Amount of Refuse Removed from Filth Hoist for the Year ending January 31, 1906.

1905.	lbs.	
February	49,500	
March	75,750	
April	50,625	
May	102,000	
June	55,125	
July	47,625	
August	86,250	
September	90,000	
October.	85,875	
November	93,000	
December	131,250	
1906.		
January	144,375	

1,011,375 = 451 tons, 1,135 lbs.

#### STREET DEPARTMENT — SEWER DIVISION. 125

DISTRICT.	Total Length Built During Twelve Months Ending January 31, 1906.	Length Rebuilt and Abandoned During Twelve Months Ending January 31, 1906.	Additional for the Ty Months E January 3	welve nding
	linear feet.	linear feet.	linear feet.	Miles.
City Proper	8,543.98	6,874.74	1,669.24	0.32
East Boston	9,203.78	1,247.53	7,956.25	1.51
Charlestown	3,151.20	885.52	2,265.68	0.43
South Boston	7,023.84	2,422.91	4,600.93	0.87
Roxbury	44,000.32	1,553.96	42,446.36	8.04
West Roxbury	42,355.65		42,355.65	8.02
Dorchester	57,899.05	111.00	57,788.05	10.94
Brighton	6,638.22		6,638.22	1.26
Totals	178,816.04	13,095.66	165,720.38	31.39
Length built previous to Ja	ınuary 31, 1906			645.04
Total				676.43
Length of intercepting sew	ers			24.12
Total				700.55
Total mileage of streets	containing sewe	rage works		454.85

#### Schedule of Sewers Built to Date in the City of Boston, February 1, 1906.

#### Amount of Sludge Received and Removed from Deposit Sewers during Twelve Months ending January 31, 1906.

MONTH.	Cubic Yards Received.	Cubic Yards Removed.	
1905.			
February	691	824	
March	586	695	
April	1,086	710	
May	1,153	743	Sludge in sewers Feb-
June	1,063	780	ruary 1, 1905, 856 cubic yards.
July	862	695	cable jarab.
August	784	730	
September	883	880	Sludge in sewers Feb-
October	775	930	ruary 1, 1906, 992 cubic yards.
November	830	965	ouble jarab.
December	762	940	
1906.			
January	695	1,142	
Totals	10,170	10,034	

Av	erage	Daily	Amo	unt	Pumped	at	the	Pumping	Station.
Year.									Gallons.
1902	•	•		•		•			88,480,680
1903				•					88,804,669
1904	•	•							87,241,730

ENTRANCE FEES, PERMITS AND ASSESSMENTS.

Entrance fees to the amount of \$4,043.66 have been collected from estates upon which no sewer assessment was ever paid, in accordance with chapter 38, section 10, of the Revised Ordinances of 1898.

Bills for sewer assessments amounting to \$455.27 have been deposited for collection, representing those estates assessed under chapter 456 of the Acts of 1889, and amendments thereto, which have been connected during the year with the sewers for which they were assessed.

One thousand six hundred and fifty (1,650) permits have been issued to licensed drain-layers to make connections with the public sewers, and the work done under these permits has been inspected, and a record of the same made on the plans of this division, in accordance with the provisions of chapter 38, sections 6 and 10, of the Revised Ordinances of 1898.

Seven hundred and seventeen (717) permits have been issued to district foremen and contractors for construction and repairs of sewers and catch-basins.

Plans for the assessment of estates benefited by sewer construction have been furnished the Street Commissioners, representing 60,813 feet of sewers and appurtenances, costing \$471,413.

	Number.	
City Proper	16	1,614,447 linear feet of sewers flushed
Roxbury	17	11,721 cubic yards material removed
Dorchester	54	from sewers.
West Roxbury	51	8,348 catch-basins cleaned; 19,340
Brighton	16	cubic yards removed.
Charlestown	0	
East Boston	6	
South Boston	16	
	176	

Catch-basins built February 1, 1905, to January 31, 1906.

A P FRO PRIATIONS.	Balances on Hand Feb. 1, 1905.	Appropriations, Loans and Transfers during the Year.	Revenue received during the Year.	Total Credits.	Expenditures during the Year.	Balances on Hand Jan. 31, 1906.
Sewer Division		\$380,778 54	\$909 24	\$381,687 78	\$381,687 78	
Sewerage Works	\$2,103 15	1,000,000 00		1,002,103 15	751,179 93	\$250,923 22
Separate System of Drainage	259,602 94	600,000 00	600,000 00	859,602 94	784,093 91	75,509 03
Abolishment of Grade Crossings		16,184 24		16,184 24	16,184 24	
Atlantic-avenue Extension		1,604 16		1,604 16	1,604 16	
Totals.	\$261,706 09	\$1,998,566 94	\$909 24	\$2,261,182 27	\$1,934,750 02 \$326,432 25	\$326,432 25

Financial Statement. -- Street Department, Sewer Division.

#### CITY DOCUMENT NO. 40.

#### OBJECTS OF EXPENDITURES.

Pumping Station and Moon Island, Tow-boat \$13,349 57	\$117,411 94
Less paid by Sanitary Division 6,348 58	7,000 99
Main and intercepting sewers .	$\begin{array}{c} 21,600 & 53 \\ 21,637 & 68 \\ & \$146,050 & 61 \end{array}$
Pumping Station, Lyons	
Maintenance	9,290 38
Stony Brow	ok.
Maintenance	6,321 99
Miscellaneous Mainten	ance Charges.
Office and engineering force, salaries	and expenses, 31,684 96
Current expenses of yard, lockers, stables, etc.	\$79,826 30
Less amount earned by division	99 969 15
teams and engines	57,564 15
Repairing and cleaning catch-basins general repairs	s, sewers and 99,017 64
House connections, work for other	departments,
incidentals, etc.	. $.$ $.$ $.$ $.$ $.$ $.$ $.$ $.$ $.$
Hardware, tools, rubber goods, etc. Telephones not included elsewhere	. $.$ $.$ $1,106$ $12.$ $.$ $1,625$ $91$
Telephones not menuded elsewhere	
	384,536 08
Less decrease of stock at yards .	· · · <u>2,848 30</u>
	\$381,687 78
0 W	
Sewerage Wo	
Pumping Station and Moon Island	\$147,920 31
. Sewer Constru	uction.
South Boston	\$22,317 82
East Boston	9,792 81
Charlestown	25,906 86
Brighton	7,124 80 79,845 13
West Roxbury	48,138 70

Carried forward . . . \$193,126 12 \$147,920 31

Brought	forwar	·d.		\$193,126	12	\$147,920	31
Roxbury .				13,345	70		
City Proper				49,409	21		
						255,881	03

STREET DEPARTMENT - SEWER DIVISION. 129

#### Miscellaneous Construction Charges.

Engineering force, salaries and expenses .		75,032	00
Hardware, tools, rubber goods and damages .			
New manholes			
New catch-basins		15,892	55
Office salaries and labor		48,025	66
Advertising, fuel and oil, incidentals, car ticke	ets,		
holiday		13,502	60
Foul flow channel, Stony brook improvement, c			
struction and engineering	•	171,813	06
		\$751,179	93

#### SEPARATE SYSTEMS OF DRAINAGE.

#### Sewer Construction.

South Bosto	$\mathbf{n}$						•		\$88,556	17
East Boston									77,595	81
Charlestown		•							16,418	11
Brighton	•								12,285	12
West Roxbu	ıry						•		94,831	75
Dorchester		•							243,157	14
Roxbury									175,554	01
City Proper		•	•	•	•	•	•	•	11,794	14
									\$720,192	25
Engineers'	sala	ries,	adv	ertisir	ng, ir	nciden	tals	and		
holiday	•	•	•	•	•	•	•	•	63,901	66
									\$784,093	91
		Atl	ANTI	C-AVI	ENUE .	Exten	SION			
Sewer const	ructi	on						•	\$1,604	16
	$\mathbf{A}$	BOLIS	HME	NT OF	GRA	de Cf	ossn	GS.		
			Seu	ver C	onstri	iction.	•			
East Boston									\$14,000	94
Dorchester	•	•		•	•	•	•		2,183	30
									\$16,184	$\overline{24}$

#### CITY DOCUMENT NO. 40.

#### RECAPITULATION.

Street Department, Sewer Division			\$381,687	78
Sewerage Works			751,179	93
Separate Systems of Drainage .			784,093	91
Abolishment of Grade Crossings.			16,184	<b>24</b>
Atlantic-avenue Extension	•		1,604	16
		-		
		\$	1,934,750	0 <b>2</b>

	ASSESSED V	VALUATION.
OWNED BY CITY.	Land.	Buildings.
Sewer yard, 678 Albany street, South End	<b>\$56,4</b> 00	\$3,000
Gate-house, Columbus avenue, Roxbury		
Sewer yard, Rutherford avenue, Charlestown	13,000	4,000
Sewer yard, Massachusetts avenue, near Albany street, South End	56,400	3,000
Sewer yard, Western avenue, Brighton	8,600	5,500
Pumping station, Old Harbor Point, Dorchester	98 <b>,0</b> 00	300,000
Land, buildings and reservoirs at Moon Island and Squantum	19,500	4,300
Sewer yard, North Grove street, West End. (Oc- cupled in common with other divisions of the Street Department)	66,720	28,000
ewer yard, Child and South streets, West Rox- bury. (Occupied in common with Paving Divi- sion)	19 <b>,3</b> 00	3,000
Pumping station, Lyons street	1,200	6,600
Sate-houses, Back Bay Fens		••••
LEASED.		
wever yard, Revere street, West End. (Occupied in common with Paving Division. Leased from J. J. Costello)	76,500	3,500
ewer yard, Eagle street, East Boston. (Occupied in common with other divisions. Leased from trustees of Glendon Company)		
ewer yard, Old Harhor street and Columbia road, South Boston. (Office building owned by Sewer Division. Leased from estate of Choate Burn- ham)	4,800	3,200
ewer yard, Gibson street, Dorchester. (Build- ings erected by Sewer division. Leased from trustees of Gibson School Fund)	7,000	5,000

#### Real Estate in Charge of the Sewer Division.

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Sewers built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

Built In     Between       A street.     Gold street and West Fourth street.		0		
A street Gold street and West Fourth str		Feet.	Materials.	Weindung.
A street       A street         Congress street       Fort Point Channel and A street         Congress street       A street and N.Y., N.H. & H. R.R         Clampney street       Columbia road and Old Colony avenue         Q street       Fost Second street and Old Colony avenue         Q street       Columbia road and Old Colony avenue	ect set R Istreet,	176.49 981.92 92.97 746.70 284.70 569.00 569.00 289.40 289.40 289.40	176.49     15-Inch pipe     Pay labor. Separate syst drainage. Rebuilt.       981.92     24-inch pipe     Pay labor. Separate syst drainage. Rebuilt.       92.97     20-inch pipe     Pay labor. Separate syst       92.97     20-inch pipe     Pay labor. Separate syst       92.97     20-inch pipe     Pay labor. Separate syst       93.98     15-inch pipe     Pay labor. Separate syst       94.101     15-inch pipe     Contract. Separate syst       95.16     15-inch pipe     Contract. Severage works.       93.17     10-inch pipe     Contract. Severage works.       93.17     12-inch pipe     Contract. Severage works.       93.12.1nch pipe     Pay labor. Severage works.       94.12.1nch pipe     Pay labor. Severage works.	176.49     15-Inch pipe

Day labor. Separate systems of drahnage. Separate systems of Contract. Sewerage works. Day labor. drainage. 12 inch pipe..... 4 feet, circular brick..... 4 feet, eireular brick.....  $\begin{array}{c} 233.12\\ 223.53\\ 360.30\\ 360.30\\ 132.90\\ 132.90\\ 132.90\\ 132.90\\ 132.90\\ 132.90\\ 132.90\\ 132.90\\ 132.81\\ 281.80\\ 281.80\\ 281.80\\ \end{array}$ Fort Point Channel and N.Y., N.H. & H. R.R. Binford street and Congress street..... Broadway and Elghth street..... A street..... Congress street ..... Dorchester street.

STREET DEPARTMENT - SEWER DIVISION.

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Contract. Sewerage works.

12 Inch pipe

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Sewers built between February 1, 1905, and February 1, 1906, by the City either by Contract or Day Labor.

It	Locaurty.	Length in	Dimensions and	
Built in	Between	Feet.	Materials.	Remarks.
Bennington street and Outlet		170.12 227.20 15.00 96.00	24 inch, brick. 18-inch pipe. 12-inch inco pipe. 20-inch ircon pipe. 1 tide-gate: 1 aump; 1 regu- lator connection with Met- ropolitan Sever.	Contract. Abolishment of grade crossings.
Curtis street.	Chelsea street and Pope street	272.68	24-inch Iron pipe	Contract. Abolishment of grade
East Boston low level sewer in Kneller street.	Addison street and Trumbull street	133.50 1,288.14	3 feet, circular brick	Contract. Day labor. Separate systems of drainage.
private land (Kneller-street)	Trumbull street and Boardman street	[ 226.08 352.27	36-inch iron pipe	Contract.
East Boston low level sewer in Boardman street	Outlet in private land and Saratoga st	560.00	3 feet, circular brick	Day labor. Separate systems of drainage.
Frankfort street	Neptune avenue and Swift street	525.57 199.74 93.21	12-inch pipe	Contract. Separate systems of drainage. Day labor.
Gladstone street	Tower street and 350 feet east	175.00 55.75 41.70	12 inch pipe 24-inch pipe 18-inch pipe	Contract. Sewerage works. Contract. Sewerage works.
Meridian street Moore street in ter cep ter in }	Havre street and Paris street Kneller street and Saratoza street	185.90 70.55 700.00	10-inch pipe	Contract. Sewerage works. Day labor. Separate systems of
Prescott street		137.23 164.68 248.33 3.76	24-inch pipe 18-inch pipe 16-inch pipe 15-inch pipe	/ drainage. Contract. Sewerage works.

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#### CITY DOCUMENT NO. 40.

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Cottage street	Ottage street       Maverlek street and Gove street         Prankfort street       Gove street and Portor street         Gove street       Orleans street and Frankfort street		582.03 12-inch pipe. 380.55 12-inch pipe. 202.92 12-inch pipe.
Surface drains built be	tween February 1, 1905, and Febr	uary 1, 19	surface drains built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

Moore street and Byron street	Frankfort street and Bremen street	Wordsworth street
Horace street	Porter-street outlet	sworth street

# Charlestown.

Sewers built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

Bunker Hill street	. Vine street and Chelsea street	808.86	808.86 12-inch pipe	Day labor. S.	Day labor. Separate systems of drainage.
Bunker Hill street	Decatur street and Chelsea street	40.00	40.00 12-inch pipe	Day labor. S	Day labor. Separate systems of drainage.
Decatur street	Vine street and Bainbridge street	290.33	290.33 12-inch pipe	Contract.	Contract. Separate systems of drainage.
Decatur street	Vine street and Bunker Hill street	229.90	229.90 12-inch pipe	Day labor.	Day labor. Separate systems of drainage.

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Severs built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

L	Locality.	Length in	Dimensions and	с-1с <b>f</b>
Built in	Between	Feet.	Materials.	Denarks.
Moulton street	Moulton street Vine street and Bunker Hill street	191.30	191.30   12-inch pipe   }	Day labor. Separate systems of drainage.
Rutherford avenue	Rutherford avenue Outlet and Dunstable street	5 <b>0</b> .00	6 feet 6 inches, circular brick,	50.00 6 feet 6 inches, circular brick, { Day labor. Rebuilding sewerage works.
Rutherford avenue	Rutherford avenue Tibbets Town Way and Essex street	26.00 26.00	4 feet 3 inches, circular brick, 5 feet 9 inches, circular brick, 24-inch pipe	4 feet 3 incles, circular brick, feet 9 incles, circular brick, 24 inch pipe
Tufts street	Bunker Hill street and Princeton street,	405.16	12-inch pipe.	Contract. Separate systems of drainage.
Vine street	Chelsea street and Bunker Hill street	300.13	12-inch pipe	Day labor. Separate systems of drainage.

## Brighton.

Severs built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

Allston place	Woodstock avenue and Corey road	279.03	279.03 12-Inch pipe	Day labor. Separate systems of drainage.
Champney street	Washington street and Strutton street.	675.04	675.04 12-inch pipe	Contract. Separate systems of drahage.
Corey road	Summit avenue and 200 feet south {	219.78	219.78 10-inch pipe	Contract. Sewerage works.
Kingsley street	Rena street and North Harvard street	775.42	775.42 12-inch pipe	Contract. Sewerage works.
		-		

Parties.
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231.21 12-inch pipe.	529.20 8-inch pipe.	624.17 8-inch pipe.	163.00 10-inch pipe.	
		~~	_	
Commonwealth avenue and Summit { avenue 300 feet northerly	Ψ.	Private street No. 367 and Cummings	$\sim$	
Harvard avenue	Private street No. 867	Private street No. 868	Private land (Prospect avenue) extension)	

Surface Drains built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

$\mathbf{of}$	of	of	of	of	of	
systems	systems	systems	systems of	systems	systems	
Separate	Separate	Separate	Separate	Separate	Separate	
Contract. Separate systems of drainage.	~~~	~~~		Contract. Separate		
24-inch pipe	30-inch brick	15-inch pipe	12-inch pipe	30-inch brick	24-inch pipe	
315.60	426.82	213.00	693.17	523.07	282.61	
Allston place Woodstock arenue and Corey road	Commonwealth avenue and   Northerly line of Commonwealth ave.   Allston street	250 feet north of Cummings road and private street 200 feet northerly	Sutherland road and Lanark) Commonwealth avenue and Kinross road	Warren street Allston street and Woodstock avenue	Woodstock avenue	
Allston place	Commonwealth avenue and Allston street	Corey road	Sutherland road and Lanark	Warren street	Woodstock avenue	

Surface Drains built between February 1, 1905, and February 1, 1906, by Private Parties.

12-inch pipe. 12-inch pipe.	
529.10 158.00	
Corey road and Commonwealth avenue, Corey road and Brookline line	
Private street No. 867	

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Sewers built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

	Remarks.	<ul> <li>Day labor. Sewerage works. Contract: Sewerage works.</li> <li>Contract: Sewerage works.</li> <li>Contract: Sewerage works.</li> <li>Contract: Sewerage works.</li> <li>Contract: Sewerage works.</li> <li>Day labor. Sewerage works.</li> <li>Day labor. Separate systems of drainage.</li> <li>Contract. Sewerage works.</li> </ul>
Dimensions and	Materials.	<ul> <li>12-inch pipe</li> <li>10-inch pipe</li> <li>12-inch pipe</li> <li>12-inch pipe</li> <li>12-inch pipe</li> <li>12-inch pipe</li> <li>13-inch pipe</li> <li>13-inch pipe</li> <li>15-inch pipe</li> <li>15-inch pipe</li> <li>15-inch pipe</li> <li>12-inch pipe</li> </ul>
Leneth in	Feet.	1,215.05       2392.25       2392.25       2392.25       2392.25       2392.25       2392.25       2392.25       2392.25       2392.25       2392.25       2392.25       2392.25       2392.25       2392.25       2392.25       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,753.45       1,901.30       1,901.30       1,901.30       1,901.30       1,901.30       3381.30       3381.30       3381.30       3381.30       3381.30       3381.30       3381.30       3381.30       3381.30       3381.30       3381.45       130.17       130.17       130.17       130.17       130.17
Locality.	Between	Weld street and Willow street Rowe street and Brown arenue Dunbar street and Brown arenue Dunbar street and Brown arenue dufterbury street and Baker place dardner street and Anawan avenue dardner street and Anawan avenue dartin street and Anawan avenue Old L, H., about 150 feet southeast of Martin street and Belleve estreet South Fairview street and Belleve estreet Malle street and Belleve estreet Malle street and Protor street Malle street and Neponset avenue Malle street and Neponset avenue Washington street and Neponset avenue Ha. R. R. Landseer street and Neponset avenue Washington street and Sofet easterly Vashington street and Sofet easterly Stony Brook and Sofet northwesterly.
I	Built in	Addingtou road, private land, and Dunbar street.         Anen street.         Arbund street.         Ashland street.         Avalon road.         Belgrade avenue, Section 2.         Bellevue street.         Brook street.         Brook street.         Havey street.         Havey street.         Jewet street.         Jewet street.         Iarch place.         Jewet street.         Mortolair avenue.         Mortolair avenue.

Day labor. Sewerage works. Day labor. Sewerage works. Contract. Sewerage works. Contract. Sewerage works. Contract. Sewerage works. Contract. Sewerage works. Day labor. Separate systems of drainage. Contract. Sewerage works. Contract. Sewerage works. Contract. Sewerage works. Contract. Separate systems of drainage. Contract. Separate systems of drainage. Day labor. Separate works. Day labor. Sewerage works. Day labor. Sewerage works.	
Day labor. Day labor. Day labor. Contract. S Contract.	Parties.
12.inch pipe	tary 1, 1906, by Private .
$\sim \sim \sim$	and Febru
Mt. Hope street       480 feet north of Stony brook and Iryde Park avenue       611.13         Mt. Hope street       Iryde Park avenue       205.00         Nsponset avenue.       Iryde Park avenue       205.00         Nt. Hope street       Iryde Park avenue and 500 ybrook.       205.00         Nsponset avenue.       Iryde Park avenue and 500 ybrook.       205.00         Printeld street.       Iryde Park avenue and Stony brook.       205.00         Private land       Aniherst street and Neponset avenue.       235.02         Private land       Mt. Hope street and Neponset avenue.       249.06         Robin street.       Private varoue and Ashland street.       249.06         Robin street.       Private varoue and Ashland street.       249.06         South street.       Private varoue and Ashland street.       235.50         South street.       Didgenout street and Oteruses street.       255.50         Taubot avenue ligh level severt.       South street.       255.50         Section 5.       Index avenue and Morton street.       255.50         Washington street.       South street.       255.50         Section 5.       Index avenue and Morton street.       255.50         Washington street.       Didge of Ashland street.       255.50         Washingto	Sewers built between February 1, 1905, and February 1, 1906, by Private Parties.
Mt. Hope street.       480 feet         Mf. Hope street.       Invie         Neponset avenue.       Invie         Pendeld street.       Andingt         Private land       Hyde P         Robin street.       Hyde P         Robin street.       Bellevu         Routh street.       Bellevu         South street.       Bellevu         South street.       Bellevu         Rubot.avenue high level sever,       Belgevu         Section f.       Invate         Talbot.avenue high level sever,       Bedgeno         Section f.       Metropic         Vashington street.       Bedgeno         Section f.       Metropic         Washington f.       Bout         Washington street.       Bout         Mushington street.       Bout         Mushington street.       Bout         Brow street.       Bout         Mushington street.       Bout         Mushington street.       Bout	Sew

492.25   12-inch pipe.	12-inch pipe.	,192.27 12-Inch pipe.	12-inch pipe.	12-inch pipe.	12-inch pipe.	12-10CH brbe.	
492.25	499.39	1,192.27	553.34	630.26	970.03	929.45	
Walk Hill street and South street	Centre street and Board of Survey street No. 1346	Centre street and 300 feet north of	Centre street and street No. 1346		Pond street and Woodland road	Pond street and 900 feet easterly	
A sticon road	~	Case street	Lakeville place	:	Moss Hill road	Woodland road	

STREET DEPARTMENT -- SEWER DIVISION. 137

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Surface Drains built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

		ems of	tems of	systems of	s. tems of	tems of	tems of	ŝ.	systems of	systems of	systems of	systems of	systems of	ks.
-	Kemarks.	Contract. Separate systems	Separate systems		Contract. Sewerage works. Contract. Separate systems drainage.	Day labor. Separate systems of drainage.	Contract. Separate systems of drainage.	Contract. Sewerage works.	Separate syst	Separate syst	Separate syst	Separate syst	arate syst	>Day labor. Sewerage works.
ŝ	Iten	ontract. Sep		Contract. Separate drainage.	ontract. Sewe ontract. Sep drainage.	ay labor. Sei drainage.	ontract. Sep drainage.	ract. Sewe	Contract. Sep drainace			Contract. Set	Contract. Separate drainage.	abor. Sev
		.   Contr	Contr	~~~			~~~	~~~	Contr	Contr	<u> </u>			<u> </u>
Dimensions and	Materials.	12-inch pipe	12-inch pipe	20-fnch iron pipe 18-Inch pipe	12-inch pipe. 15-inch pipe. 12-inch pipe.	30-inch prick 10-inch prick drain 90 catch hacing	18-inch pipe 20-inch fron pipe 12-inch fron pipe	5 feet $\times$ 3 feet 4 inches, concrete conduit.	15-inch pipe	15-inch pipe	12-inch pipe	12-Inch pipe	15-inch pipe 18-inch pipe	15-inch pipe 12-inch pipe
Length in	Feet.	736.95	550.39	$\left\{\begin{array}{cc} 12.00 \\ 545.87 \\ 168.91 \\ 168$	295.84 443.50	1,579.55	$\left\{\begin{array}{c} 587.41\\ 12.00\\ 250.75\end{array}\right.$	336.88	301.88	544.11 701.20	601.04	499.00	321.70     326.77     326	$\left\{\begin{array}{c} 39.25\\ 1,990.66\\ 120.40\end{array}\right.$
LOCALITY.	Between	Washington street and Kittredge street,	Belgrade avenue and Penfield street	Roslindale hrook and Dudley avenue	Cypress street and Washington street Malcolm street and Beech street	Beigrade avenue, Section 2 Aidrich street and Anawan avenue	Roslindale brook and Dudley avenue	Easterly side of Centre street and George street	Stratford avenue and Flora street	Belgrade avenue and Lorraine street	Clement avenue and Kenneth street	Poplar street and 350 feet northeast Ashland street	Roslindale brook and Belgrade avenue,	Hyde Park avenue, Section 2 Larch place and Ashland street
Q I		Albano street	Amherst street	Amherst street	Beech streetBeech Belgrade avenue		Birch street			Colberg avenue			-	

CITY DOCUMENT NO. 40.

	of	of	$0^{\mathbf{f}}$	of	of	of	of
systems	systems	systems	systems	systems	systems	systems	systems
Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate
Contract. Separate systems of	Contract. Separate systems of drainage.		0	Contract. Separate systems of drainage.	Day labor. Separate systems of drainage.	Day labor. Separate systems of drainage.	Contract. Separate systems drainage.
249.80   12-inch pipe	825.39 12-luch pipe	15-inch pipe	12-Inch pipe	524.05 12-inch pipe	181.00 S feet, circular concrete	123.75 24-inch pipe	440.58 15-inch pipe
249.80	825.39	$200.18 \\ 600.06$	815.65	524.05	181.00	123.75	440.58
		-					
enue	g avenue	avenue	arg avenue	rg avenue	n street	street	io street
Kenneth street Flora street and Stratford avenue	Lorraine street Belgrade avenue and Colberg avenue	Malcolm street Belgrade avenue and Colberg avenue	Montello street Belgrade avenue and Colberg avenue	Rexhame street Belgrade avenue and Colberg avenue	Roalindale branch of Stony   Cohasact street and Linden street	Washington street	Kittredge street and Albano street

# North Dorchester.

Severs built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

Church street	Church street Bowdoin street and Winter street	362.15	362.15 12-inch pipe Contract. Sewerage works.	Contract. Sewerage works.
Cunningham street	Cunningham street Howard avenue and Hartford street	72.00	72.00 10-inch pipe	Contract. Separate systems of drainage. In progress.
Dorchester-brook sewer	Dorchester-brook sewer	125.00	125.00 24-inch pipe	Contract. Sewerage works. In progress.
Hamilton street	Hamilton street Coleman street and Bowdoin street	280.50	280.50 12-inch pipe	-
Harvard street	Washington street and Chamberlain	44.00	44.00 12-inch pipe	Contract. Separate systems of drainage. Rebuilt.
Mt. Everett street	Mt. Everett street Quincy street and 480 feet south	67.00	67.00 12-inch pipe	Contract. Separate systems of drainage. Rebuilt.
Prescott place.	Prescott place	254.60 180.50	254.60 12-inch pipe	-

#### STREET DEPARTMENT --- SEWER DIVISION.

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Sewers built between February 1, 1905, and February 1, 1906, by Private Parties.

Built in     Between       Oard of Survey street No. 1881     Norton street and Olney street       ameron street     Dorohester avenue and 350 feet west       ameron street     Dorohester avenue and Gardiner avenue and end end       contastreet extension     Savin Hill systeme and end	E4	Materials.	CT IMITAT
Board of Survey street No. 1831 Cameron street			
Kingsdale street	349.70 207.15 315.57 315.57 244.90 192.75	12-Inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe.	

Surface Drains built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

•							1
Bellevue street and outlet in Rang street	Bellevue street and outlet lu Quincy street and Stanley street	556.35	556.35 12-inch pipe	Contract. Separate systems drainage.	Separate	systems	of
Blakeville street	Blakeville street	339.75	12-inch pipe	Contract.	Separate	Separate systems	of
Board of Survey street No. 1831	Board of Survey street No. 1831 Norton street and Olney street	348.65	12-inch pipe	Contract.	Separate	systems	of
Bullard street	Bullard street Rosseter street and Bowdoin avenue	521.30	521.30 12-inch pipe	Contract. Separate systems of drainage.	Separate	systems	of
Charlotte street	Blue Hill avenue and Bradshaw street.	591.90	12-inch pipe	Contract.	Separate systems	systems	of
Cunningham street	Howard avenue and Hartford street	452.00	452.00 12-inch pipe	Contract. Separate systems drainage. In progress.	Separate In progr	systems	of
Dewey street	Blue Hill avenue and Howard avenue	531.90	12-inch pipe	Contract. Separate systems	Separate	systems	of
Dove street.	Dove street Dove street and Blue Hill avenue	$238.00 \\ 18.00$	12-inch pipe	Contract. Separate systems drainage.	Separate	systems	of
Fayston street	Blue Hill avenue and Mascoma street	218.75 178.75 798.20 28.00	l8-lnch pipe	Contract. drainage.	Separate	Separate systems	of

#### CITY DOCUMENT NO. 40.

STREET DEPARTMENT — SEWER DIVISION. 141

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Surface Drains built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

In	Locality.	Lenoth in	Dimensions and		
Bullt in	Between	Feet.	Materials.	Remarks.	
Adams street	Butler street and Medway street	462.16	12-inch pipe	Contract. Separate systems o drainance Rock	of
Alban street	Ashmont street and Welles avenue	1,411.90	12-inch pipe	Separate systems	of
Armandine street	500 feet west of Washington street and Milton avenue.	878.10	18-Inch pipe	Contract. Separate systems of division Sources	of
Ashmont street	Waldorf street and Alban street	550.80 348.55	15-inch pipe	Separate systems	of
Birch street	Callender street and Lauriat avenue	313.00	24-inch pipe	Separate systems	of
Brent street	Wainwrlght st. and Washington st	194.70 207.60 397.20	20-inch pipe	Separate systems	of
Canteroury branch of Stony {	Harvard street and Don street	980.50	10 feet $\times$ 8 feet 6 inches, brick,	Day labor. Separate systems of drainage. Rock.	of
Centre street	Seaborn street and Washington street	720.00	12-Inch pipe	Separate systems	$\mathbf{of}$
Darling street	Southern avenue and Norfolk street	440.12	12-inch pipe	Separate systems Some rock.	$\mathbf{of}$
Evelyn street	Norfolk street and Blue Hill avenue	830.20	12-inch pipe	Separate systems	of
Fairmount street	Milton avenue and Nevada street	600.55	12-inch pipe	Separate systems	of
Fessenden street	Blue Hill avenue and Norfolk street	35.00	12-inch pipe.	Contracts. Separate systems o	of
Fremont street	Blue Hill avenue and Norfolk street	186.05	12-inch pipe	Abolition of Oakland-street grade crossing.	Je
Harley street	Welles avenue and Roslin street	691.42	12-inch pipe	Separate systems	of
Jones avenue	Ballou avenue and Mascot street	257.87	15-inch pipe	Separate systems	of
Kenwood street	Washington street and Allston street	861.63	18-inch pipe.	Separate systems	of

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CITY DOCUMENT No. 40.

of of	of	of	of	of	of	of	of	of	of	of	of	of	of	of	of	of	9.0	-	of
					systems (	systems •	80	systems .	systems	systems	systems	systems	systems	systems	systems	systems	2	2	
Separate systems Some rock. Separate systems	Separate systems Some rock.	Separate systems	Separate systems Some rock.	Separate systems	Separate	Separate	age ate	Rock. Separate	Separate	Separate Rock.	Separate	Separate a	Separate	Separate Rock.	Separate	Separate s	Sewerage works.	charane	Separate systems
Contract. S drainage. Contract. S drainage.								Contract.			Contract.			Contract.				å	
12-inch pipe.         12-inch pipe.         1	12-inch pipe	15-inch pipe	12-inch pipe	12-inch pipe	12-Inch pipe	I5-inch pipe	5 feet, brick	12-inch pipe	12-Inch pipe	15-inch pipe 10-inch pipe 6 catch-basins	12-inch pipe	12-inch pipe	20-inch pipe	24-inch pipe	12-Inch pipe	24-inch pipe	14 ft. $\times$ 12 ft., brick conduit	12-inch pipe	12-inch pipe
600.02 1,351.80	569.70	474.50 1,396.04	979.10	971.14	763.83	149.95	197.00 651 95	584.40	1,376.18	1,757.85	36.00	990.45	303.85 334.20 240.35	312.44	717.80	334.44	122.00	525.03	873.45
Blue Hill avenue and Summit, 540 feet   westerly	Wildwood street and Norfolk street	Edson street and Fairmount street	Washington street and Milton avenue	Washington street and Allston street	Morton street and Mascot street	Callender street and Birch street	N.Y., N.H. & H. R.R. and Randolph st Norton street and Codman street	Norfolk street and Torrey street	Ashmont street and Welles avenue	Mattapan square and Hyde Park line	Oakland street and Blue Hill avenue	Washington street and Milton avenue	Washington street and Ocean street	Sturbridge street and 300 feet easterly.	Washington street and Milton avenue	Monson street and Sanford street	Mill street and Park street	Blue Hill avenue and 530 feet westerly.	Waldeck street and Washington street
}						outlet in {				* * * * *			•		•••••••				

STREET DEPARTMENT - SEWER DIVISION. 143

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Surface Drains built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

ΓĊ	LOCALITY.	Leneth in	Dimensions and			
	Between	Feet.	Materials.		Remarks.	
:	Walton street Washington street and Harley street	469.80	12-inch pipe	Contract. Separate systems of	Separate	systems
Welles avenue	Wainwright st. and Washington st	209.80 345.27 774.85	18-inch pipe	~~~	Separate	systems of
Wheatland avenue	Whitfield street and Washington street		12-inch pipe	Contract.	Separate	systems
e	Willowwood st. and Ballou ave Dumas street and Norfolk street	661.36	24-inch pipe	Contract. Separate systems of	Separate	systems .
Wilmington avenue	Milton avenue and Nevada street	620.62	12-inch pipe	Contract.	Separate	systems .
:	Withington street' Norfolk street and Torrey street	$\begin{cases} 345.40 \\ 204.92 \end{cases}$	15-inch pipe	Contract. S	Separate	systems of
Woolson street	Blue Hill avenue and Norfolk street	1,152.65	1,152.65 12-1nch pipe	Contract. Separate darante	Separate	systems of

Severs built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

Contract. Sewerage works. Contract. Sewerage works. Day labor. Sewerage works. Contract. Sewerage works. Contract. Separate systems of Contract. Rock. Rock.	Day labor. Connection with Met- ropolitan high level sewer. Sep-	Contract. Sewerage works.
200.30         13.1nch pipe           6600.00         12.1nch pipe           70.80         12.1nch pipe           229.50         12.1nch pipe           229.50         12.1nch pipe	39.00 4 feet 9 inches, brick	698.80   12-inch pipe
200.30 600.00 70.80 229.50 12.00	39.00	698.80
A dams street.A shmont street and 200 feet northerlyA shmout streetElm place and A dams street.A shmout streetElm place and A dams street.A shmout streetElm place and A dams street.A shmout streetElm place and A dams street.Boutwell streetNeponset avenue and Train street.Boutvell streetIngh level sever.BorthostaMattapan square and Fremont street.	At Hyde Park line	Dorchester intercepting sewer and Neponset avenue
A dams street. A shmont street Boutwell street. Dordvedstre high level sewer, Section 2.	Dorchester high level sewer At Hyde Park line	Freeport street }

449.55       12.inch plue       Contract. Sewerage works.         250.30       12.inch plue       Contract. Sewerage works. Rock.         389.31       12.inch plue       Contract. Sewerage works. Rock.         250.50       12.inch plue       Contract. Sewerage works. Rock.         250.51       12.inch plue       Contract. Sewerage works. Rock.         250.52       12.inch plue       Contract. Sewerage works. Rock.         252.54       12.inch plue       Contract. Sewerage works. Rock.         252.54       4 foct 3 inches, brick.       Contract. Sewerage works. Rock.         1019.74       4 foct 3 inches, brick.       Contract. Sewerage works. of drainage.         1019.74       1 foct 3 inches, brick.       Contract. Sewerage works. of drainage.         255.00       12.inch plue       Contract. Sewerage works. of drainage.         255.00       12.inch plue       Contract. Sewerage works. of drainage.         255.00       12.inch plue       Contract. Separate systems of drainage.	l February 1, 1906, by Private Parties. 305.20   12-inch pipe.	<b>ITY.</b> 1906, by the City, either by Contract or Day Labor.	178.12     12.4nch pipe     Contract. Sewerage works. Pri.       221.63     10.inch pipe     Contract. Sewerage works. Pri.       288.55     12.4nch pipe     Day labor. Privato.       290.66     12.4nch pipe     Day labor. Privato.       240.66     12.4nch pipe     Day labor. Privato.       217.43     12.4nch pipe     Day labor. Rebuilding.       8.00     12.4nch pipe     Contract. Sewerage works.       8.00     12.4nch pipe     Contract. Sewerage works.	1 February 1, 1906, by Private Parcies.
Groveland street       River street and Manchester street.         Harvard street       Barbarter street and S0 feet southerly.         Harvard street       Dakiand street and S0 feet southerly.         Itollingsworth street       Dakiand street and S0 feet southerly.         In private land       Douchester areal and street southerly.         Riemond street       Douchester areal and fool set southerly.         Riemond street       Dorchester areaue and Washington {         River street       Norchester areau and investigation in the street.         River street       Vashington street and Gocan street.         Section 6.       Naphor street and Harvard street.         Talbot areaue high level sewer, {       Proposed street and Don street.         Yaihoid areaue high level sewer.       Rishington street and Harvard street.         Main street       Harvard street.         Main street       Harvard street.         Main street       Harvard street.         Yaishington street and Don street.       1	Severs built between February 1, 1905, and February 1, 1906, by Private Parties. Sevall street	Roxbury. Sewers built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.	Cherokee street       IIIllside street and angle         Harleston street       Calumet street and Parker IIIl avenue         House of Good Shepherd       Calumet street and Parker IIII avenue         Newbury street       Massachnsetts avenue and 270 feet         Parker IIII avenue       Bed of old sever and Harleston street, and ity streets	Severs build between February 1, 1909, and February 1, 1906, by Frivate Farles.

STREET DEPARTMENT - SEWER DIVISION.

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Release.

10-inch pipe.....

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Mission street ...... Calumet street and Parker Hill avenue,

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Surface Drains built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

	LOCALITY.	Lenoth in	Dimensions and	
Built in	Between	Feet.	Materials.	<b>R</b> етак.
Beacon street	St. Mary's street and Mountfort street.	771.00 508.50 171.60	15-Inch pipe 12-Inch pipe 10-Inch pipe, catch-basin	Contract. Separate systems of drainage.
Bickerstaff street	Haviland street and Astor street	675.86	12-inch pipe	Contract. Separate systems of drainare.
Binney street	Longwood avenue and Smyrna street	408.05	12-inch pipe	Contract. Separate systems of drainage.
Brookline avenue	Brookline avenue Longwood avenue and Smyrna street	353.15	12-inch pipe	Contract. Separate systems of drainage.
Bynner street	Ureighton street and Day street	280.12	12-inch pipe	Contract. Separate systems of drainage.
Calumet street	Tremont street and Sachem street	34.00	10-inch pipe, catch-basin drain	Day labor. Separate systems of drainage
Calumet street	Hillside street and 400 feet southeasterly	261.10 138.12	15-inch pipe.	Contract. Separate systems of drainage. Private.
Darling street	Calumet street and Hillside street	<b>427.75</b> 28.25	12-inch pipe. catch-basin drain.	Contract. Separate systems of drainage. 40 yards rock.
Day street	Minden street and Heath street	367.77	12-inch pipe	Contract. Separate systems of drainage. 224 vards rock.
Ellingwood street	Estey street and 540 feet northwesterly,	566.60	15-inch pipe	Contract. Separate systems of drainage. Private.
Francis street	Brookline avenue and Binney street	336.30	12-inch pipe	
Gainsborough street	Gainsborough street Ilemenway street and St. Stephen street,	$\left\{ \begin{array}{c} 723.91\\ 14.00 \end{array} \right.$	12-inch pipe 10-inch pipe, catch-basin Aroin polaid	Contract. Separate systems of drainage.
Hemenway street	Hemenway street Bryant street and Westland avenue	939.90 173.35 33.63	là inch pipe. 12-inch pipe. 12-inch pipe. 10-inch pipe, catch-basin drain.	Contract. Separate systems of drainage.

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CITY DOCUMENT NO. 40.

of	of	of	of	of Pri-	of	of	of	of	of	of	of
Separate systems Some rock.	Separate systems Some rock,	systems	systems	systems street. I	systems	systems	systems	systems	systems	systems	systems
Separate e Some rock	Separate Some roc	Separate Private.	Separate		Separate	Separate	Separate systems	Separate . Private.	Separate Private.	Separate Private.	Separate systems
Day labor. drainage.	Day labor. drainage.	Contract. Separate systems drainage. Private.	Contract. 5 drainage.	Contract. Separate drainage. Estey vate	ct.	Contract. Separate systems drainage.	Contract. 5 drainage.	Contract. Separate drainage. Private	Contract. Separate drainage. Private.	Contract. Separate drainage. Private.	Contract. 8 drainage.
20-luch from pipe	Sound by the second sec	12-inch pipe	18-inch pipe, catch - b a si n drain	24-Inch pipe 15-Inch pipe 12-Inch pipe	12-inch pipe	12-inch pipe	15-inch pipe. 15-inch pipe. 12-inch pipe. 10-inch pipe. catch - basin drain	24. Inch pipe. 20. Inch pipe. 18. Inch pipe. 15. Inch pipe. 16. Inch pipe. 10. Inch pipe.	dipe	18-inch pipe	12-1uch pipe
12,00 206.85 179,09 524,14 395,00 879,09 879,09 95,191	28.41 28.41 99.50 12.00	777.60 469.40	450.83 72 00	$     \begin{array}{c}       71.55 \\       210.40 \\       174.80 \\     \end{array} $	669.43 33.00	157.38 3.00 50.20	272.60 764.20 84.00	432.07 324.00 212.20 252.13 63.35	446.50 599.40 352.20	373.15 293.30	122.00
	Tremont street and Wait street	Calumet street and 800 feet westerly	. St. Mary's street and Mountfort street.	Ileath street and Fisher avenue	Estey street and Fisher avenue	Huntington avenue and Worthington	Mountfort street Beacon street and Audubon road	St. Mary's street and Mountfort street	St. Mary's street and 1,400 feet easterly, $\hat{\xi}$		and Huntington avenue and Ruggles
House of Good Shepherd	Huntington avenue	Iroquois street	Ivy street	Lawn street and Estey street	Lawn and Hayden streets	Longwood avenue {	fort street	Passageway between Beacon } and Ivy streets	Passageway between Mountfort ) street and B. & A. R.R	Passageway north of Ivy street.	Ruggles street and Vancouver street

STREET DEPARTMENT — SEWER DIVISION. 147

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Surface Drains built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

It	LOCALITY.	Length In	Dimensions and	Domenica	- 	
Built in	Between	féet.	Materials.	TEHION		
Smyrna street	Smyrna street Brookline avenue and Binney street	347.85	347.85 242-inch pipe	Contract. Separate systems of drainave.	te systeme	of
St. Alphonsus street	Smith street and Tremont street	811.29	12-inch pipe		te systeme	of
St. Stephen street	St. Stephen street Bryant street and Massachusetts ave Excavation only	<b>AT</b>	Excavation only.		te system	of
Vancouver street	Vancouver street	481.09	481.09 12-Inch pipe		te systeme	of
Wait street	Wait street	{ 286.85 81.95	12-Inch pipe.	Contract. Separate systems of drainage. Private	te systeme	of
Westland entrance	Westland entrance		Excavation only.		te system:	of

# South Roxbury.

Severs built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

Beach Glen street	Fort avenue and 190 feet south	188.60	188.60 12-inch pipe	Contract. Sewerage works.	9
Bower street	Bower street Humboldt avenue and Walnut avenue	328.50	328.50 10-inch pipe	Contract, Separate systems drainage.	10
Elm Hill avenue.	Wenonah street and 100 feet northeast Sussex street and Shawmut avenue	99.25 572.25	12-inch pipe	Contract. Sewerage works. Day labor. Sewerage works.	
Hartwell street.	Hartwell street	124.80		Contract. Separate systems	of
Ifowland street	Warren street and Elm Hill avenue	378.65	378.65 12-inch pipe	Contract. Separate systems	of
Maywood's brook in Ruggles   street	Maywood's brook in Ruggles Cabot street and Shawmut avenue	676.93 650.84 10.72 8.50	24-inch pipe	4 inch pipe	of of

#### CITY DOCUMENT No. 40.

Seners build between February 1, 1905, by Private Parties.         Seners build between February 1, 1905, and February 1, 1906, by Private Parties.         ect
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STREET DEPARTMENT - SEWER DIVISION. 149

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Surface Drains built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

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Loc	Locality.	Length in	Dimensions and	-	o la contro		
Built in	Between	feet.	Materials.	-	Remarks.		1
Harold street	Munroe street and Townsend street	325.05	12-inch pipe	Contract.	Separate	systems	of
Hartwell street.	Georgia street and Cheney street	314.00	12-inch pipe		Separate	systems	of
Hollander street.	Harold street and Crawford street	287.20	12-inch pipe	Contract.	Separate	systems	of
Homestead street	Humboldt avenue and Elm Hill avenue.	549.20	20-inch pipe	Contract.	Separate	systems	of
Howland street	Warren street and Elm Hill avenue	48.00			Separate	systems	of
Humboldt avenue	Walnut avenue and Laurel street	235.04 235.04 236.86 80.00	24 inch pipe	Contract. Separate systems of drainage.	Separate	systems	of
Hutchings street	Hutchings street	568.15 522.30 28.00	15-inch pipe 12-inch pipe 12-inch pipe	Contract.	Separate	Separate systems of	of
Lansing street	Sherman street and Warren street	28.00	12-inch pipe	Contract.	Separate	Separate systems	$\mathbf{0f}$
Maywood's brook, in Ruggles street	Cabot street and Shawmut avenue	19.76 14.80 27.98	11 feet $\times$ 7 feet 6 in., brick 3 feet $\times$ 3 feet 18 inch pipe	Day labor.	Separate systems of	systems	of
Munroe street	Warren street and Humboldt avenue	196.50	15-inch pipe.	Contract.	Separate	systems of	of
Munroe street	Walnut avenue and 625 fect cast	<pre>107.50 509.50 3.00</pre>	15-inch pipe	Contract.	Separate	Separate systems of	of
Nazing street	Blue Hill avenue and Maple street	175.70 503.15	15-inch pipe	Contract.	Separate	systems of	of
Park View street.	Hutchings street and Seaver street	331.85	12-inch pipe	Contract.	Separate	Separate systems of	of

CITY DOCUMENT NO. 40.

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systems	systems	systems	systems	Bystems	systems	systems	systems
Separate	Separate systems of	Separate	Separate	Suparate	Separate systems of	Separate	Separate
Contract. drainage.	Contract. drainage.	Contract. Separate systems of		Contract.	Contract.	~~	~~~ ·
432.70 15-inch pipe			114.40 15-inch pipe	216.60 12-Inch pipe	400.50 12-inch pipe	15-inch pipe	15-inch pipe
$\begin{array}{c} 432.70\\ 676.75\\ 22.00\end{array}$	112.35 395.00 24.00	498.20	114.40 322.35	216.60	400.50	488.60 403.80	172.75 403.30
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Perrin street Moreland street and Alaska street	Rockland street Rockland avenue and Warren street	Schuyler street Maple street and Elm Hill avenue	Southwood street	Sunderland street Blue Hill avenue and Warren street	Wanmbeck street Wenonah street and Warren street	Waverly street Blue IIill avenue and Perrin street	Wayne street

City Proper.

Severs built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

250.53   12-inch pipe Day labor. Severage works.	Day labor. Rebuilding. Sewerage	15-Inch pipe	12-Inch pipe	12-inch pipe	Day labor.	12-inch pipe	Day labor. Contract. Sewerage works.
0.53 12-inch pipe	191.57 15-inch pipe		8.15   12-Inch pipe  23.35   6-inch × 10-inch, wood	5.90         12-inch pipe           4.00         12-inch iron pipe		$12.00$ $\left\{ \begin{array}{c} 12.00 \\ 24.10ch \\ $	311.50 6 feet × 6 feet, wood Contract. Sewerage works.
						54	
Atlantic avenue Clinton street and Commercial wharf 250.53 12-inch pipe Day labor. Severage		At Commercial street Cross street and Ferry street	Washington street and Harrison ave	High street oliver street and Hartford street	At Otis place.	At Brimmer street	Prospect street
antie avenue	Charter street	Chatham street	Hayward place	dı street	Mt. Vernon street	Pinckney	Prospect street.

#### STREET DEPARTMENT - SEWER DIVISION. 151

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Surface Drains built between February 1, 1905, and February 1, 1906, by the City, either by Contract or Day Labor.

	Kemarks.	Contract. (Approaches to Cove street bridge.) Sewerage works. Contract.
Dimensions and	Materials.	12.inch pipe. 10.inch pipe. 4 ettch-brains 1 drop intet. 12.inch pipe.
Length in	Feet.	$\left\{\begin{array}{c} 215.84\\ 299.43\\ 102.00\\ 21.50\end{array}\right\}$
LOCALITY.	Between	sion Kneeland street and 430 feet southerly Irvington street and B. & A. railroad
Loc	· Built In	Atlantic avenue extension St. Botolph street

Sewers built by the Boston Transit Commission, in Connection with the Washington Street Tunnel, between February 1, 1905,

and February 1, 1906.

12-inch pipe. 1 foot 3 inches × 3 feet 6 inches, concrete. 3 feet, concrete. 3 feet, concrete. 13.inch pipe. 13.inch pipe. 13.inch pipe. 24.inch pip	$\begin{array}{c} 2 \ \text{fect} \ 4 \ \text{inches} \times 3 \ \text{fect} \ 6 \\ \text{inches} \ \text{outracts} \\ 3 \ \text{fect} \ 6 \ \text{inches} \\ \text{inches} \ \text{brick} \\ 24 \ \text{inches} \ \text{pipe} \\ 24 \ \text{inches} \ \text{pipe} \end{array}$
148 148 148 148 148 148 148 148 148 148	48 194 56 56
East tunnel wall       Bennet street and 114 feet northerly         East tunnel wall       Washington st. and 150 feet sontherly         Washington street       Washington st. and 150 feet sontherly         Washington street       Near Essex street and Besex street         Bayax theole       Near Essex street and Breact street         Washington street       Near Bisex street and Breact street         Bayax theole       Near Boylston st. and J. Steet satters street         Washington street       Near Boylston st. and Mainfloon st.         Washington street       Boylston street         Washington street       Boylston and Avery street         Washington street       Boylston and Avery street	Washington street       Near Winter st. and Shuman's Corner         Summer street       Washington st. and near Hawley st         Temple place       Washington street and 50 fect west         Winter street       Near Washington street and Shuman's Corner
East tunnel wall East tunnel wall East tunnel wall Washington street Basex street Hayward place Washington street Washington street Washington street	Washington street

24-inch pipe.	15-inch pipe.	18-inch pipe.	18-inch pipe.	15-inch pipe.	24-inch pipe.	15-inch pipe.	15-inch piùe.	12-inch pipe.	15-inch pipe.	12-inch pipe.	20-Inch pipe.	24.inch pipe.	15 inch nine	10-THOU DIDO.	27 inches, concrete.	· 12-inch pipe,		z4-inch pipe.	15-inch pipe.	
110	475	488	396	513	261	88	335	127	281	94	27	134	88	20	30	105	001	204	118	
Summer street Washington street and 70 feet east	-	Bedford and Summer streets		Bromfield and School streets	-	Williams court and near Court avenue.			79 feet north of Franklin st. and Milk st.	Near Spring lane and Spring lane		-	2	south of State street	-	36	feet east of Washington street	Washington street and eastward	Washington street and eastward	
Summer street	Washington street	Washington street	Washington street	Washington street	Washington street	Washington street	Washington street	Washington street	Washington street	Washington street	Spring lane	Washington street	Washington street		Washington street	Water street		Water street.	Milk street	

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East Doston.

 $\begin{array}{c} 93.39\\ 213.54\\ 360.81 \end{array}$ 

Chelsea street....... Curtis street and Eagle square...... Eagle street and private land.... Shelby street and sewer yard......

#### CITY DOCUMENT NO. 40.

1891, a	1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	4 cts of 189	e, or Special Acts referrin	g thereto.
Ashley street Bennington-street houlevard Wordsworth street	Bennington street and Breed street < Chelsea street and Belle Isle inlet Saratoga street and Pope street	$\left\{\begin{array}{c} 37.00\\ 104.00\\ 288.00\\ 48.70\\ 77.60\\ 1,150.40\end{array}\right\}$	12-inch pipe, sewer	Day labor. Day labor. Day labor.
Surfare Drains built	Surface Drains built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.	ruary 1, 19	01, by the City, either by	Contract or Day Labor.
Summer street	Border street and New street	97.00	97.00   15-inch pipe	Day labor.
Severs built betwe	<b>Charlestown.</b> built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.	Charlestown. bruary 1, 1901, l	by the City, either by Con	tract or Day Labor.
Alford street. Arlington avenue. Beacham street	Mystic river and Everett line Alford street and Beacham street Arlington avenue and West street Sever street and Carlor street	$\begin{array}{c} 75.00\\ 262.36\\ 383.18\\ 383.18\\ 1,410.63\end{array}$	12-inch pipe	Day labor. Day labor. Day labor. Day labor. Supplementary.
Surface Drains built	Drains built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.	ruary 1, 19	01, by the City, either by C	ontract or Day Labor.
Beacham street	West street and Main street	150.30	150.30 12-inch pipe	Day labor.

#### STREET DEPARTMENT - SEWER DIVISION. 155

ier by Contract or Day Labor.		dis. Kemarks.	rilow	Severs built between February 1, 1900, and February 1, 1901, in Streets laid out under chapter 333 of the Acts of 1891, as amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	er	inches, brick { face drain face drain face drain face drain basin drain basin drain basin drain
by the City, eith	Dimensions and	Materials.	10-inch pipe	out under chap l Acts referring	18.inch pipe, sewer. 12.inch pipe, sewer. 15.inch pipe, sewer. 6.inch pipe, house drain 0.1n. pipe, catch housin drain. 20 catch hasin drain.	3 feet × 2 feet 9 inches, brick surface drain 30.1nch pipe, surface drain 24.1nch pipe, surface drain 18.inch pipe, surface drain 12.inch pipe, surface drain 10.in pipe, nouse drain 6.Inch pipe, house drain 17 catch-basin surface
ry 1, 1901,	Length in	Feet.	$\left\{\begin{array}{c}172.87\\981.33\\73.00\\12.42\\826.05\end{array}\right.$	Streets laid 2, or Specia	588.08 341.60 69.50 1,955.38 600.00	555.65 338.16 175.53 175.53 165.88 347.09 1,520.99
Sewers Built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.	LOCALITY.	Between	Fairbanks street	y 1, 1900, and February 1, 1901, in Streets laid out under chapter 323 ( chapter 418 of the Acts of 1892, or Special Acts referring thereto.	Brighton avenue and Washington street,	Washington street and Newton line
Sewers Built bet	Γ	Built in	Fairbanks street	Severs built between Februar	Cambridge street	Tremont street

Brighton.

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#### CITY DOCUMENT No. 40.

Day labor.	Day labor.	Day labor.	Day labor.	Day labor.	Day labor.
42.96 5 feet, circular brick Day labor.	4 feet 5 inches, circular brick       Day labor.         1 overflow manbole       Day labor.	1 tate-gate manhole	148.65 5 ft. $\times$ 6 ft., concrete conduit, Day labor.	265.50 30-inch pipe	998.96 <b>15-inch pipe</b> 998.16 <b>12-inch pipe 12-inch pipe</b>
42.96	1,963.75	35.00	148.65	265.50	998.96 67.33
ets	sel	s street	Harvard	Harvard	treet
aneuil Valley brook. Conduit Maln, Brook and Faneull streets	"areull Valley brook. Conduit ) In Fairbanks street and pri- vate land	Fancuil Valley brook. Conduit Dakhand street and Fairbanks street	Commonwealth avenue and Harvard	Commonwealth avenue and Harvard avenue	Washington street Dighton place and Winship street

Surface Drains built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.

Sewers built between February 1. 1900, and February 1. 1901 by Private Danties

· · · · · · · · · · · · · · · · · · ·	
	12-inch pipe. 10-inch pipe. 10-inch pipe. 10-inch pipe. 10-inch pipe. 15-inch pipe. 12-inch pipe. 13-inch pipe. 13-inch pipe. 13-inch pipe. 13-inch pipe. 10-inch pipe. 10-inch pipe. 10-inch pipe. 10-inch pipe.
	260.10 519.61 519.61 243.95 243.95 244.65 244.65 244.65 54.41 739.15 54.41 739.15 54.00 56.000 56.000 56.000 56.000 56.000 56.000 56.000 56.0000
	A dams street.       Existing sewer and Evert street.         Brooksale street.       Evest and Holson street.         Brooksale street.       Evest and Holson street.         Brooksale street.       Raneleigh road and Puscon street.         Brooksale street.       Raneleigh road and Puscon street.         Brooksale street.       Raneleigh road and Puscon street.         Coumnings road.       Corey road and Puscon street.         Donnybrook road.       Faneuli street and Holson street.         Idlewild street.       Holnes avenue and Commonwealth         Mardock street and Holson street.       Mardock street and Holson street.         Naple avenue.       Faneuli street and Holson street.         Neweastle road.       Houbart street and Holson street.         Kaneleigh road.       Hobart street and Holson street.         Kaneleigh road.       Hobart street and Holson street.         Wareleigh road.       Hobart street and Holson street.         Wareleigh road.       Hobart street and Holson street.         Wareleigh road.       Hobart street and Holson street.
	Adams street

# STREET DEPARTMENT --- SEWER DIVISION.

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Surface Drains built between February 1, 1900, and February 1, 1901, by Private Parties.

Lo	LOCALTTY.	Leneth in	Dimensions and	Domotio
Built in	Between	Feet.	Materials.	Nellarks.
Idlewild street	Holmes avenue and Commonwealth avenue	239.75	239.75 23.15 12-inch pipe.	

# West Roxbury.

Severs built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.

Contract.	Contract. Day labor.	Contract.	Day labor.	Contract.	Day labor.
251.50 20-inch pipe	12-inch pipe	18-inch pipe	12-inch pipe	l,369.03   12-inch pipe	200.45   12-inch pipe
{ 251.50 117.00	650.00 650.00	442.70	18.662	1,369.03	200.45
Bellevue avenue	Belgrade avenue and Lorraine Malcolm street and Colberg avenue Breet Corey and Tark Streets	Metropolitan sewer and Baker street	Selwyn street and Walter street	La Grange street and outlet IN ( Dent street and Centre street	Morrison street and Walter street
vue avenue	Belgrade avenue and Lorraine   street	Gardner street	Knoll street.	La Grange street and outlet in (	Selwyn street

Severs built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor, under the Direction of the Stony Brook Improvement Office.

2 feet  $\times$  3 feet 6 inches, brick. Low level sewer. 1,018.00 Private land...... Boylston avenue and Cornwall street...

Surface Drains built betwee	Surface Drains built between February 1, 1900, and February 1, 1901, 09 the Cuty, eaher by Contract or Day Labor, under the Direction of Stony Brook Improvement Office.	r, 1901, Impre	vement Office.	
Boylston avenue and Green st { Private land	Cornwall street and Brook crossing at Green street	$\left\{\begin{array}{c} 1,225.00\\ 1,018.00\end{array}\right.$	9 feet $\times$ 9 feet 6 inchea, brick. 15 ft. $\times$ 17 ft. 6 in., brick.	
Sewers built between Febru An	Sewers built between February 1, 1900, and February 1, 1901, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1893, or Special Acts referring thereto.	1, in Street of 1892, or	s laid out under chapter · Special Acts referring th	323 of the Acts of 1891, as vereto.
Congreve street	<ul> <li>South street and Centre street</li> <li>Nashington street and Brandon street.</li> <li>Washington street and Glen road</li> <li>Centre street and end of street</li> </ul>	$\left\{\begin{array}{c} 414.00\\ 69.75\\ 27.50\\ 277.50\\ 138.00\\ 138.00\\ \end{array}\right.$	6-Inch pipe, house drain 6-Inch pipe, house drain 10-In. pipe, auch-basin drain, 4 eater-bisins 12-inch pipe, sever	Day labor. Contract. Contract. Day labor.
Perkins street and outlet in Zamora street		220.05 142.00 1,155.62 645.83	12-inch pipé, sever laid 10-in. pipe, catch-bash drain laid 12-in. pipe, catch-bash drain laid	Contract.
South street	Jamaica street and Arborway	$\left\{\begin{array}{c} 828.00\\ 120.00\\ 180.00\\ 41.00\end{array}\right\}$	laid 6-luch pipe, house drain laid. 11 catch basins built	Day labor. 120 feet of 8 feet 6 for the by 6 feet is shown under Goldsmith brook.
Stratford avenue	Clement avenue and Anawan avenue	$\left\{\begin{array}{c}122.00\\515.00\\653.80\\653.80\end{array}\right.$	B) acted basins	Contract. Contract.

STREET DEPARTMENT - SEWER DIVISION.

Severs built between February 1, 1900, and February 1, 1901, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	Leneth in Dimensions and		Newbury street and Beech street 255.13 10:inch pipe, sewer 255.13 10:inc pipe, catch-basia drain, 255.22 6-inc, pipe, catch-basia drain, 255.22 6-inch pipe, invoise drain,	Surface Drains built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.	Brandon street and Cornell street18.0010.in. pipe, catch-basin drain.Day labor. This includes 120 feetKeyes street and Woodman street184.008 feet 6 inclues × 6 feet, brick.0 of steet vick brick.0 of steet vick brick.Keyes street and Woodman street8 184.008 feet × 6 feet, brick0 of steet × 6 feet, brick0 of steet vick brickAshland street and Sharon street8 0.863 feet, circular brick8 0.863 feet, circular brickAshland street and Sharon street0.01pipe, catch-basin drain.9 Contract.	Culverts built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.	Near Washington street
uary 1, 1900, and February tended by chapter 418 of the	LOCALITY.	Between		lt between February 1, 1900, c	• • • • • • • • •	between February 1, 1900, and	
Severs built between Febr An	I service services	Built in	Westbourne street and outlet in ) Cornell street	Surface Drains bui	Bellevue avenue	Culverts built	Beech street.

West Roxbury.-- Concluded.

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							s of 1891,		
ties.			act or Day Labor.	Day labor. Contract.	Contract and day labor.	Day labor. Rebuilding.	upter 323 of the Activeto.	Day labor.	
ury 1, 1901, by Private Par	12-inch pipe. 12-inch pipe. 10-inch pipe. 12-inch pipe.		y the City, either by Contre	12-inch pipe	16-inch pipe	1-foot 18-inch tide-gate, M.H. 5 feet, circular brick	i Streets laid out under ch Special Acts referring the	12-inch pipe	drain 12 catch basins
and Februe	$\begin{array}{c} 261.85\\ 630.15\\ 425.28\\ 500.45\end{array}$	Dorchester.	y 1, 1901, b	$\begin{array}{c} 744.05\\ 1,010.21\\ 190.00\\ 1,042.93\end{array}$	905.60 311.00	24.00	the City, in of 1892, or	$\begin{array}{c} 554.13\\ 686.00\\ 491.18\\ 162.00\end{array}$	
Severs built between February 1, 1900, and February 1, 1901, by Private Parties.	Westbourne st. and Eastbourne st Belgrade avenue and Rexhame street Beech street and Cornell street Pond street and Centre street	Dorc	Sewers built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.	Ceylon street Columbia road and Quiney street Cottage park Bowdoin street, westerly	Dorchester-brook sewer and Edward Everett square	Private land Off Dorchester ave., near Freeport st	Severs built between February 1, 1900, and February 1, 1901, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	Westville street and Bowdoin street {	
Ser	Beech street		Sewers built betr	Ceylon street	Massachusetts avenue	Private land	Severs built between Februar as	Draper street	

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Severs built between February 1, 1900, and February 1, 1901, by the City, in Streets laid out under chapter 323 of the Acts of 1891,

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L	LOCALITY.	Length in	Dimensions and	
Built in	Between	Feet.	Materials.	Kemarks.
Hancock street	Columbia road and Winter street	280.00 95.00 134.00	3 feet 6 inch, circular brick, catch-busin drain	Day labor.
Moseley street	Crescent avenue and Columbia road	635.00 50.00 6.00	6 inch pipe, house drain 12-inch pipe 6-inch pipe, house drain	Contract.
Annabel street	Columbia road and Sumner street	21.00	6-inch pipe, house drain 10-in. pipe, catch-basin drain, 1 catch basin	Day labor.
Barry street	Quincy street and Richfield street	487.01 332.00 73.00	12-inch pipe. 6-inch pipe, house drain 10-in, pipe, catch-basin drain,	Contract and day labor.
Boston street	Mt. Vernon street and Columbia road	$\left\{\begin{array}{c} 244.80\\ 331.00\\ 129.00\end{array}\right.$	12-inch pipe. 6-inch pipe, house drain 10-in. pipe, catch-basin drain,	) Day labor.
Conrad street	Sumner street and end	26.00	7 catch-basins 6-inch pipe, house drain	) Day labor.

Surface Drains built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.

Day labor.	Day labor.	<sup>7</sup> Contract. Contract. Contract.	
1,124.40 5 feet circular brick Day labor.	18-inch pipe	4 feet 6 inches, circular brick, contract. 4 feet 6 inches, circular brick, Contract. 4 feet 6 inches, circular brick, Contract. 4 feet 6 inches, ofreular brick, Contract.	
1,124.40	115.00	223.95 4 216.77 4	
Columbia road and Quincy street		Tenean creek, north branch Josephine street and Leroy street Tenean creek, north branch Charles street and Josephine street Tenean creek, north branch Leroy street and Westville street	
Ceylon street	Kilton street	Tenean creek, north branch Tenean creek, north branch Tenean creek, north branch	

Severs built between February 1, 1900, and February 1, 1901, by Private Parties.

12-inch pipe. 12-inch pipe. 12-inch pipe.
184.30 544.82 491.58
Willis street and East Cottage street Clayton street and Duncan street Greenwood street and Glenway street
Chase street. Fenton street

# Sewers Abandoned or Rebuilt between February 1, 1900, and February 1, 1901.

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10-in. pipe, eatch-basin drain, Day labor. Rebuilt.

55.00

Waumbeek street and Hollander street..

Humboldt avenue.....

	B and Seventh streets       (()         B street.       F         Private land, formerly Blake st.       D         Silver street.       B	B and Seventh streets       South         B street.       (Outlet.) Dorchester ave. and South Bay,         Private land, formerly Blake st.       Fourth street and Silver street.         Silver street.       B street and Boston street.		<ul> <li><i>bston.</i></li> <li><i>biton.</i></li> <li><i>bi</i></li></ul>	Day labor. R Day labor. R Contract. Rel Day labor. R	duilt. duilt. built. built.
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Rebuilt. Rebuilt. Rebuilt. Rebuilt. Rebuilt. Rebuilt.	
Day labor. Day labor. Abandoned Day labor. Day labor. Day labor. Day labor.	
<ul> <li>44.00</li> <li>10-Inch pipe</li> <li>37.25</li> <li>2 fet 2 in × 2 ft in, brick. Day labor. Rebuilt.</li> <li>24.00</li> <li>5 feet, circular brick. Day labor. Rebuilt.</li> <li>24.00</li> <li>5 feet, circular brick</li> <li>25.00</li> <li>12-inc pipe. catch-basin drain, Day labor. Rebuilt.</li> <li>25.00</li> <li>12-in. pipe, catch-basin drain, Day labor. Rebuilt.</li> </ul>	
$\begin{array}{c} {}^{44.00}_{25.67}\\ {}^{37.25}_{25.67}\\ {}^{24.00}_{195.67}\\ {}^{95.00}_{22.00}\\ {}^{122.00}_{0}\end{array}$	ton.
· · · ·	Brighton
Boston street	B
Boston street	

STREET DEPARTMENT --- SEWER DIVISION.

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24-inch pipe..... Rebuilt.

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Falrbanks street...... Faneuil street and Washington street...

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Sewers built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.

<b>F</b>	LOCALITY.	T.anath in	Dimonofour oud.	
Built in	Between	Feet.	Materials.	Remarks.
Corbet street. Maxwell street. Maxwell street. Brunswick street. Norrolk street. Selden street. Millet street. Butt street. Templeton street.	Morton street and Hopkins street Capen street and Nelson street Dapwing yard	397.74 536.85 536.85 140.16 472.05 234.00 809.00 809.00 450.23 75.00 345.60	12-inch pipe, sewer 12-inch pipe, sewer	Contract. Some rock. Day lahor. Day lahor. Day lahor. Day lahor. Day lahor. Considerable rock. Day lahor. Day lahor. Day lahor.
Severs built between Februc of 1891,	Severs built between February 1, 1900, and February 1, 1901, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1893, or Special Acts referring thereto.	by the C Acts of 18	ity, in Streets laid out 1 92, or Special Acts referr	inder chapter 323 of the Acts ing thereto.
Florida street	Florida street Lonsdale street and Templeton street	178.50 113.00	6-Inch pipe, house drain	Day labor.
Callender street	Callender street Tucker street and Don street	120.50 963.50 600.35 240.40	Sinch pipé, sewer 6 inch pipe, house drain 24 in. pipe, catch-basin drain, 15 in. pipe, catch-basin drain,	Day labor. Mostly rock.
Blue Hill avenue	Walk Hill street and River street	24.00 27.33 190.93	12-in. pipe, catch-basin drain, 15-inch pipe, sewer	Day labor. Mostly rock.
Lauriat avenue	Lauriat avenue Norfolk street and Tucker street	09.04 222.12 12.99 29.30	24-11. Pipe, catch-basin drain, 15-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 10-in. nine. catch-basin drain,	Contract. Considerable rock.
Van Winkle street {	Dorchester ave. and Shawmut Branch R.R.	364.00 323.37 323.37 346.05 80.64	6-inch pipe, house drain 15-in. pipe, circular Prick 15-in. pipe, catch-basin drain. 12-in. pipe, catch-basin drain. 10-in. pipe, catch-basin drain. 5 catch-basins.	Contract.

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e drain	ie drain Jusin drain, Jossin drain, Jossin drain, Jossin drain,	best of the second seco	Surface Drains built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.	basin drain, } Day labor. Considership root	~ ~	~ ^	basin drain, basin drain, basin drain,   Day labor.	brick	Dasin drain, basin drain, basin drain, basin drain,	basin drain, Day labor.	basin drain, busin drain, busin drain, basin drain, basin drain,	ſ
<ul> <li>139.00 6.inch pipe, house drahm.</li> <li>164.74 20.in. pipe, catch-basin drain, 16.39 15.in. pipe, catch-basin drain, </li></ul>		2 drop inlets.144.006-Inch pipe, house drain.248.1030-in. pipe, catch-basin drain.	1, 1901, by the City,	492.45 15-in. pipe, catch-basin drain, 30.52 10-in. pipe, catch-basin drain,	2 catch-basins75.0018-in. plpc, catch-basin drain,68.4012-in. pipe, catch-basin drain,		17.00 24-11. pipe, catch-basin drain, 17.00 12-in. pipe, catch-basin drain, 22.00 10-in. pipe, catch-basin drain,	:	20.00 20-11. Pipe, catch basin drain, 2005.94 15-11. Pipe, catch-basin drain, 055.94 15-11. Pipe, catch-basin drain, 307.00 12-11. Pipe, catch-basin drain,	62.78 15-in. pipe, catch-basina. 12.67 12-in. pipe, catch-basin drain, 12.67 12-in. pipe, catch-basin drain, 1 catch-basin	95.35 30.in. pipe, catch-basin drain, 235.70 24.in. pipe, catch-basin drain, 483.08 18.in. pipe, catch-basin drain, 116.34 15.in. pipe, catch-basin drain, 103.00 12-1n. pipe, catch-basin drain, 103.00 12-1n. pipe, catch-basin drain,	I catch-basin
		<u> </u>	00, and February			<u>;</u> ;					<u> </u>	
Ashmont street and Roslin street	Dorchester avenue and Florida street	Moultrie avenue and Kenwood street	t between February 1, 19	River street and Churchill place	Bernard street and Wentworth street	Callender street and Lauriat avenue.	Ashmont street and Lonsdale street	Callender street and Franklin Field	Adams street and Minot street	Oakland street and Blue Hil	Milton branch railroad and	
Montague street	Shepton strect	Se <b>a</b> born street	Surface Drains buil	Washington street	Norfolk street	Private land	Tenean creek	Lyons street	Neponset avenue	River street	Surface drain in private land	

Concluded.
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South

Surface Drains built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.

ľ	LOCALITY.	Length in	Dimensions and	Domonika
Built in	Between	Feet.	Materials.	"Yeringt PP
Tenean creek Tenean creek Davenport brook Tenean creek Canterbury branch of Stony brook Datkand garden fork, Canter- Dary branch of Stony brook Dury branch of Stony brook	Gibson street and Centre street Park street 304 feet southerly Bailey street and Burt street Ashmont street and Villowwood street Middleton st. and Willowwood st Talbot avenue and Wheatland avenue Franklin Field and Bernard street	$\left\{\begin{array}{c}724.15\\13.60\\334.90\\334.90\\334.90\\35.00\\184.00\\35.00\\35.00\\34.90\\35.00\\35.00\\34.017\\55.00\end{array}\right\}$	6 feet, $\leq 6$ feet, brick 6 ft. $6$ in. $\leq 6$ ft. $6$ in., brick 4 feet $\times 4$ feet, wooden box 4 feet $\leq 1$ circular brick, 3 feet $6$ inches, circular brick, 24.in. pipe, catch-basin drain, 24.in. pipe, catch-basin drain, 12-in. pipe, catch-basin brick, 3 feet $6$ inches, circular brick, 7 feet, circular brick	<ul> <li>Day labor.</li> <li>Contract. Mostly rock.</li> </ul>
Culverts built be	Culverts built between February 1, 1900, and February 1, 1901, by the City. either by Contract or Day Labor.	ry 1, 1901,	by the City, either by Cont	ract or Day Labor.
Mascot street	Near Dumas street	60.24 60.24	24-inch pipe, culvert	Day labor. Foundation laid on Day labor. Foundation laid on piles. Piles by contract. Day labor.
Se	Sewers built between February 1, 1900, and February 1, 1901, by Private Parties.	and Febru	ary 1, 1901, by Private Pa	rties.
Woolson street. Hosmer street. Harlem street. Gateley street. Beaumont street.	Blue Hill arenue and 300 feet easterly Blue Hill arenue and 250 feet easterly Blue Hill arenue and Norrolk street Outlet in Samoset street Arundel street and summit of hill	290.42 227.76 298.00 384.55 337.62	12-inch pipe, sewer. 12-inch pipe, sewer. 12-inch pipe, sewer. 12-inch pipe, sewer. 12-inch pipe, sewer.	

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Humboldt avenue	Humboldt avenue	84.50 125.00 310.50 830.50	12-inch pipe	Day labor. Day labor. Day labor
Massachuscus avenue		24.00	15-inch pipe and a start of the	· Torta fan
Severs built between Fi of 1891,	Severs built between February 1, 1900, and February 1, 1901, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	901, by the Acts of 18;	City, in Streets laid out 92, or Special Acts referri	under chapter 323 of the Acts ing thereto.
Cardington street	Fenner street and Cobden street Fenner street and Cobden street	46.00	10.in. pipe, catch-bash drain,       Contract.         3 catch-basins       10.in. pipe, catch-basin drain,         2 catch-basins       Contract.	Contract.
Sewe	Severs built between February 1, 1900, and February 1, 1901, by Private Parties.	and Febru	ary 1, 1901, by Private I	Parties.
Chickamauga park	Chickamauga park	115.45 167.97	12-inch pipe. 12-inch pipe.	
Sewers built betw	Sewers built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.	y 1, 1901,	by the City, either by Con	itract or Day Labor.
3ainsborough street	Gainsborough street	<pre>107.83 33.43 54.93 25.00</pre>	là-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe	Day labor.

Roxbury.

	Locality.			
Built in	Between	Length in Feet.	Dimensions and Materials.	Remarks.
Passageway	St. Botolph street and Providence Di- vision, N.Y., N.H. & H. B. R. Parker street and 600 feet westerly Kenwood road and Huntington avenue, Calumet street and Hillside street	<pre>111.00 53.88 629.09 29.73</pre>	10-inch pipe12-inch pipe12-inch pipe12-inch pipe	Day labor. Contract. All rock. Contract. Day labor.
Severs built between Februar	Severs built between February 1, 1900, and February 1, 1901, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts relating thereto.	the City, in s of 1892, or	. Streets laid out under cha. Special Acts relating there	pter 323 of the Acts of 1891, as sto.
Gainsborough street	Gainsborough street Hemenway street and St. Stephen street,	166.18 166.18 420.39	$30 \text{ inch} \times 36 \text{ inch, brick sewer,}$	Day labor.
Aberdeen street	Beacon street and railroad		10-inch pipe, sewer 10-inch pipe, sewer 10-in. pipe, catch-basin drain, 6-inch pipe, house drain	Contract.
Brookline avenue	Brookline avenue Longwood entrance and Riverway	93.00	1 catch-basin 8-inch pipe, house drain	) Day labor.
Surface Drains bui	Surface Drains built between February 1, 1900, and February 1, 1901, by the City, either by Contract or Day Labor.	bruary 1, 15	01, by the City, either by C	ontract or Day Labor.
Kenwood road (Kenwood road) and Kempton street)	Vila street and Kempton street	,	258.96 18-inch pipe Contract.	Contract.

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Roxbury. -- Concluded.

# CITY DOCUMENT NO. 40.

Contract.

 15-inch pipe.
 12-inch pipe.

 10-inch pipe.
 10-inch pipe.

 11 drop inlet.
 1

Kenwood road and Huntington avenue,

Kempton street (Kenwood road / and Kempton street) ......... }

 $237.49 \\ 8.00 \\ 27.67$ 

rties.	Contract No. 1. Contract No. 2.	ate Parties.	Contract No. 2.	tet or by Day Labor.	Piles by contract. Day labor. Piles by contract. Day labor. Day labor. Day labor. Day labor. Pay labor. Pay labor. Day labor. Day labor. Day labor. Day labor.
Sewers built between February 1, 1900, and February 1, 1901, by Private Parties.	l8.inch pilpe. 16.inch fron pilpe. 18.inch pilpe. 12.inch pilpe. 12.inch pilpe. 12.inch pilpe. 12.inch pilpe.	Surface drains built between February 1, 1900, and February 1, 1901, by Private Parties.	10-inch pipe           10 catch-basins           7 drop inlets	<b>City Proper.</b> Sewers built between February 1, 1900, and February 1, 1901, by the City, either by Contract or by Day Labor.	$\begin{array}{l} {\color{black}{4}} {\color{black}{t.}} {\color{black}{0}} {\color{black}{1.}} {\color{black}{5}} {\color{black}{t.}} {\color{black}{1.}} {\color$
ry 1, 1900, and Febru	$\left. \begin{array}{c} 1,020,33\\ et \\ 1,020,33\\ et \\ 1,002\\ et \\ 1,$	uary 1, 1900, and 1	et	<b>City Proper.</b> <i>A February 1, 1901, b</i>	rse street 269.00 reet 259.00 reet 163.20 70.00 s street \$ 353.55 12.00 6.20 6.30 0 12.00 12.00 12.00 12.00 12.00 10.000 10.000 10.000 10.000 10.00000000
vers built between Februa	Essex street and Granby street Basex street and Granby street Near Trenont street St. Mary's street and Audnbon road Huntington avenue, westerly Medifield street and Beacon street	drains built between Feb	Essex street and Granby str	seen Fedruary 1, 1900, an	Charlestown street and Traverse street Haverhill street and Cunal street Near Fulton street Commercial street and South Ferry Farvell avenue and Chanbers street Estes place and Gilbert place Traverse street and Marbor line West Dedhan and West Canton streets
Seu	Bay State road and passageways, Bay State road and passageways, Faxon street	Surface o	Bay State rond and passageways, Essex street and Granby street	Severs built betw	Haverhill street (Canal-street / relief sewer)

Severs built between February 1, 1900, and Februarg 1, 1901, by the City, either by Contract or Day Labor.

, T	LOCALITY.	I on oth in	Dimondance	
Built in	Between	Feet.	Materials.	Remarks.
Commercial street	Commercial street.       Battery street and Salutation street.         Commercial street.       At Clark street and Albany street.         Oak street.       Hudson street and Albany street.         Stillman street.       Endicot street and Albany street.         Stillman street.       Endicot street and Albany street.         Stillman street.       Endicot street and Albany street.         Boylston street.       Endicot street and Noth Margin street.         Utdea street.       Charlestown street and Noth Margin street.         Boylston street.       Charlestown street.         Utdea street.       South street and Utica street.         Utica street.       South street and Beach street.         Albany street.       Carver street and Beach street.         Albany street.       Carver street and Beach street.         East side intercepter)       At Oswego street.         East side intercepter)       At Oswego street.	97.21 16.00 101.00 101.00 101.00 1177.25 1177.25 1177.25 1177.25 17.00 17.00 254.10 254.10	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Day labor. Day labor.

Sewers built between February 1, 1900, and February 1, 1901, by the City, in streets laid out under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892, or Special Acts relating thereto.

$\left\{ {\operatorname{Day}}  ext{ labor.}  ight.$	
12-inch pipe	
$\left\{\begin{array}{cc} 296.35\\ 40.00\\ \ldots \\ $	
Stuart street and Stanhope street	
Trinity place	

Severs built between February 1, 1900, and February 1, 1901, by Private Parties.	72.00 <b>30</b> inch iron pipe65.0016-inch iron pipe55.0016-inch iron pipe55.0015-inch drain pipe55.0015-inch drain pipe56.0015-inch drain pipe57.0015-inch drain pipe58.0012-inch drain pipe59.0012-inch drain pipe50.0012-inch drain pipe50.0012-inch drain pipe16.004 ducers	Severs abandoned or rebuilt between February 1, 1900, and February 1, 1901.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Boston. 1, 1902, by the City, either by Contract or Day Labor.	48.04 <sup>2</sup> feet 9 inches, circular brick, 12.85 <sup>2</sup> 24 inch pipe
Severs built between February 1, 1900, a	Pleasant street (Siphon and)       At Porter street         change in sewer system)       At Porter street         lehigh street (change in section)       At railroad yard	Severs abandoned or rebuilt between F	Utter street.       Kneeland and Beach streets.         Albany street.       At Oswego street.         East Brookline street.       At Oswego street.         Plarent street.       At Porter street.         Plarent street.       At Plarant street.         Plarent street.       Haverhill street.         Plarent street.       Farwell and Chambers street.         Poplar street.       Farwell avenue and Anabers street.         Poplar street.       Farwell avenue and Albany street.         Poplar street.       Farwell avenue and Albany street.         Lehigh street.       At Railroad yard.         Lehigh street.       At Railroad yard.         Commercial street.       Battery street and Salutation street.	Severs built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	B street Fourth street and Silver street

STREET DEPARTMENT - SEWER DIVISION.

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Severs built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.

Ē	LOCALITY.	Length in	Dimensions and		Domonico
Built in	Between	Feet.	Materials.		кешаткв.
D street	West Second and Broadway		$3$ ft. $3$ in. $\times 3$ ft. $5\frac{1}{2}$ in., brick. $4$ feet $\times 4$ feet $3$ inches, brick, $2$ feet $\times 3$ feet, brick	Day labor.	>Day labor. Rebuilding.
Bast First street	Bast First street.       L street and P street.         West Seventh street.       B street and D street.         Silver street.       B street and D street.         Tudor street.       C street and D street.	( 108.84 576.17 375.00 1,614.79 547.75	24.Inch pipe	) Day labor. Day labor. Day labor. Day labor.	Rebuilding. Rebuilding. Rebuilding.

Sewers built between February 1, 1901, and February 1, 1902, by the City, in streets laid out under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892, or Special Act referring thereto.

		Rebuilding.	
Contract.	Day labor.	Day labor.	Day labor.
Its inch pipe, house		0	12-inch pipe, sever
219.89 766.27 645.10 169.00	232.65 321.55 738.66	154.00 525.07 20.70	279.08 13.00 99.50
Columbia road	Columbia road	Columbia road G street and H street	Dixfield street
Columbta road	Columbia road	Columbia road	Dixfield street

Day labor.	Contract or Day Labor.	Day labor. Day labor. Day labor. Day labor. Day labor.	Darties.		act or Day Labor.	Day labor. Day labor. Rebuilding. Day labor. Rebuilding.
12-inch pipe, sewer	002, by the City, either by	10-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain,	ary 1, 1902, by Private F	12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe.	y the City, either by Contro	2 feet × 3 feet, brick Day labor. Rebuilding. 24. inch pipe
216.55 25.00 179.25	uary 1, 15	$\begin{array}{c} 5.00\\ 261.00\\ 282.00\\ 59.00\\ 59.00 \end{array}$	and Febru	270.00 601.55 601.55 800.90 384.90 384.56 205.65 643.15	East Boston. bruary 1, 1902, b	62.00 399.13 51.02 361.00
Leeds street borchester ave. and Woodward street,	Surface Drains built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	C street and D street C street and E street L street and P street B street and D street C street and D street	Severs built between February 1, 1901, and February 1, 1902, by Private Parties.	Kemp street and Abbott street A street and Summer-street extension East Third street and third street East Third street and tide water Existing sewer and Eighth street N street, easterly Congress st. and N. Y., N. H. & H. R.R	<b>East Boston.</b> Severs built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	Gladstone street and Orient avenue Ruth street and 400 feet westerly Condor street and Chelsea creek
Leeds street	Surface Drains built b	Athens street Bowen street East First street Gold street Tudor street	Sewe	Albert street. Melcher street. Midway street. K street. Ninth street and L street. Swallow street.	Sewers built beta	Farrington and Walley streets Marginal street Putnam-street outlet

Sewers built between February	Severs built between February 1, 1901, and February 1, 1902, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	treets laid , or Specia	out under chapter 323 of th I Acts referring thereto.	te Acts of 1891, as Amended by
, To	LOCALITY.	L'en oth in	Dimensions and	
Built in	Between	Feet.	Materials.	Remarks.
Bennington street Sections 2, 3 and 4, north side	Boston & Maine Railroad and Byron st.,	2,608.75 994.16 242.35	12-inch pipe, house sewer 12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain,	Contract.
Bennington street, Section 5, { north side	Trumbull street and Byron street	$\left\{\begin{array}{c}1,894.46\\154.36\\154.36\end{array}\right\}$	12-inch pipe, house sewer 10-in. pipe, catch-basin drain, 8 catch hosins	Contract.
Bennington street	Near Revere line	159.25 $14.28$	2 feet 6 inches × 2 feet, wood culvert 6-inch pipe, house drain	Day labor. Day labor.
Sewers	Sewers Abandoned or Rebuilt between February 1, 1901, and February 1, 1902.	February	1, 1901, and February	y 1, 1902.
	East	East Boston.		
Bennington st., near Revere line, Marginal street Putnam-street outlet	Ruth street and 400 feet westerly	159.25 399.13 412.02	24 inches × 26 inches, wood 2 ft. 6 in. × 3 ft. wood	Rebuilt. Rebuilt. Rebuilt.
	Bt	Brighton.		
Linden street	Linden street Brighton ave	$\left\{ \begin{array}{c} 155.15\\ 80.00 \end{array} \right\}$	12-inch pipe	Rebuilt.

East Boston. - Concluded.

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Hemlock street	Itenlock street	West Roxbury.	1 foot 6 inches square, stone,	Rebuilt
Weld st., near La Grange st	Weld sti, near La Grange st	54.00	z teel square, stone	kebuilt. Rebuilt.
	Chari	Charlestown.		
Austh street	B. & M. R.R. and Front street Rutherford avenue and Main street Main street and Washington street	480.00 624.82 425.52	15-inch pipe 12-inch pipe	Abandoned. Rebuilt. Rebuilt.
	Thorit C	Charlactourn	-	
Severs built beti	Severs built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	y 1, 1902,	by the City, either by Contr	act or Day Labor.
A rlington avenue. Frothingham avenue. Green street. Prescott street.	Beacham street and Dorrance street Rutherford avenue and Main street Main street and High street Main street and Washington street	$\begin{array}{c} 324.48\\ 624.82\\ 269.20\\ 425.52 \end{array}$	12-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe	Day labor. Day labor. Rebuilding. Day labor. Rebuilding. Day labor. Rebuilding.
Severs built between Februar.	Severs built between February 1, 1901, and February 1, 1902, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1893, or Special Acts veferring thereto.	streets laid	out under chapter 323 of al Acts veferring thereto.	the Acts of 1891, as Amended
Alford attect	Alford street	$\begin{array}{c} 400.37\\ 394.57\\ 225.90\\ 160.00\\ 217.98\end{array}$	18-in. pipe, catch-basin drain, 16-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain, 12-inch pipe, house sewer	Day labor.
Mead street	Mead street Russell street and Bunker Hill street	330.47 35.00 266.00	10 catch basins	Day labor.

Wrest Dool

Surface	Surface Drains built between February 1, 1901, and February 1, 1902, by Private Parties.	(901, and Februa	ebruary 1, 1902, by Private	e Parties.
IC	Locality.	Length in	Dimensions and	Duranla
Builtin	Between	Feet.	Materials.	Kemarks.
Austin street	Austin street       B. & M. R.R. and Lynde street         West street       Beacham street and Alford street	$\{\begin{array}{c} 588.00\\ 200.00\\ 230.90\end{array}$	Is inch pipe	Built by B. & M. R.R. Built by Boston Elevated R.R.
-	L.	Briøhton.		
Severs built betu	Sewers built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	y 1, 1902, b	y the City, either by Contr	act or Day Labor.
Allston terrace	Hobart street and Brooksdale rond Commonwealth avenue and Brighton avenue Warren street and Corey road	$\begin{cases} 649.95\\ 155.15\\ 80.00\\ 1,572.86\\ 543.15 \end{cases}$	12-inch pipe	Day labor. } Day labor. Rebuilding. Day labor. Day labor.
Severs built between Februar,	Severs built between February 1, 1901, and February 1, 1902, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	Streets laid '92, or Spec	l out under chapter 323 of ial Acts referring thereto.	the Acts of 1891, as Amended
Brackett street	Washington street and Faneuil street	{ 30.00 48.00	10-in. pipe, catch-basin drain, 6-inch pipe, house drain 1 catch-basin	Day labor.
Brooks-street extension	North Beacon street and Holton street	415.90 242.30 526.20	12-inch pipe, surface drain 12-inch pipe, surface drain 10-inch pipe, surface drain 10-inch pipe, house sewer	Day labor.
Cambridge street	Cambridge street			Day labor.

Charlestown. -- Concluded.

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	1	1	1	ul.	h r
Contract or Day Labor.	) Day labor. Day labor.	Parties.		itract or Day Labor.	Contract. Contract. Contract. Day Jabor. Contract. Contract. Contract.
102, by the City, either by	6 feet 6 inches × 7 feet 6 inches, brick	uary 1, 1902, by Private ]	10-luch pipe. 10-luch pipe. 10-luch pipe. 10-luch pipe. 10-luch pipe. 10-luch pipe. 10-luch pipe. 10-luch pipe. 10-luch pipe. 12-luch pipe. 12-luch pipe.	by the City, either by Cor	15-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe
tary 1, 15	392.39 741.00	and Febru	35,00 144,00 174,00 174,00 173,43 143,43 143,43 143,43 143,43 143,43 144,00 11,888,21 49,85 235,25 880,95	West Roxbury. ehruary 1, 1902,	$\begin{array}{c} 516.59\\ 462.00\\ 482.00\\ 95.69\\ 835.63\\ 835.04\\ 460.31\\ 589.70\end{array}$
Surface Drains built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	Oakland street and Fairbanks street Parsons street and Faneuil street	Scorers built between February 1, 1901, and February 1, 1902, by Private Parties.	Melton road and Commouwealth avenue, Cambridge street and Sparhawk street. Clubines avenue and Brookline line Holmes avenue and Brookline line Holmes avenue and Brookline line Holmes avenue and Mrokline line Wallingford road and Colonial road Western avenue and Mackin street Western avenue and Mackin street avenue Existing sever and Chestant IIIII ave	West Roxbury. Severs built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	Albano street and Bellevue avenue Fletcher street and Montelair avenue Railroad street and Centre street Railusiaw tereat and Montello street Rexhame street and Montello street Washington street and Birch street
Surface Drains built b	Faneuli Valley Brook Conduit in private land Faneuli Valley Brook Conduit in private land	Scw	Colonial road Fike street Fike street Feneno ferrace Forten street Marshall street Marshall street Marshall street Marshall street Road No.3. Wallingford road	Severs built betwe	A mleerst street

Robinwood avenue	Robinwood avenue	244-85 534-85 339-68 339-68 485-22 665-76 410-00 410-00 1100.54 1233-83 853-83 960-00 140-00 140-00	10.in. pipe, catch-basin drain, 24.in. pipe, catch-basin drain, 6-inch pipe, loues drain, 8-inch pipe, loues drain, 12.inch pipe, loues exer	Contract. Contract. Day labor. Contract.
		970.00 420.00 610.00	6-inch pipe, house drain 8 catch basin acceler basin drain, 12-in, pipe, catch basin drain, 15-in, pipe, catch basin drain,	Contract.

West Roxbury. -- Continued.

Private land Co Surface Drains built between Fe				
Surface Drains built between Fe	Cornwall street and Brookside avenue.	710.00	2 feet $\times$ 3 feet 6 in ches, brick,	West Roxbury low level sewer.
	Surface Drains built between February 1, 1901, and February 1, 1902, by the City, under the direction of the Stony Brook Improvement Office.	1902, by the Office.	City, under the direction of	f the Stony Brook Improvement
Cornwall street	Brookside avenue and Boylston street Cornwall street and Brookside avenue	70.00 710.00	30-inch pipe, concrete. 15 ft. 6 in. × 17 ft., brick.	
Surface Drains built be	Surface Drains built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	uary 1, 15	02, by the City, either by C	contract or Day Labor.
Centre street	Arborway and May street. $422.00$ $15.$ inch pipe $12.$ inch	422,00 169,45 348,08 348,05 255,65 95,00 137,63 1,304,14 399,10 234,10 234,10 234,10 234,10 234,10 234,10 234,10 151,67 151,67	15-inch pipe       15-inch pipe         12-inch pipe       12-inch pipe         24-inch pipe       12-inch pipe         12-inch pipe       12-inch pipe         10-inch pipe       12-inch pipe         12-inch pipe       13-inch pipe         13-inch pipe       14 feet × 1 foot 6 inches, wood, 30-inch pipe         30-inch pipe       30-inch pipe         54-inch pipe       54-inch pipe         57-inch pipe       54-inch pipe         58-inch pipe       54-inch pipe         59-inch pipe       50-inch pipe         50-inch pipe       54-inch pipe         50-inch pipe       54-inch pipe         50-inch pipe       54-inch pipe	Day labor. Contract. Day labor. Contract. Day labor. Contract. Day labor. Day labor. Day labor. Day labor. Day labor. Day labor.
		39.85 54.00	30-inch pipe	Day labor. Rebuilding. Day labor. Rebuilding.

Concluded.	
1	
Roxbury	
Vest	

Severs built between February 1, 1901, and February 1, 1902, by Private Parties.

P	LOCALITY.	Lenoth in	,	
Built in	Between	Feet.	Materials.	Remarks.
Corey street	Existing sewer and Ruskin street Walk Hill street and 250 feet westerly	200.65 228.35	12-iuch pipe. 12-inch pipe.	

# Dorchester.

Sewers built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.

Bird street	Columbia road and Virginia street Dorchester avenue, easterly, near Free-	338.70 163.00	<ul> <li>338.70 12-inch pipe</li></ul>	Contract. Rock. Day labor Reh	Rock. Rehnilding	
Freeport street	Kimball street and Linden street.	( 188.00 66.00	15-inch pipe	Day labor.	Day labor. Rebuilding.	
Savin Hill avenue	K.K. Wesloy avenue, westerly Geneva avenue, easterly Existing sewer and Savin Hill avenue	<pre>226.20 202.20 515.08 342.93</pre>	12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe.	Contract. Contract. Contract.	Rock. All rock. Some rock	

Severs built between February 1, 1901, and February 1, 1902, by the City, in streets laid out under Chapter 323 of the Acts of 1891 as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.

Day labor.
15-inch pipe
505.33 436.27 195.00 271.80 190.70 190.70 371.50
At railroad crossing near Hamilton st {
Columbia road

3	as increased of surface 410 of nic ircs of 1000, or affectue ircs 19611 mil nichero.	in 'woor in	Arecene 21000 12 121 111 111	1660.
Fayston street	Blue Hill avenue and Mascoma street	361.10	10-in. pipe, catch-bash drain, 2 catch-basins	Day labor.
Ilancock street	Itancock street Columbia road and Winter street	64.80 (4.80 184.00 449.00 574.64 1,115.00	a teete timenes, circular prick surface drain. f etc 6 inches, circular brick surface drain. 15-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain, 16-inch pipe, buese drain f catch basins	∕ Day labor.
Illinckley street	Pleasant street and Bakersfield street	130.00	1 School and a state manihole 1 Overflow manihole 1 overflow manihole 1 anny house drain 10-inch catch bash drain	Contract.
Leonard street	Duncan street and Adams street	$\begin{array}{c} 485.85\\ 24.00\\ 300.00\end{array}$	L catch-basin 12-inch pipe. 10-in. pipe, catch-basin drain, 6-inch pipe, house drain 3-catch, basins.	Contract.
Millet street	Park street and Athelwold street	$\begin{array}{c} 450.22\\ 214.10\\ 40.00\\ 286.00\end{array}$	12-inch pipe 12-inch pipe, catch-basin drain, 10-in-pipe, catch basin drain, 6 catch basins, 4 catch basins,	Contract.
Mosley street	Crescent avenue and Columbia road	626.10 29.00 340.00	12. Inch pipe 10. in. pipe, catch.Dasin drain, 6. Inch pipe, house drain 3. catch-basins.	Contract.
Morrill st	Pleasant street and Bakersfield street	106.00 15.00 30.00	6-incb pipe, house drain 10-in, pipe, catch-basin drain, 2 catch-basins	Contract.
Normandy street	Normundy street Lawrence avenue and Grove street	20.00	6-inch pipe, house drain	Day labor.

Severs built between February 1, 1901, and February 1, 1902, by the City, in Streets laid out under chapter 323 of the Acts of 1891,

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Sewers built between February 1, 1901, and February 1, 1902, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, of Special Acts referring thereto.

	LOCALITY.	Length in	Dimensions and		
Built in	Between	Feet.	Materials.	Remarks.	rks.
Spencer street	Athelwold street and Harvard street	{ 7.00 83.00	10-in. pipe, catch-basin drain, 6-inch pipe, house drain	Day labor.	
Thane street	Athelwold street and Harvard street			Contract.	lldino
Windermere road	Stoughton street and Cushing avenue	$\left\{\begin{array}{c} 152.00\\ 25.00\\ 21.00\end{array}\right.$	I catch basin location pipe, house drain 10-in pipe, catch basin drain, 12-inch pipe	Contract.	.0

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	Labor.	Day labor. Day labor. Day labor. Contract. Some rock. Contract. Some rock. Contract. Day labor. Day labor. Considerable rock. Contract. Considerable rock. Contract. Considerable rock.
	act or Day	Day labor. Day labor. Day labor. Contract. Contract. Day labor. Day labor. Contract. Contract.
410.00 12-inch pipe. 138.65 12-inch pipe. 170.55 12-inch pipe.	r. y the City, either by Contr	12-inch pipe, sewer       Day labor.         13-inch pipe, sewer       Contract. Some rock.         13-inch pipe, sewer       Contract.         13-inch pipe, sewer       Day labor.         12-inch pipe, sewer       Contract. Considerable rock.         12-inch pipe, sewer       Contract. Considerable rock.         12-inch pipe, sewer       Contract. Considerable rock.
410.00 138.65 170.55	South Dorchester. February 1, 1902, by	$\begin{array}{c} 173.00\\ 221.53\\ 558.06\\ 558.00\\ 558.00\\ 1,060\\ 1,060\\ 652.00\\ 652.00\\ 652.00\\ 652.00\\ \end{array}$
Castlegate street	South Dorchester. Severs hult between Fehruary 1, 1901, and February 1, 1903, by the City, either by Contract or Day Labor.	Adams street.       Milton street and O. C. R. R. bridge.         Maxwell street.       Willowwood street and Milton avenue.         Maxwell street.       Capen street and Milton avenue.         Milton street.       Capen street.         Milton street.       Capen street.         Miltstreet.       Capen, Preston and Harrison streets.         Nill street.       Capen, Preston and Harrison streets.         Selden street.       Nelson street.         Nill street.       Nelson street.         Arondale place.       Nith outlet In private land.
Castlegate street	Severs built bet	Adams street

Severs built between February 1, 1901, and February 1, 1902, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.

Blue Hill avenue	Walk Hill street and River street		1,285.00 15-inch pipe, sewer	Contract. Conside	rable rock.
Blue Hill avenue	Walk Hill street and River street		1,037.44   15-Inch pipe, sewer	Day labor. Some 1	ock.
Blue Hill avenue	Walk Hill street and River street		12-inch pipe, sewer	Contract. Conside	rable rock.
Capen street	Evans street and Fairmount street		12-inch pipe, sewer	Contract.	
Gil)son street	Dorchester avenue and Adams street	_	6-inch pipe, house drain	Day labor.	

# STREET DEPARTMENT - SEWER DIVISION.

12-Inch pipe, sewer.....

Severs built between Februar as	Sewers built between February 1, 1901, and February 1, 1902, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	the City, a of 1892, o	in Streets laid out under ch r Special Acts referring the	apter 323 of the Acts of 1891, seeto.
Tr	LOCALITY.	Length in	Dimensions and	Domonika
Built in	Between	Feet.	Materials.	Ncinal kB.
Templeton street	Dorchester avenue and Adams street	{ 41.30 (558.00	12-inch pipe, sewer.	Contract.
Wainwright street	Centre street and Welles avenue	$\left(\begin{array}{c} 6.00\\ 284.50\\ 406.00\end{array}\right)$	12-inch pipe, sewer 12-inch pipe, sewer	Day labor.
West Selden street	Morton street and Manchester street	829.40 1,638.00	12-inch pipe, sewer	Contract. Considerable rock.
West Tremlett street	Outlet in Whitfield street and Wheat- land avenue	660.00 150.00	12-inch pipe, sewer	Contract.
Torrey street	wentworth street and washington street Beale street and Peabody square	96.00 8.00 8.00	6-inc pipe, house drain relaid, 6-inc pipe, house drain	Contract.
Surface drains buil	Surface drains built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	bruary 1, 1	902, by the City, either by C	Contract or Day Labor.
Adams street.	Near Pierce square.	$\left\{\begin{array}{c} 245.00\\ 27.00\end{array}\right.$	12-111. pipe, catch-basin drain, 10-111. pipe, catch-basin drain,	Day labor. Some rock.
Bismarck street	Near Oakland street	(	2 catch basine 5 ft. $\times 4$ ft., stone conduit 18-in. pipe, catch basin drain,	Contract.
Bushnell street	Beale street and Peabody square	263.20 317.53 132.65	15-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain,	Contract.
Davenport-brook conduit	Davenport-brook conduit Bailey street and Burt street	25.72	2 catcb-basins	Day labor.
Dix street	Adams street and Dorchester avenue	505.20 83.85	12-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain, 5 catch-basins	Contract.

South Dorchester. - Continued.

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Contract. Day labor. Some rock. Day labor. Day labor. Contract. Considerable rock. Contract. Considerable rock. Day labor. Day labor. Some rock. Contract. Some rock.	nder chapter 323 of the Acts of thereto.	Contract. Considerable rock.	Day labor.	Contract.	Day labor.	$\left\{ {{\operatorname{Day}}\ {\operatorname{labor}},}  ight.$	Contract.
<ul> <li>5 catch Justins,</li></ul>	e City, in Streets laid out u , or Special Acts referring	12.in. pipe, catch-basin drain, 10.in. pipe, catch-basin drain, 21 catch-basins	15.in. pipe, catch-basin drain, 12.in. pipe, catch-basin drain, 12.in. pipe, catch-basin drain, 10.in. pipe, catch-basin drain, 7 catch-basins	4 catch-basins rebuilt 12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain,	10-in. pipe, catch-basin drain, 5 catch-basins	18-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain,	6 feet 6 inches, circular brick conduit
53.83 53.00 53.83 54.93 74.72 700 77.742 700 700 700 700 700 700 700 70	1902, by the	$\left\{\begin{array}{c} 488.00\\ 206.00\\ 157.00\end{array}\right.$	308.00 37.00 112.00	20.00 32.00	25.00	$\left\{ \begin{array}{c} 516.00\\ 102.00 \end{array} \right\}$	871.02
River street	Surface Drains built between February 1, 1901, and February 1, 1902, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	Walk Hill street and River street	Walk IIIII street and River street	Evans street and Fairmount street	Carruth street and Beaumont street	Adams street and Dorchester avenue	Walk flill street and River street
Riyer street.         Wentworth street branch.         Canterbury branch.         Canterbury branch.         Rosemont road, southerst.         Adams street.         Maxwell street.         In Lyons street.         Conderbury branch, Stony brook         In Lyons street.         Oakland Garden fork, Canter-         Darkebury branch, Stony brook.         Street.         Oakland Garden fork, Canter-         Dury branch, Stony brook.	Surface Drains built between 1891,	Blue Hill avenue	Blue Hill avenue	Capen street	Fairfax street	Gibson street	Blue Hill avenue, Mattapan- }

STREET DEPARTMENT - SEWER DIVISION.

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Surface Drains built between February 1, 1901, and February 1, 1902, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.

Ramarke	10011101 PD.	Сіту	z Do	CUMEN	Contract. Considerable rock.	).		
		Day labor.	Contract.		Contract.	Day labor.	Contract.	Day labor.
Dimensions and	Materials.	8 feet 8 inches × 5 feet 3 inches, brick conduit 8 ft. 8 in. × 5 ft. 3 in. to 6 ft. 6 in., brick refuter	18-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 10-in, pipe, catch-basin drain, 10 catch-basin	15-10. pipe, catch-basin drain 12-in. pipe, catch-basin drain. 12-in. pipe, catch-basin drain. 10-in. pipe, catch-basin drain. 11 catch-basins.	4 reet 3 notes, curcutar proceed on the conduct conduct of the catch-basin drain, 24-in, pipe, catch-basin drain, 15-in, pipe, catch-basin drain, 12-in, pipe, catch-basin drain, 12-in, pipe, catch-basin drain, 24-in, pipe, catch-basin drain, 25-in, pipe, catch-basin drain, 25-in, 2	2.1 cavour-Dashing	15-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain,	e datori lassiur. 5 feet, circular brick conduit, 5 feet, of teet, brick reducer 5 feet to treular brick conduit, 24.11. pipe, catch-basin drain, 20.11. pipe, catch-basin drain, 10.11. pipe, catch-basin drain, 6 catch-basin drain,
Length in	Feet.	33.00	( 498.50 457.70 170.54	565.00 968.00 150.00	1,000.00 37.75 91.42 91.42 1,792.50 1,792.50 267.82	4.00 210.00	275.10 490.00	12.00 6.00 301.16 304.20 35.00 130.00
LOCALITY.	Between	Walk Hill street and River street	Dorchester avenue and Adams street	Wentworth st. and Washington st	Morion street and Manchester street	Morton street and Manchestor street	With outlet in Whitfield street and Wheatland avenue	Centre street and Welles avenue
In	Built in	Blue Hill avenue, Mattapan-}	Templeton street	Torrey street	West Selden street	West Selden street	West Tremlett street	Wainwright street

Culverts built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.		Severs built between February 1, 1901, and February 1, 1902, by Private Parties.	King street and Spaulding street.442.9012.inch pipe, sewer.Talbot avenue and Bernard street.236.8512.inch pipe, sewer.Talbot avenue and Centre street.236.7812.inch pipe, sewer.Dix street and Centre street.236.7812.inch pipe, sewer.Dix street and Centre street.236.7712.inch pipe, sewer.Tain street and Gustine street.230.0012.inch pipe, sewer.Train street and Gustine street.230.0012.inch pipe, sewer.Train street and Gustine street.202.3712.inch pipe, sewer.	Roxbury. Severs built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	ampton "and         Massachnsetts arenue and tide-water         866.00       24.inch pipe               Contract.       Contract.         e streets       Rookford street and Charene street       806.00       24.inch pipe       Contract.       Contract.       Contract.         Exhisting sever and Highland Park st       E30.07       12.inch pipe       Contract.       All rock.         Waumbeck street and Magrifts street       25.00       12.inch pipe       Day labor.       Day labor.         Waumbeck street and Julian street       25.00       12.inch pipe       Day labor.       Day labor.         Waumbeck street and Julian street       25.00       12.inch pipe       Day labor.       Day labor.         Waunu attreet and Julian street       25.00       12.inch pipe       Day labor.       Day labor.         Waunu attreet and Humbold avenue       25.00       12.inch pipe       Day labor.       Day labor.         Waunu attreet and Humbold avenue       25.00       12.inch pipe       Day labor.       Day labor.         Waunu attreet and Ruthren street       25.00       12.inch pipe       Day labor.       Day labor.         South attreet and Ruthren street       25.00       12.inch pipe       Day labor.       Day labor.         Outhous street an
Culverts built bet	Neponset avenue	Se	Gustine street. Helen street Lateid street Leslie street. Penhallow street. Rosemont street. Spaulding street	Scwers built het	Burnham, Southampton 'and Akinson streets

uilt between Febra Built in eet Surface Drains l reet	Koxbury. — Concluded. Sewers built between February 1, 1901, and February 1, 1902, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1899, or Special Acts referring thereto.	LOCALITY. Teneth in Dimensions and	Between Feet. Materials. Remarks.	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Surface Drains built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	291.22 115.00 859.00 1 699.00 1 1 1 200 2 1 1 1 1 1 1 1 1 1 1 1 1 1	• •	Cobden street and Ruthven street 832.57 4 feet 3 inches, circular brick, Contract.	Sewers built between February 1, 1901, and February 1, 1902, by Private Parties.	Off Warren street, easterly
	uilt between February 1, 1901, and February 1 as Amended by chapter 418 of	LOGALITY.		Carlow street Chadwick street and Albany street	Surface Drains built between February 1, 1901	Humboldt avenue		Walnut avenue Cobdcn street and Ruthven street	Sewers built between Februar	Chisholm park

Roxbury. - Concluded.

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	12-inch pipe		36 Inches × 42 Inches, brick. 15 Inch pipe. 12 inch pipe. 12 inch pipe. 13 inch pipe. 15 freck, circular brick. 15 inch pipe. 15 inch pipe. 15 inch pipe. 24 Inch brick.		2 ft. × 2 ft. 4 in., circular brick, 12.inch pipe	2 teet & o teet, prod 3 feet X 4 feet, wood 18 inches X 18 inches, brick 16 inches X 24 inches, brick 16 inches X 24 inches, brick 12-inch pipe.
Roxbury.	650.95 25.00 231.40 29.40	Dorchester.	436.00 150.00 84.00 163.00 163.00 188.00 188.00 188.00 188.00 22.00 22.00	South Boston.	255.00 257.00 25	230.000 145.00 567.00 547.75 547.75
Ro	Bockford street and Clarence street Ruthren street and Homestead street Walnut avenue and Humboldt avenue	Dor	At crossing, N.Y., N. H. & H. R.R., at hamilton street Dorchester avenue, easterly, near Free- port street Kinhall street and Linden street Geneva avenue and Marlewe street Greenwood street and Harlem street	South	Fourth street and Silver street	West Seventh street
	Clifton and George streets Humboldt avenue Ruthven street		Columbia road		B street	West Seventh street

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Sewers built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.

	LocALITY.       Bulit in       ansdowne street       ansteret       arker Hill arenue.       tayten street       mith street (Smith street diatage)       trict surface drainage)       tay Head and Bound Hill streets, Minden       tayteret       any street.       any Head and Bound Hill streets, Minden	LOCALITY.       Built in     LocaLITY.       Backween     Between       Farker Hill areet.     Between       Parker Hill areet.     Ipswich street, westerly.       Farker Hill arente.     Lawn street and Fisher arenue.       Smith street (Smith-street dis.     Stalumet street, westerly.       Santh street (Smith-street dis.     Stalumet street, westerly.       Gay Head and Round Hill streets,     Minden street and Walden street.       Norway street.     Turner st. and Masachusetts are.	Length in feet. 182.14 182.14 183.50 183.50 183.56 183.56 183.56 244.59 244.59 244.59	th in Dimensions and Materials. 3.00 30 in. × 36 in., brick sever Day labor. 3.14 12 inch pipe, sever Day labor. 3.2.14 12 inch pipe, sever Rebuilt. I 3.50 12 inch pipe, sever Rebuilt. I 3.50 13 inch pipe, sever Routhard. 4.74 38 18 inch pipe, sever Routh. I 3.60 13 18 inch pipe, sever Rebuilt. I 4.63 18 inch pipe, sever Pay labor. 4.64 18 inch pipe, sever Pay labor. 5.66 18 inch pipe, sever Pay labor. 5.66 18 inch pipe, sever Pay labor.	Dimensions and Materials.Remarks.B0 in. × 36 in., brick sever 12.inch pipe, severDay labor. Day labor.12.inch pipe, severContract. Contract.12.inch pipe, severRebuilt. Day labor. Contract.13.inch pipe, severRebuilt. Day labor. Contract.14.inch pipe, severRebuilt. Day labor.15.inch pipe, severRebuilt. Day labor.
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Severs built by Contract between February 1, 1901, and February 1, 1902.

	12-inch pipe, sewer. 10-inch pipe, sewer. 15-inch pipe, sewer. 12-inch pipe, sewer. 12-inch pipe, sewer.	a sewer. 3 sewer. 2 feet 9 inches, circular brick, catch bash drain. 2 4 in. pipe, catch-bash drain. 13 in. pipe, catch-bash drain. 12 in. pipe, catch-bash drain. 12 in. pipe, catch-bash drain. 44 inch iron pipe, catch-bash drain.	drain. 10.inch plpe, house drain. 16.inch iron pipe, catch-basin drain.
, ,	500.02 90.20 906.00 282.04	570.56 758.19 236.00 1,064.47 12.50 12.50	23.00 75.42
2	Calumet street, westerly	Longwood entrance and Riverway	
	Parker Hill avenue South Huntington avenue	Brookline avenue	

		_			
Lansdowne street		98.30 906.00 906.77 282.04 1,690.25	30 in. × 36 in., brick sewer [5.1nch pipe, sewer 12.1nch pipe, sewer 12.1nch pipe, sewer 12.1nch pipe, house drain	Day labor.	
Brookline avenue	Longwood entrance and Riverway	23.00 570.56 758.19 238.00 238.00 233.25 252.66 253.26 253.26 12.50	10. from the four of the first	Contract.	
		75.42 74.42	Is inch iron pipe, catch-basin drain		
Gainsborough street	St. Stephen street and Hemen way street,	635.15 635.15 714.00 82.00	20 in. X 36 in., brick sewer 12-inch pipe, sewer 6-inch pipe, acuel-basin drain, fourth pipe, eatch-basin drain, fourth bisting	Contract.	
South Huntington avenue	Heath street and Bynner street	90.20 1,550.00 142.00	10.Incl pipe, sewer	~	.Contract. Part rock.

Including 10-inch pipe, sewer and upwards, and 12-inch pipe, surface drain and upward.

30 in. × 36 in., brick sewer. 12-inch pipe, sewer.

635.15 96.00

Galusborough street...... St. Stephen st. and Hemenway st......

Ir	LOCALITY.	Lonoth in	Dimondone and	
Built in	Between	Feet.	Materials.	Remarks.
Darling street	Calumet street and Hillside street Marlborough street and Massachusetts avenue	83.00 89.00 89.00	6-inch pipe, house drain 2 catch-basins	Contract. Not finlabed. Day labor.
Surface Drains built	Surface Drains built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	bruary 1, 19	02, by the City, either by C	Contract or Day Labor.
Beacon street	Beacon street	$\left\{\begin{array}{c} 345.07\\ 10.52\\ 1.492.01\\ 1.492.01\\ \end{array}\right.$	12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain, 2 catch-basins	Day labor.
Smith street (Smith-street dls.) trict surface drainage)	Parker street and Whitney street		24-in. pipe, catch basin drain 24-in. pipe, catch basin drain 3 feet 3 in. × 4 feet 5 in.,	Day labor.
Whitney street (Smith-street) district surface drainage) ( Tremont street (Smith-street) district surface drainage))	Smith street and Tremont street Whitney street and St. Alphonsns street,	530.00	10-110-0 10-110-0 24-in. pipe, catch-basin drain, 24-in. pipe (excavation only),	j Day labor. Day labor.
Sew	Sewers lutil between February 1, 1901, and February 1, 1902, by Private Parties.	, and Febru	ary 1, 1902, by Private Pc	arties.
Medfield street	Medfield street	23.00 25.00 50.76	12-inch pipe, sewer. 10-inch pipe, sewer. 6-inch pipe, house drain. 12-inch pipe, sewer. 6-inch pipe, bouse drain.	

Roxbury. -- Concluded.

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	1902.	Rebuilt. Rebuilt. Rebuilt. Roxbury. Rebuilt. Roxbury. Rebuilt. Roxbury. Rebuilt. Abandoned. Roxbury. Rebuilt. Rebuilt. Rebuilt. Rebuilt.
10-in. pipe, cateli-basin drain. 2 actel-basins. 12-in. pipe, cateli-basin drain. 10-in. pipe, cateli-basin drain. 1 cateli-basin. 1 drop intet.	bury. •y 1, 1901, and February 1, .	12:inch pipe, sewer.         13:in.x. 12:in., brick, wood         11:in.x. 12:in., brick, wood         12:inch pipe, sewer.         15:inch pipe, sewer.         12:inch pipe, sewer.         13:inch pipe, sewer.         14:inch cement pipe, sewer.         15:inch pipe, sewer.         15:inch pipe, sewer.         15:inch pipe, sewer.         16:inch pipe, sewer.         17:inch pipe, sewer.         18:in X inch wood sewer.         18:in X inch wood sewer.         18:in X inch wood sewer.         19:inches × 8 inches, wood sewer.         19:inches × 8 inches, intek         10:inches × 8 inches, wood sewer.         11:inches × 9 inches, intek         12:inches × 11:inch sewer         13:in x 22:in wood sewer         14:inches × 11:inches × 11:inches         15:inches × 11:inches × 11:inches         16:inches × 11:inches         17:inches × 1
18.00 201.60 44.05	and Roxl en Februar	66, 00 161.36 85.42 85.42 161.36 153.00 157.
Medifield street St. Mary's street and Audubon road { Lansdowne street	<b>City Proper and Roxbury.</b> List of Severs Abandoned or Rebuilt between February 1, 1901, and February 1, 1902.	Staniford street and Norman street Arch street and Washington street Cazenove street and Walden street Stazenove street and Walden street Ninden street and Walden street Turner street and Massachusetts avenue, Derue street and Alaary street Charles street and Alburn street Longwood entrance and Riverway Endicott st. and South Margin st Charles treet and Myrtle street Bridion street and Myrtle street Phillips street and Myrtle street
Medifeld street	List o	Green street

Surface Drains built between February 1, 1901, and February 1, 1902, by Private Parties.

STREET DEPARTMENT - SEWER DIVISION. 193

•		Remarks.	III:	ut.	lit.	ltt.	Rebuilt. Rebuilt. Roxbury. Abandoned and rebuilt. Roxbury.			
ry 1, 1901, and February 1, 1902	Dimensions and	Materials.	<pre>f feet × 6 feet, wood sewer 4 feet × 4 feet, wood sewer 3 feet × 4 feet, wood sewer 3 feet × 3 feet, wood sewer F feet × 2 feet, wood sewer</pre>	3 teet X 4 teet, wood sower) 18 in. X 18 in., brick, wood and slate, sewer	z 10. 3 10. × 2 10. 1 10., Drick   Sewer	18 in. $\times$ 18 in., brick sewer. 2 ft. 2 in. $\times$ 3 ft. 6 in., wood Rebuilt.	2 feet X 2 feet, wood sewer		1901, and February 1, 1902.	lé-inch fron pipe. 15-inch pipe, sewer. 12-in. pipe, catch-basin drain.
veen Februa	Lenoth in	feet.	65.00 84.00 155.00 31.00	110.00 146.00	26.00	170.00	895.00 6.50 75.00	City Proper.	ebruary 1,	$\begin{array}{c} 6.00 \\ 161.36 \\ 141.38 \end{array}$
List of Severs Abandoned or Rebuilt between February 1, 1901, and February 1, 1903.	Locality.	Between	Central street and India street	Richmond st. and North st Fulton street and Sun-court street	Edinboro street Beach street and Essex street	Canal street and Portland street	Traverse street and Causeway street Parker street and Whitney street	City	Sewers built by Contract, between February 1, 1901, and February 1, 1902.	Public alley No. 502. Arch street and Washington street. Milk street
List o	Loci	Built in	Central street and India street	Richmond st. and North st	Edinboro street	Traverse street	Portland street			Public alley No. 502

City Proper and Roxbury. — Concluded.

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#### CITY DOCUMENT NO. 40.

Including 10-inch pipe, sewer and upwards, and 12-inch pipe, surface drains and upwards.

Sewers built between February 1, 1901, and February 1, 1902, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.

	Day labor.	Contract.	Day labor.	Day labor.	Day labor.	Day labor.	Day labor.	) Day labor.	Day labor. Day labor. Day labor.	{ Day labor.
•	12-inch pipe, sewer	12-In. pipe, catch-basin drain, 10-in. pipe, catch-basin drain, 6-inch pipe, house drain	8 catch-basins 8-inch pipe, house drain 12-inch nine sever	10-in, pipe, catch.Jasin drain, 6-inch pipe, house drain. 2 catch.basins	2 drop mices	z drop intets 10-in. pipe, catch-basin drain, 10-in. bissin	10-in. pipe, catch-basin drain, 6-inch pipe, house drain 1 catch-basin	1 drop Intel. 12-inch pipe, sewer. 10-in, pipe, catch-basin drain, 6-inch pipe, house drain 2 catch-basins.	2 crop luttes. 6-inch pipe, honse drain	2 catch-bashas
	47.50 11.76 91.71	141.35 148.26 35.00	305.00	105.50	9.00 23.00 37.00	12.00	52.00	$\left\{\begin{array}{c}12.00\\39.50\\24.50\\\end{array}\right.$	6.00	}
	Atlantic avenue and India street	Atlantic avenue and India street	Boylston street and Columbus avenue	Public alley No. 441 Exeter street and Fairfield street	Fairfield street and Gloucester street	Public alley No. 706 Common passageway and Newland st	Gloucester street and Hereford street	Public alley No. 444	Dartmouth street and Excter street Arlington street and Berkeley street Berkeley street and Clarendon street	Orarendon sureet and Dartmount Street.
	Storer street	Milk street	Berkeiey street	Public alley No. 441	Public alley No. 442	Public alley No. 706	Public alley No. 443	Public alley No. 444	Public alley No. 418 Public alley No. 422 Public alley No. 423	:

STREET DEPARTMENT - SEWER DIVISION.

	Remarks.				in, Day labor.		ii., , Duy labor.	in, Day labor.	Day labor.		n, Day labor.	n, Contract.	n, Contract.	
Dimensions and	Materials.	12-inch pipe, sewer	I0-inch pipe 6-inch pipe 9 catch basina	6-inch pipe, house drain 10-in. pipe, catch-basin drain, 2 cotch-basin	12-Inch pipe. 10-in. pipe, catch-bash drain, 6-inch pipe, house drain	5 cattor Dashing	2 catch-basins	2 catch-basins	2 catch-basins	2 catch-basins	10-in. phpe, catch-basin drain, 2 catch-basins	16-inch iron pipe 10-in. pipe, catch-basin drain,	1 catch-basin	10-in. plpe, catch-basin drai
Length In	Feet.	$\left\{\begin{array}{c} 130.48\\ 10.00\\ 9.00\end{array}\right.$	$\left\{ \begin{array}{c} 11.00\\ 9.00 \end{array} \right\}$	6.00 6.00	6.00 9.00 8.00	$\left\{ \begin{array}{c} 6.00\\ 21.00 \end{array} \right.$	14.00	6.00	{ 12.00		6.00	6.00	6.00	4.00
LOCALITY.	Between	Exeter street and Fairfield street	Fairfield street and Gloncester street	Gloucester street and Hereford street	Hereford street and Massachusetts ave.,	Public alley No. 430 Hereford street and Massachusetts ave.,	Exeter street and Pairfield street	Dartmouth street and Exeter street	Clarendon street and Dartmouth street	Berkeley street and Clarendon street	Arlington street and Berkeley street	Public alley 503 and Public alley 501	Rutland square and Concord square	Public alley No. 440 Dartmouth street and Exeter street
ľ	Built in	Public alley No. 426	Public alley No. 427	Public alley No. 428	Public alley No. 429	Public alley No. 430.	Public alley No. 433	Public alley No. 434	Public alley No. 435	Public alley No. 436	Public alley No. 438	Public alley No. 502	Public alley No. 503	Public alley No. 440

City Proper. - Concluded.

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Day labor. Day labor. Day labor. Day labor.	or Day Labor.	Day labor. Day labor. Day labor. Day labor. Day labor. Day labor. Day labor.	.Day labor. Day labor. Day labor. Contract.	Day labor. Day labor. Rebuilding. tract or Day Labor.	r labor.	8.	Bullt by State. By Transit Commission.
10-in. ptpe, catch-basin drain, 3 catch-basinsDay labor.10-in. ptpc, catch basin drain, 10-in. ptpc, catch basin drain, 10-in. ptpc, catch-basin drain, 10-in. ptpc, catch-basin drain, 10-in. ptpc, catch-basin drain, 2 drop lnletsDay labor.	y the City, either by Contract		_^	<ul> <li><sup>12</sup>-inch pipe, sever</li> <li><sup>13</sup>-inch pipe, sever</li> <li><sup>13</sup>-by the City, either by Contr.</li> </ul>	12-in. pipe, catch-basin drain, Day labor.	try 1, 1902, by Private Partie	12-inch pipe, sewer
3.00	ry 1, 1902, t	656.45 839.33 839.33 8604.32 8604.32 856.00 170.00 170.00 170.00 170.00 170.00 172.37 122.37		s5.42 ruary 1, 190	146.00	, and Februc	355.00 34.00 {
If ereford street and Massachusetts ave., Hereford street and Gloucester street Gloucester street and Fairfield street Exeter street and Fairfield street	Scwers built between February 1, 1901, and February 1, 1902, by the City, either by Contract or Day Labor.	Charlestown street and Causeway street, Puillips street and Myrtle street Berkeloy street and Charedon street Traverse and Causeway streets Beach street and Besex street Canal street and Porthand street Fulton street and Sun-court street	Hudson street and Albany street. Endicott street and North Margin street, Staniford street and Norman street. Areb street and Washington street.	Drains built between February 1, 1901, and February 1, 1903, by the City, either by Contract or Day Labor.	Marlborough street and Public alley 422,	Severs built between February 1, 1901, and February 1, 1902, by Private Parties.	Derne street and Beacon street
Public alley No. 414           Public alley No. 415           Public alley No. 416           Public alley No. 417	Severs built betu	Beverly street. Irving street. Providence street. Portland street. Edinboro street. Traverse street. Richmond and North streets.	India and Central streets Oak street Stillman street	Chandler street	Arlington street	Sev	Bowdoin street

District.	Built by the City by Contract or Day Labor.	Built by Private Parties.	Total length built during the Twelve Months ending January 31, 1902.
	feet.	feet.	feet.
City Proper	5,734.98	389.00	6,123.98
East Boston	6,940.76		6,940.76
Charlestown	3,674.31	1,018.90	4,693.21
South Boston	8,438.41	3,559.91	11,998.32
Roxbury	23,102.58	1,003.76	24,106.34
West Roxbury	21,299.02	429.00	21,728.02
Dorchester	47,415.24	2,984.37	50,399.61
Brighton	5,487.22	4,619.73	10,106.95
Total	122,092.52	14,004.67	136,097.19

#### Summary of Sewer Construction for the Twelve Months ending January 31, 1902.

# Summary of Sewer Construction for Five Years previous to February 1, 1902.

	1897.	1898.	1899.	1900.	1901.
	feet.	feet.	feet.	feet.	feet.
Built by the city by con- tract or day labor	134,324.93	203,139.68	99,772.15	78,255.92	122,092.52
Built by private partles	38,969.14	9,325.99	17,955.05	15,438.28	14,004.67
Total number of feet built	173,294.07	212,465.67	117,727.20	93,694.20	136,097.19

#### STREET DEPARTMENT - SEWER DIVISION. 199

DISTRICT.	Total Length Built during 12 Months ending January 31, 1902.	Length Rebuilt and Abandoned during the 12 Months ending January 31, 1902.	Additional J for 12 Months January 31	s ending
	feet.	feet.	feet.	miles.
City Proper	6,123.98	4,046.70	2,077.28	0.39
East Boston	6,940.76	970.40	5,970.36	1.13
Charlestown	4,693.21	1,530.34	3,162.87	0.60
South Boston	11,998.32	2,807.84	9,190.48	1.74
Roxbury	24,106.34	2,072.44	22,033.90	4.17
West Roxbury	21,728.02	135.85	21,592.17	4.09
Dorchester	50,399.61	1,167.12	49,232.49	9.32
Brighton	10,106.95	235.15	9,871.80	1.87
Totals	136,097.19	12,965.84	123,131.35	23.31
Length built previous to Ja	nuary 31, 1901			527.75
Total				551.06
Length of intercepting sewe	er	••••		24.12
Total				575.18
Total mileage of streets	containing sewe	erage works		417.10

# Schedule of Sewers Built to Date in the City of Boston, February 1, 1902.

		Lengthin	Dimensions and	
Built in	Between	Feet.	Materials.	Kemarks.
Bowen street. Dunham street. Dunham street. East First street. East Ninch street. East Ninch street. Lastreet outlet. Michoell street. Oid Harbor street. West Seventh street.	Bowen street.       C street, westerly         Dunham street.       C street, westerly         Dunham street.       See Bast Ninth street.         East First street.       Vicksburg street and H street.         East First street.       Vicksburg street and H street.         East Ninth street.       Vicksburg street and H street.         East Ninth street.       Natreet to P street.         East Ninth street.       R street to L street.         Foundry street.       Broadway and Dorchester avenue.         Mitchell street.       Reserved Channel and East First street.         Mitchell street.       East Ninth street and erveling sewer.         Wast Seventh street.       Bast Street and erveling sewer.		145.55         12-inch pipe         Contract.           231.23         12-inch pipe         Contract.           237.27         5 fact, brick overflow         Contract.           280.00         12-inch pipe         Day labo.           280.01         12-inch pipe         Contract.           280.03         12-inch pipe         Contract.           280.03         12-inch pipe         Contract.           280.03         12-inch pipe         Contract.           277.00         5-foot wood overflow         Contract.           277.00         5-foot wood overflow         Contract.           277.01         5-foot wood overflow         Contract.           283.55         12-inch pipe         Contract.           29.48         4 feet × 4 feet 24 inclues, brick, Day labo.         Contract.	Contract. Contract. Day labor. Contract. Contract. Day labor. Contract. Contract. Day labor. Day labor.

South Boston.

Severs built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.

CITY DOCUMENT NO. 40.

Contract. Part rebuilt. Day labor. 12-huch pipe...... 6-inch pipe, honse drain..... 10-in. pipe, catch-basin drain, Is-inch pipe, surface drain ... 2 feet 6 închés, brick conduit, 24-inch pipe, surface drain... 20-inch pipe, surface draln ... 12-inch pipe, surface drain... 10-Inch pipe, surface drain... 12 catch-basins..... 2 catch-basins..... 2-inch pipe, sewer ...., 15-inch pipe, surface drain ... 1,448.91 138.00 376.84 2289.08 421.16 41.00 113.20 519.50259.007.00E street and F street..... Vale street and G street..... Columbia road..... Bowen street.....

as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.

Day labor. Day labor. Day labor. Park Department. Contract. Contract.	Contract or Day Labor. Contract. Contract. Contract.	ate Parties.	
2 ft. 6 in., brick surface drain, 10.in. pipe, catch-basin drain, 4 catch-basins	03, by the City, either by Contract 10-in. pipe, catch-basin drain 12-in. pipe, catch-basin drain 12-in. pipe, catch-basin drain 10-in. pipe, catch-basin	Tebruary 1, 1903, by Priv	10-in. pipe, catch-basin drain. 9 catch-basins. 5 drop inlets.
N. Y., N. H. & H. R. R. and street No.       215.00         IT40.       231.00         G street and H street.       132.75         Champney street and Vale street.       132.75         Champney street and Vale street.       132.75         P street and Q street.       133.02         Vale street.       19.00         Fargo st. and Summer st. extension       230.00         Fargo st. and Summer st. extension       230.00         East First street and Rast Second street.       230.00	tween February 1, 1902, and February 1, 190 Vickaburg street and H street	Surface Drains built between February 1, 1902, and February 1, 1903, by Private Parties.	Midway street
Columbia road	Surface Drains built be East First street		Midway street

## STREET DEPARTMENT - SEWER DIVISION. 201

South Boston. -- Concluded.

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rains built between February 1, 1902, and

	Saratoga street Trumbull street and Wordsworth street,	1,358.94	24-inch pipe } Day labor.	Contract. Day labor.
Severs built betu	<b>Charlestown.</b> Sewers built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.	Charlestown. bruary 1, 1903, t	of the City, either by Contro	ict or Day Labor.
Concord street.	Existing sewer and Bartlett street Arlington avenue and Mystic avenue Wapping street and Navy Yard	<pre>50.00 50.00 599.93 346.78 183.50</pre>	12-inch pipe. 112-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe.	Day labor. Day labor. Day labor. Day labor. Day labor. Contract.
ers built between Februar as .	Sewers built between February 1, 1902, and February 1, 1903, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	by the City of 1892, or	, in Streets laid out under c . Special Acts referring ther	hapter 323 of the Acts of 1891, eto.
Alford street	Alford street       Mystic river and Everett line         Austin street       Washington street and Lawrence street         Austin street       Arilington avenue and George street	368.01 368.01 18.96 187.18 801.49 801.49		Day labor. Contract. Day labor.
Rutherford areets	Rutherford avenue, Devens and ) Bow streets	253.99 244.00	12-Incu prpe, sewer	, Uay labor. Contract.

STREET DEPARTMENT - SEWER DIVISION. 203

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Sewers built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.

1	LOCALITY.	Length in	Dimensions and	Domoniza
Built in	Between	Feet.	Materials.	1001101109
Arden street	Arden street       Coolidge street and Hooker street         Dighton place       Summit avenue and about 170 feet north- Dighton place         District street       Summit avenue and About 170 feet north- easterly         District street       Summit avenue and About 170 feet north- easterly         District street       Summit avenue and About 170 feet north- easterly         District street       Narket street and Parsons street         Murdock street       Western avenue, and Linooln street         Nantasket avenue, La Rose       Poin street         Nantasket avenue, La Rose       Allston street         Nantasket avenue, La Rose       Commonwealth ave         Varens street       Commonwealth ave         Varent street       Commonwealth ave         Varent street       Commonwealth ave	242.00 242.00 1856.65 289.10 1500.04 1,750.04 1,750.04 1,750.04 160.52 100.06 530.32 100.05 530.15 220.15 220.15 220.15 220.15 220.15 20.01 20.0	242.00 I5-inch pipe 243.00 I5-inch pipe 218.66 I2-inch pipe 238.04 100-inch pipe 238.01 I2-inch pipe 730.17 I2-inch pipe 160.23 I2-inch pipe 605.52 I2-inch pipe 605.52 I2-inch pipe 530.32 I2-inch pipe 530.33 I2-inch pipe 530.45 I2-inch pipe 530.01 I2-inch pipe 530.01 I2-inch pipe 530.01 I2-inch pipe	Contract. Rebuilt. Contract. Day labor. Contract. Day labor. Contract. Contract. Contract. Day labor. Day labor. Day labor. Day labor. Day labor. Day labor. Contract.
Wallingford road	Wallingford road Unestrut Hill avenue and Melton road	00.00	adıd non-zı	Tay land.

as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.

Day labor.	. Day labor.	Day labor.	
6.38 10-in. pipe, catch-basin drain, 47.64 6-Inch pipe, house drain 1 catch-basin	90.86 6.inch pipe, house drain	176.82         6.inch pipe, house drain         50.04         10.in. pipe, catch basin drain,         Pay labor.	
{ 6.38 47.64	90.86     21.92     32     3	$\left\{\begin{array}{c} 176.82 \\ 50.04 \\ \ldots \\ $	
Faneuil street and Washington street	Faneull street and Washington street	Washington street and Union street	
Brackett street	Oak-square avenue	Snow street	

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Faneuil Valley brook	Fancuil street and Parsons street         Lake street and Rogers park         Foster street and Rogers park         Struthmore road and Englewood ave	$\left\{\begin{array}{c} 344.47\\ 344.47\\ 1,034.73\\ 269.26\\ 349.23\\ 349.07\\ 399.83\end{array}\right.$	11 feet $\times$ 9 feet, brick4 feet 6 ln., circular brick18.1nch pipe15.1nch pipe15.nch pipe16.et $\times$ 7 feet, brick12.inch pipe	Day labor. Day labor. Contract. Day labor. Contract.
Sew	Sewers built between February 1, 1902, and February 1, 1903, by Private Parties.	and Febru	ary 1, 1903, by Private I	arties.
Denton road Emery road Emery road Hollis road. Pearchia freet Penniman road Woodstock avenue.	Cambridge street and Braintree street. Denton road and Cambridge street Denton road and Cambridge street Rockland street and Winahlp street Hano street and Braintree street Wallingford road and Common wealth avenue	523 57 523 57 618 50 97 50 893 20 689 20 689 23 689 33 168.31 168.31 283.90	12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 10-inch pipe. 10-inch pipe.	
Sewers	Sewers Abandoned or Rebuilt between February 1, 1902, and February 1, 1903. Brighton.	en February Brighton.	/ 1, 1902, and February	, 1, 1903.
Arden street	Coolidge road and Hooker street	242.00	15-inch pipe	Rebuilt.
	Cha	Charlestown		
Concord street	Existing sewer and Bartlett street	50.00	12-inch pipe	Rebuilt.

STREET DEPARTMENT - SEWER DIVISION. 205

1903.	
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y 1, 1902, and February 1	
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1902,	
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ed or Rebuilt between February	East Boston.
between	East
Rebuilt	
or	
s Abandoned	
Sewers	

Bomunits		Zebuilt.		debuilt. Aebuilt.
Dimensions and	Materials.	273.10 $\begin{bmatrix} 4 & \text{feet} \times 4 & \text{feet } 3 & \text{in., brick} \end{bmatrix}$ Rebuilt.		$ \begin{array}{c c} 30.00 \\ \hline & 6 \text{ feet} \times 5 \text{ feet} 9 \text{ inches}, \text{ brick} \\ \text{culvert}, & 100 \\ \hline & 4 \text{ feet} 6 \text{ in}, \times 5 \text{ feet}, \text{ stone} \\ \text{side}, \text{ brick arch culvert}, \\ \end{array} \right\} \\ \textbf{Rebuilt}. $
Length in	Feet.		West Roxbury.	30.00 { 72.00 {
LOCALITY.	Between	300 feet west of Ashley avenue and Ash ley avenue	West	South street
Ite	Bullt in	Bennington street		South street

West Roxbury.

Sewers built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.

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Contract. Contract. Contract. Contract. Contract. Day Jabor. Day Jabor. Contract. Contract. Contract.
1484. 60         12. Inch pipe.           680. 75         12. Inch pipe.           680. 75         12. Inch pipe.           551. 45         15. Inch pipe.           551. 45         15. Inch pipe.           551. 45         15. Inch pipe.           389. 45         12. Inch pipe.           389. 45         12. Inch pipe.           389. 45         12. Inch pipe.           389. 46         12. Inch pipe.
Belgrade avc. and about 1,465 feet west. Poplar street and Whitford street Whitford street and 300 feet south Cedar avenue and 250 feet south Ornell street and Lark street Driole street and Lark street Blue Hill avenue and Calder street Powell street and Henhelt street Hendlel street and Farquhar street
Aldrich street. Augustus arvenue. Augustus arvenue. Bellevue arvenue. Bellevue arvenue. Bellevue street. Canterbury street. Cast street. Centre street. Centre street.

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	3 of the Acts of 1891,	
Contract. Contract. Contract. Contract. Contract. Contract. Contract. Day labor. Contract. Day labor. Contract. Contract. Contract. Day labor. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract.	apter 32 hereto.	Contract. Contract. Contract.
l2-inch pipe l2-inch pipe	in Streets laid out under ch r Special Acts referring t	10-in. pipe, catch-basin drain,         6-inch pipe, house drain         6-inch pipe, house drain         6-inch pipe, store         10-in. pipe, store         10-in. pipe, store         10-in. pipe, store         12-inch pipe, astwer         12-inch pipe, store         12-inch pipe, store
139.60 139.60 244.65 244.65 732.14 199.80 199.80 460.00 1,605.50 199.80 450.00 138.80 183.80 183.80 183.80 460.35 183.80 260.00 260.00 260.00	the City, of 1892, o	12.66 41.00 114.40 25.3 8.2.3 4.9.46 117 90.17 90.17 90.17
Farquiar street and Pletcher street Pletcher street and Montclair avenue. Columbus avenue and School street Norfolk street and 200 feet west. Norfolk street and Wyman street Selwyn street and 400 feet southerst. Belgrade avenue and Colberg avenue. Vermont street and 400 feet southerst. Brookside ave. and Washington st. Brookside ave. and Washington st. Bradford ferraet Pweld Hill street and Avtumn street Weld st. and about 450 ft. northwest. Weld st. and about 450 ft. northwest.	Sewers built between February 1, 1902, and February 1, 1903, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	Haverford street       Cornwall street and about 310 feet east         Louder's lane       Jamaicaway and Arborway.         South street       Jamaicaway and Arborway.         South street       Bynner street and Centre street         Tower street       Hyde Park avenue and Forest Hills
Centre street cleares street Cleares street Cleares street Cleares street Cleares street venue and kennedh street. Kittredge street. Kittredge and Norfolk streets. Kittredge and Norfolk streets. Malcolm street. M. Vernon street. M. Vernon street. Powell street. Powell street. Cremple street. Vernout street. Vernout street. Vernout street. Vernout street. Vernout street. Vernout street. Vernout street.	Sewers built between Februa as A	Haverford street

Contract.	Contract.	Contract.	Contract.
-ψ.	2 carch-basing 2 carch-basin drain, 14.40 10-in. pipe, catch-basin drain, 2 catch-basing	12-inch pipe, sewer	1 catch bash
$\left\{ \begin{array}{c} 12.66\\ 41.00 \end{array} \right.$	{ 14.40	2.53 66.23 49.46 49.46	$\left\{\begin{array}{c} 194.10\\ 631.70\\ 631.70\\ 90.17\\ 585.67\end{array}\right.$
Haverford street	Louder's lane	South Huntington avenue Bynner street and Centre street	Hyde Park avenue and Forest Hills Cemetery
Haverford street	Louder's lane	South Huntington avenue	Tower street

Sewers built between February 1, 1902, and February 1, 1903, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	Length in Dimensions and	Between Feet. Materials. Metarks.		Centre street and South street	72.00 4 ft. 6 in. × 5 ft., stone sides, Contract. Rebuilt.	Surface Drains built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.	Boylston and Lamartine streets       Stony brook and Bell street.       247.44       4 feet, circular brick.       200 brook         Boylston and Lamartine streets       Stony brook and Bell street.       247.00       13.22       24.inch pipe.       200 brook	rect
y 1, 1902, and February 1, 15 vended by chapter 418 of the	Locality.	Between	South street and Washington str	Centre street and South street		between February 1, 1902, a	Stony brook and Bell street	• •
Sewers built between Februan An	T	Built in	Walk Hill street.	Walter street		Surface Drains built	Boylston and Lamartine streets	Centre st., near Allandale st Cantre st., near Bellevue st Roslindale, branch of Stony brook in private land Montview and Kirk streets

West Roxbury.--Concluded.

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Contract. Contract. Day labor.	act or Day Labor.	Contract. Rebuilt.	arties.		tract or Day Labor.	Contract. Day labor. Rebuilt. Day labor. Day labor. Day labor. Rebuilt.
<pre>3 feet, circular brick 4 feet × 1 foot6 inches, wood, 4 feet 3 inches, circular brick,</pre>	by the City, either by Contr	6 feet × 5 feet 9 inches, brick, Contract. Rebuilt.	ury 1, 1903, by Private F	12-inch pipe. 10-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe.	y the City, either by Com	12-inch pipe       12-inch pipe       12-inch pipe       12-inch pipe       12-inch pipe       12-inch pipe       13-inch pipe       13-inch pipe       13-inch pipe       13-inch pipe       13-inch pipe, sever       13-inch pipe, sever       13-inch pipe, sever       13-inch pipe, sever
89.30 299.16 475.00	g 1, 1903,	30.00	and Febru	$\begin{array}{c} 794.66\\ 81.68\\ 460.50\\ 1,231.84\end{array}$	Dorchester. ruary 1, 1903, l	296.12 296.12 296.12 202.66 257.40 235.74 225.78 235.78 257.90 54.00
hland street and Rowe street Mt. Hope street and 300 feet west 50 feet west of Stedman street and 200 feet cast of Plainfield atreet	Culverts built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.	South st., near Arnold Arboretum,	Severs huilt between February 1, 1902, and February 1, 1903, by Private Parties.	South street and Centre street.	Dorchester. Sewers built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.	Bullard street       Rosseler street and Bowdoln avenue         Carson street.       Sholbure street and Crescent arenue         Cornell street.       Bellevune street, enskrift         Cornell street.       Bellevue street, enskrift         Conditige terrate       Marshfield street and E. Cottage street.         Cottage terrate       N. Y., N. H. & H. R. R. and Crescent ave.
Neponset avenue, brook in pri- vate land	Culverts built be	South st., near Arnold Arboretum,	Sew	Bradford terrace	Severs built between	Bullard street Carson street. cornell street. cottage terratee

## STREET DEPARTMENT --- SEWER DIVISION. 209

Continued.
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Sewers built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.

Dimensions and	Materials.	12.Inch pipe     Contract.       16.inch pipe     Contract.       16.inch pipe, house drain     Contract.       12.inch pipe, house drain     Contract.       12.inch pipe.     Contract.
	Feet. Mater	738.50         12.1nch pipe           712.00         16.1nch bron pipe           712.00         16.1nch pipe           72.00         16.1nch pipe           72.00         15.1nch pipe           738.50         15.1nch pipe           749.60         12.1nch pipe           757.70         12.1nch pipe           757.73         12.1nch pipe           757.50         12.1nch pipe           757.51         12.1nch pipe           757.53         12.1nch pipe
Ten		
LOCALITY.	Between	Fox street.       Adams street and Percival avenue.         Freeport-street brook.       Hancock street and Trull street.         Geneva avenue.       Normandy street and Blue Hill avenue.         Harvard street.       Normandy street and Blue Hill avenue.         Harshield street.       Normandy street and Blue Hill avenue.         Massoina street and Blue Hill avenue.       Normandy street and Blue Hill avenue.         Massoina street.       Narsoina street and Magnolla street.         Massoina street.       Norrola street and Lawrence avenue.         Massoina street.       Stan wood street and Hill avenue.         Spring street.       Stan wood street and Savin Hill avenue.         Street.       Bay street and Savin Hill avenue.         Massoina street.       Stan wood street and Savin Hill avenue.         String street.       Bay street and Savin Hill avenue.         Massoina street.       Bay street and Savin Hill avenue.
L.	Built in	Fox street

Sewers built between February 1, 1902, and February 1, 1903, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.

Bird street	Columbia road and Hancock street	$\left\{\begin{array}{c} 279.10\\ 10.00\\ 301.00\end{array}\right.$	279.10         12-inch pipe, sewer           10.00         10-in. pipe, catch-bash drain           301.00         65-inch pipe, conce drain           2 catch.bashs.         2 catch.bashs.	Contract.
Charlotte street	Charlotte street Blue Hill avenue and Bradshaw street,	297.65 316.05 102.70 228.00		• Contract.

		lbor. tet.	tet.	lbor.	let.	let.	let.	tet.	let.	tet.
		Day labor.	Contract.	Day labor.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract.
	<ul> <li>5 catch-basins.</li> <li>12-inch pipe, sewer.</li> <li>10-in. pipe, cutch-basin drain.</li> <li>6-inch pipe, house drain.</li> <li>3 catch-blasins.</li> </ul>		1 catch basin 10-in pipe, catch basin drain, 6-inch pipe, house drain 2 catch basins	-	: : :	10-in. pipe, catch-basin drain, 6-inch pipe, house drain 2 catch-basins		12-inch pipe, sewer 10-In. pipe, catch-basin drain, 6-inch pipe, house drain 4 orted basine	15-Inch pipe	12-inch pipe
$35.24 \\ 82.58 \\ 65.52$	55.25 36.00 26.00	34.00 58.00 133.00 152.00 152.00 182.00	39.00 147.20	81.20 15.36 63.55	36.00	52.00 400.00	39.00 6.00	244.90 120.50 393.50	303.90 90.60 56.00	$\begin{array}{c} 170.00\\ 88.00\\ 250.00\end{array}$
Buttonwood street and N.Y., N. H. & II.	Washington st. and Greenbrier st	Blue Hill avenue and Mascoma street	Columbia road and Mt. Everett street	Columbia road and Winter street	Pleasant street and Bakersfield street	Greenbrier street and Waldeck street	Pleasant street and Bakersfield street	Boston street and Roseclair street	Geneva avenue and Park street	Dacia street and Howard avenuc
Columbia road }	Dakota street	Faysion street	II.a.milton street	Hancock street	Hinckley street	Lindsey street	Morrill street	St. Margaret street	Vinson street	Wayland street

Surface Drains ouu	Surface Drains Dunie Decideen Fedraury 1, 1902, and Fedraury 1, 1909, og nie Orig, enner og Odna uco of Day Auon	or 'r hinni	vo, vy vie viey, civici vy v	· mont for in one mul
Ite	LOCALITY.	Length in	Dimensions and	Ramarka
Built in	Between	Feet.	Materials.	
Carson street Clapp street	Shelburne street and Crescent avenue Massachusetts avenue casterly	$\left\{\begin{array}{c} 209.96\\ 175.00\\ 155.24\end{array}\right\}$	4 feet 3 inches, brick conduit, 12:10, pipe, catch-basin drain, 10:10, pipe, catch-basin drain, 3 corted hasing	Day labor. Contract.
Crescent.avenue brook	N. Y., N. H. & H. R.R. and Crescent ave.,		6 feet 6 inches, brick conduit, 4 feet 3 inches, brick conduit, 4 feet, brick conduit,	Day labor.
Freeport-street brook	Hancock street and Trull street	100.03 52.00 86.00 86.00 86.00	4 teet, bitck surface drain. 3 ft. 6 in., brick surface drain. 18-inch pipe, surface drain 15-inch pipe, surface drain 13-thch pipe, surface drain	Contract.
Freeport street brook	Tide-water and Bowdoin street Geneva avenue and Marlowe street	890.17 690.17 68.50 68.50	10.Inch pipe, surface drain 6 feet, brick conduit 4 feet 6 inches, brick conduit, 3 feet 6 inches, brick conduit,	) Day labor. Day labor.
Sewe	Sewers built between February 1, 1902, and February 1, 1903, by Private Parties.	, and Febru	tary 1, 1903, by Private I	Parties.
Millet street	Faxon street and existing sever Sagamore street and Dorchester ave Sumner street westerly	461.36 478.25 183.30	l2-inch pipe. 12-inch pipe. 12-inch pipe.	
	Sewers abandoned or rebuilt between February 1, 1902, and February 1, 1903.	February	l, 1902, and February 1, 19	0.8.
Carson street	Shelburne street and Cresent avenue Bradshaw street and Blue Hill avenue Marshfield street and East Cottage st	<pre>208.05 208.05 32.00 50.00 357.40</pre>	12-inch pipe 18.inch pipe 10-inch pipe	Rebuilt. Abandoned. Rebuilt. Rebuilt.

Dorchester - Concluded

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Rebuilt.	Rebuilt. Rebuilt.	Rebuilt.	Abandoned. Rebuilt. Rebuilt.	
202.66 20.inch pipe 295.94 18.inch pipe 23.78 12.inch pipe	15-inch pipe	30 hr. × 18 in., stone culvert 18-inch pipe, surface drain	8-inch pipe 12-inch pipe 15-inch pipe	
202.66 295.94 23.78		25.00	49.00 266.20 303.90	
N.Y., N. H. & H. R. R. and Cresent ave	Hancock street and Trull street Blue Hill avenue and Esmond street	Columbia road and Winter street	Norfolk avenue and Cottage terrace Geneva avenue and Park street	
Crescent-avenue brook	Freeport-street brook	Ilancoek street	Marshfield street	

South Dorchester.

Sewers built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.

1,176,60 257,67 559,85 539,85 539,85 539,85 510,33 510,33 510,45 510,42 510,40 456,00 458,56 22,280,00 4581,55 2311,25 2311,25 250,00 6582,80 154,85 250,00 6582,80 154,85 250,00 6582,80 154,85 250,00 6582,80 154,85 250,00 6582,80 154,85 250,00 154,85 250,00 154,85 250,00 154,85 250,00 154,85 250,00 154,85 250,00 154,85 250,00 154,85 250,00 154,85 250,00 154,85 250,00 154,85 250,00 154,85 250,00 154,85 250,000 250,000 200,000 200,000 200,000 200,000 200,000 200,000 200,000 200,000 200,000 200,000 200,000 200,000 200,000 200,000 200,000 200,000 200,0000 200,000 200,000 200,000 200,000 200,000 200,00000000	Contract. Considerable rock. Contract. Some rock.
1,176.60 357.67 353.85 539.85 539.85 519.45 519.45 519.45 519.45 519.45 519.45 519.45 519.45 519.45 550.00 839.00 656.10 556.10 556.10 556.10 556.10 556.10 556.10 556.10 556.10 556.10 556.10 556.10 556.000	12-inch pipe, sewer
	1,

#### STREET DEPARTMENT — SEWER DIVISION. 213

nued.	
– Conti	
Dorchester	
South	

Severs built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.

Remarks.		Contract. Some rock. Contract. Considerable rock. Contract. Considerable rock. Contract. Considerable rock. Contract. Considerable rock. Contract. Considerable rock.	pter 323 of the Acts of 1891, as cto.
Dimensions and	Materials.	546.75         12-inch pipe, sewer.         Contract           789.66         12-inch pipe, sewer.         Contract           390.60         12-inch pipe, sewer.         Contract           337.60         12-inch pipe, sewer.         Contract           337.60         12-inch pipe, sewer.         Contract           337.60         12-inch pipe, sewer.         Contract           730.03         12-inch pipe, sewer.         Contract           730.03         12-inch pipe, sewer.         Contract           139.62         12-inch pipe, sewer.         Contract	Streets laid out under cha Special Acts referring ther
Length in	Feet.	546.75 789.66 1,940.50 1,940.50 2227.60 2227.60 750.00 139.62	the City, in of 1892, or
Locality.	Between	Private land west of Dorchester A vondale pl. and St. Gregory's Church.         avenue       avenue         avenue       Welles street.         River street.       Washington street and Idaho street.         Stratton street.       Byisting gewers.         Tienple street.       Blue Hill avenue and Mataphan street.         Wrentham park       Blue Hill avenue and Mataphan street.	Sewers built between February 1, 1902, and February 1, 1903, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amonded by chapter 418 of the Acts of 1892, or Special Acts referring thereto.
Lo	Built in	Private land west of Dorchester avenue	Sewers built between February

reto.	Contract. Some rock.	Contract. Some rock.	Day labor. Considerable rock.	Contract. Some rock.
Special Acts referring the	12. inch pipe, sewer			487.2024.1in. pipe, catch basin drain, 130.0024.1in. pipe, catch basin drain, 16.0012.1in. pipe, catch basin drain, 100.00100.00101.12.1in. pipe, catch basin drain, 100.00Contract. Some rock. 652.20672.006.1in. pipe, sower6.7cm6.7cm6.7cm672.006.1in. pipe, house drain6.7cm6.7cm6.7cm
I 1892, or	236.56 21.00 180.70	454.78 24.25 17.59 219.00	$1,351.40\\133.00\\319.30\\404.20$	487.20 130.00 16.00 592.22 672.00
Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	Ainsley street	Greenhill and Preston streets, and out- let for catch-bash drain in Preston street	Bine Hill avenue	Florida-street extension Templeton street and Ashmont street
A	Ainsley street	Blanche street	Blue Hill avenue	Florida-street extension

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	ne rock.	Contract. Considerable rock.	Contract. Considerable rock.	Some rock.	Contract. Considerable rock.	ay Labor.	-Contract. Considerable rock.
Contract.	Contract. Some rock.	Contract. Cor	Contract. Cor	Contract. Son	Contract, Co	Contract or D	Contract. Cor
12-inch phy, sewer	10-inch pipe, sewer 12-in. pipe, catch-basin drain, 10-in. pipe, catch basin drain, 6-inch pipe, house drain	2 catch plasms	12-inch pipe, sewer	a catton-Dagms	12-inch pipe, sever	03, by the City, either by	<ul> <li>24-in. pipe, catch-basin drain, 20-in. pipe, catch-basin drain, 15-in. pipe, catch-basin drain, 15-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 0-in. pipe, catch-basin drain,</li> </ul>
$\left \begin{array}{c}174.85\\419.75\\200.00\\1100.00\\160.00\\160.00\end{array}\right $	$\left\{\begin{array}{c} 209.75\\ 14.00\\ 26.85\\ 211.00\\ \end{array}\right\}$	487.60 27.45 187.00	378.75 120.13 437.38 822.00 172.00	54.00 318.00	204.05 27.44 27.44 41.87 63.00 359.00	uary 1, 190	160 00 27.15 408.00 35.00 48.00 48.00
Talbot avenuc and Southern avenue	Lauriat avenue and Norfolk street	And outlet for catch basin drain in Nor- folk street	Rosemont street Adams street and Gustine street	Talbot avenue and Euclid street	Washington street and Whittield street.	Surface Drains built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.	With outlet in private land
Millet street	Milton avenue	Oakwood street	Rosemont street	Washington street	West Trendett street	Surface Drains built i	Avondale place

## STREET DEPARTMENT --- SEWER DIVISION. 215

· Surface Drains buil	Surface Drains built between February 1, 1902, and February 1, 1903, by the City, either of Contract of Day Labor.	061 '1 han.	13, by the City, ether by CC	ontract or	Day Labor.
LO	LOCALITY.	Length in	Dimensions and		Domoulos
Built in	Between	Feet.	Materials.		INCINALAS.
		1,028.00	4 feet 9 inches diameter, brick		
Canterbury branch of Stony brook	In Franklin Field, near Talbot avenue	520.53 560.00 74.00	30-in. pipe. cater-basin drain, 18-in. pipe. cater-basin drain, 18-in. pipe. caterbasin drain, 5 feet 3 inches diameter, brick	Contract. Some rock.	Some rock.
		762.00	conduit 1 catch-basin (rebuilt) 4 feet 9 inches diameter, brick		
Davenport brook in private   land and Hillside terrace }	Van Winkle street and Bailey street	40.00	conduit	>Day labor.	
		···· ··· )	1 catch-basin		
Hildreth-street spur, Canterbury ) branch of Stony brook 5	Middleton avenue and Morton street	575.97	18-in. pipe, catch-basin drain,	Contract.	Contract. Considerable rock.
Moultrie street	Allston street and Washington street	29.50	10-in. pipe, catch.basin drain, 2 catch-basins	Contract.	
. Norfolk street	Capen street and Nelson street	$\left\{\begin{array}{cc} 516.50\\ 26.00\end{array}\right\}$	12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain,	Contract.	Contract. Some rock.
		( 24.00	5 feet 3 inches diameter, brick		
Oakland Garden fork, Canter- bury branch of Stony brook, }	In Franklin Field	8.00	conduit	Day labor.	Some rock.
		66.50	10 ft. dlameter, brick conduit, 8 feet3 inches dlameter, brick		
Oakland Garden fork, Canter- bury branch of Stony brook, f	In Franklin Field.	82.00	conduit	Contract.	· Contract. Considerable rock.
		230.00	3 feet 6 inches diameter, brick		
Oakland Garden fork, Canter- bury branch of Stony brook,	In Millet street and Wheatland avenue.	40.00 37.00	22 in the catch-basin drain, 12 in. pipe, catch-basin drain, 10 in. pipe, catch-basin drain, 3 catch-basine	Day labor-	

South Dorchester. -- Concluded.

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Contract. Day labor. Contract. Considerable rock. Day labor. Contract.	ntract or Day Labor. Contract. Day labor. Day labor. Rebuilt. Contract. Day labor. Part rebuilt. Contract. Day labor. Rebuilt.
171.008 foot 6 inches $\times$ 5 feet 341.40Inches, brick conduit41.40Acet 91 inches diameter, brick conduit.entrim225.0012:1n pipe, catch-basin drain229.0010:in, pipe, catch-basin drain239.1010:in, pipe, catch-basin drain239.1010:in, pipe, catch-basin drain239.1010:in, pipe, catch-basin drain239.1010:in, pipe, catch-basin drain333.67 $\beta$ catch-basin drain453.67 $\beta$ catch-basin drain53.0012:in pipe, catch-basin drain53.0012:in pipe, catch-basin drain53.0010:in, pipe, catch-basin drain	by the City, either by Co 12-inch pipe 23-inch pipe 23-inch pipe 23-inch pipe 13-inch pipe 13-inch pipe 12-inch pipe 13-inch pipe 13-inch pipe 13-inch pipe 13-inch pipe 13-inch pipe 13-inch pipe 13-inch pipe 13-inch pipe
$\left\{\begin{array}{c} 171.00\\ 41.40\\ 200.00\\ 725.00\\ 200.00\\ 451.00\\ 185.50\\ 185.50\\ 85.00\\ $	Roxbury. <i>tary 1, 1903</i> , <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i> <i>t</i>
Oakland brook	en February 1, 1902, and Febru Atherton pl. and outlet in Atherton s School street and Atherton street Gerard street and Atherton street Worfolk aven ue and easterly Winslow street and Harrison avenue Blue Hill avenue and westerly
Oakland brook	Sewers built betwee Atherton st. and Atherton place. Burnham, Southampton a nd , Atkinson streets

#### STREET DEPARTMENT --- SEWER DIVISION.

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Severs built between February 1, 1902, and February 1, 1303, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chanter 218 of the Acts of 1892, or Snecial Acts referring thereto.

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ereto.	-	Kemarks.	Contract. Contract.	ontract or Day Labor.	Day labor.	Day labor.	1903.	Rebuilt. A handoned. Rebuilt. Rebuilt. Rebuilt. Rebuilt.
· Special Acts referring th	Dimensions and	Materials.	12.inch pipe	3, by the City, either by C	10-inch pipe	3 feet, brick 2 feet 6 holes, brick 24 inch pipe 24 inch pipe 2 feet, brick 10-Inch pipe	1902, and February 1,	12-Inch pipe
of 1892, 01	Length in	Feet.	$\left\{\begin{array}{c} 214.47\\ 51.00\\ 51.00\\ 320.00\\ 320.00\\ 320.00\\ \end{array}\right.$	uary 1, 190	228.00	278.57 319.83 150.67 31.40 102.00	February 1,	$\left\{\begin{array}{c}352.10\\250.00\\155.00\\152.00\\122.00\end{array}\right\}$
as Amenaev oy chapter 418 of the Acts of 1892, or Special Acts referring thereto.	LOCALITY.	Between	Columbus avenue and Marcella street Dennis street and Brook avenue	Surface Drains built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.	Waumbeck street and Harrishof street.	Railroad and Magazine street	Severs abandoned or rebuilt between February 1, 1902, and February 1, 1903.	Massachusetts avonue and tidewater Tremont street and Columbus avonue Gerard street and Magazine street Winslow street and Harrison avonue
. 33	. Fo	Built in	Ritchie	Surface Drains built	Humboldt avenue	Massachusetts avenuc	Ser	Burnham, Southampton and Atkinson streets Davenport street

Sewers built between February 1, 1902, and February 1, 1903, by Private Parties.

llarold street	Wammbeck street and Crawford street Holborn street and private land	235.00 391.14	12-inch pipe. 12-inch pipe.
Sewers	Sewers huilt between February 1, 1902, and February 1, 1903, by Contract or Day Labor.	February	1, 1903, by Contract or Day Labor.
Mountfort street.	At Audulion road	46.15 321.72 379.92 379.92 287.16 428.50 134.49	12.inch pipe, sewer
Caldwell and Halleck streets	Italleck street and Parker street	404.32 100.00 6.00	12-incluipte, sewer
llalleck street	Caldwell street and Prentias street	265 50 60.00 34.00 34.00	6-inch pipe, house drahm
Severs built between Februar	y 1, 1902, and February 1, 1903, by the City, in Streets laid out under chapter Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	the City, in of 1892, or	Newers built between February 1, 1902, and February 1, 1903, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.
Darling street	Calumet street and Hillside street	$\left\{\begin{array}{c} 7.00\\ 28.00\\ \ldots \end{array}\right.$	6-inch pipe, house drain
Bynner street	Creighton street and Day street	281.20 186.00 24.00	12-inch pipe, sewer
Blandford street	Commonwealth ave. and B. & A. R.R	293.68 110.55 359.32 32.67	a cucuration and the sever

#### STREET DEPARTMENT - SEWER DIVISION.

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been Febru in t	Sewers built between February 1, 1902, and February 1, 1903, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	LocaLITY. Length in Dimensions and D		[ Blandford street and Avon (now Law- ton) street	$\left(\begin{array}{c} 444.40\\ 21.33\\ 30.00\\ 108.40\\ 154.20\\ 159.80\end{array}\right)$	Sewers built between February 1, 1902, and February 1, 1903, by Contract or Day Labor.	Parker street and Whitney street Smith street and Tremont street (Refill ) 214.90	$\left. \begin{array}{c c} 26.00 & 18.1n. \text{ pipe}, \text{ catch-basin drain}, \\ 4.00 & 10.1n. \text{ pipe}, \text{ catch-basin drain}, \\ 4.00 & 3.1n. \text{ pipe}, \text{ catch-basin drain}, \\ 4.00 & 3. \text{ feet } \times 2. \text{ feet 9 inches, brick}, \end{array} \right\} Day labor.$
built beti Built Built street arry street arreet arreet arreet arreet arreet arreet	s built between February 1, 1902, and Februar Amended by chapter 4	LOCALITY.	Built in Between	Cummington street	Jersey street	Sewers built between Februar	Smith street, (Smith.street dis. { trict surface drainage) Whitney street, (Smith.street district surface drainage)} Smith street and Tremo	Tremont street, (Smith-street) Whitney street and St. A district surface drainage)}

Roxbury. -- Concluded.

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Day labor.	Day labor.	Contract.	Contract.	Day labor.	
	422	40.00 12-in. pipe, catch-basin drain, 133.00 10-in. pipe, catch-basin drain, 7 catch basins.	10-in. pipe, catch-basin drain, Contract.	12-10. pipe, catch-basin drain, 12-10. from pipe, catch-busin drain. pipe, catch-busin 10-in. pipe, catch-busin drain, 4 catch-basins	
881.85 49.00 28.90 54.80 7.00	193.32 24.00	40.00 133.00	78.00	44.75 56.70 67.20	
South Huntington ave. and Lawn st	St. Alphonsus street and Pontiac street,	Tremont street Hunthngton avenue and Pontiac street.	Parker street Neath street and Fisher avenue	Huntington avenue and South II unting- ton avenue	
Heath street	Tremont street	Tremont street	Parker street	Heath street	

City Proper.

Sewers built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.

Traverse street	Traverse street		30 in. × 36 in., brick sewer Day labor. Piles by contract.	Day labor.	Piles by contract.
Edinboro' street.	Edinboro' street Beach and Essex streets	177.70	$30 \text{ in } \times 36 \text{ in., brick sewer} $ Day labor.	Day labor.	
Richmond and North streets	Richmond and North streets Fulton and Sun Court streets			Day labor.	
Village street	Village street Compton and Dover streets	124.50	12-Inch pipe, sewer	ay labor.	Rebuilding.
NDCCLADD Street	Atlantic avenue and South street	215.00	$\frac{2}{2}$ ft. 6 in. $\times 3$ ft., brick sewer, I	ay labor.	I
Garland street	Garland street	296.37	12-inch pipe, sewer.	Day labor. Day labor.	
Prospect and South Margin sts	Prospect and South Margin sts	225.90	30 in. × 36 in., brick sewer   Day labor.	Day labor.	
Chatham street	Chatham street Merchants row, 100 feet easterly	102.54	15-inch pipe, sewer	Day labor.	
Cotting and Wall streets	Cotting and Wall streets	~	24-inch pipe, sewer	Day labor.	

# STREET DEPARTMENT - SEWER DIVISION.

Concluded.
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City

Severs built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.

t	IVEIDAFKS.	Day labor. Day labor. Day labor. Contract. Contract and day labor. Contract. Day labor. Rebuilding. Day labor. Contract. Day labor. Day labor.
Dimensions and	Materials.	
Length in	Feet.	$\begin{cases} 181.47\\ 213.60\\ 810.78\\ 910.78\\ 910.78\\ 910.49\\ 818.49\\ 188.49\\ 188.49\\ 188.49\\ 188.49\\ 188.85\\ 330.43\\ 330.43\\ 330.43\\ 330.43\\ 14.55\\ 14.$
LOCALITY.	Between	Pleasant street.Tremont and Carver streetsISI 4712-inch pipe, sewerThacher street.Washington st. north and Endicott st.81 m. yrick sewer90 in. × 36 in., brick sewerEndicott street.Washington st. north and Endicott st.81 m. yrick sewer90 in. × 36 in., brick sewerEndicott street.Thacher street.80 in. × 36 in., brick sewer81 m. yrick sewerEndicott street.Thanover street.80 in. × 36 in., brick sewer81 m. yrick sewerEndicott street.Cross and Washington streets.83 m. yrick sewer83 m. yrick sewerEndicott street.Cross and Washington streets.83 m. yrick sewer83 m. yrick sewerElst street.Cross and Washington streets.83 m. yrick sewer83 m. yrick sewerState street.Commercial and Clark streets83 m. yrick sewer83 m. yrick sewerState street.Commercial and Milton streets.205 2924 mch pipe, sewerPassageway of Excter street.Boylston street.14.553 feet 4 fordes sewerSouth street.At North Market street.14.553 feet 4 fordes sewerSouth street.Boylston and Bauden streets.14.553 feet y fordes sewerSouth street.Boylston street.16.5510 m. sewerSouth street.Boylston and Bauden streets.30 set y fordes werSouth street.Boylston and Bauden streets30 set y ford y fordes sewerSouth street.Boylston street.14 knSouth street.Boylston street.14 knSouth street.Boyl
LC	Built in	Pleasant street

Day labor.	Contract.
<ul> <li>172.00 Sinch pipe, house drain</li> <li>28.00 6-inch pipe, house drain</li> <li>100.00 10-in. pipe, catch-basin drain,</li> </ul>	27.00         4 catch lastns.           27.00         10.in. pipe, catch lastn drain,           2 catch lastns.         2 catch lastns.           1 manhole.         1
<u> </u>	
Columbus avenue and Boylston street	West Brookline and West Newton sts
Borkeley street	Newland street.

1903, by the City, either by Contract or Day Labor.	2-inch pipe, surface drain 10-inch pipe, surface drain 2 cutch-basins	ruary 1, 1903, by Private Parties.	2 ft. 2 in. × 3 ft. 3 in., brick Transit Commission (carried over).	20     Server.     Built by Transit Commission.       15.inch pipe, sever.     12.inch pipe, sever.       12.inch pipe, sever.     Transit Commission.	, by the City, either by Contract or Day Labor.	12.inch pipe       12.inch pipe         3 ft. 6 in. × 3 ft. 8 in., brick, 12.inch pipe       Day labor. Rebuildlug.         12.inch pipe       Day labor. (Special Draft, Dorscher Street.)         15.inch pipe       Chester street.)         24.inch pipe       Chester street.)         24.inch pipe       Day labor. (Special Draft, Dorscher Street.)         15.inch pipe       Day labor. (Special Draft, Dorscher Street.)         24.inch pipe       Day labor. (Special Draft, Dorscher Street.)         15.inch pipe       Day labor. Rebuilding.         12.inch pipe       Day labor. Rebuilding.
uary 1, 1	338.86 72.90	and Feb	128.00	718.00 183.50 112.00 100.00	South Boston.	205.40 205.40 145.00 52.50 261.50 261.82 261.80 261.80 261.96 261.96
Surface Drains built between February 1, 1902, and February 1, 1903, by the City, either by Contract or Day Labor.	Massachusetts avenue	Severs built between February 1, 1902, and February 1, 1903, by Private Parties.	State strect Opposite India street	State street (both sides)       Devonshire and India streets         Court street (north side)       Washington street, westerly	South Boston. Sewers built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.	Covington street.       Columbia road and Bast Eighth street.         Dresser and D streets.       Dorclester avenue and Eighth street.         Dorchester street       West First street and Dorchester aven.         F street.       West First street and West Second st.         L street.       East Broadway and East Third street.

STREET DEPARTMENT - SEWER DIVISION.

Severs built between February 1, 1903, and February 1, 1904, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of Acts of 1892, or Special Acts referring thereto.

4			Cı	тү D	OCUME	Ϋ́	No.	40.		
1 660.	Domoute	Tremat x 8.	Contract.	Day labor.	Day labor.	Day labor. Rebuilding.	.Day labor.	.Day labor,	Day labor,	Rebuilt.
Decini Acis referring the	Dimensions and	Materials.	12-inch pipe, surface drain 10-inch pipe, surface drain 3 carter busins	inches, hurdes exercises 10-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 6 catch basin drain,	2 ft. 6 in., brick surface drain, 15 inch pipe, surface drain 12 inch pipe, surface drain 12 inch pipe, surface drain 4 catch-lustins.	3 manholes	10-inch pipe, surface drain 2 catch-basins	2 ft. 6 in., brick surface drain, 13.inch pipe, surface drain 12.inch pipe, surface drain 10.inch pipe, surface drain 2.inch pipe, sewer 8 catch basins	2 ft. 61n., brick surface drain, 2 ft. 61n., brick surface drain, 2 f. 1nch pipe, surface drain 1 f. 1nch pipe, surface drain 1 2 inch pipe, surface drain 0	12-inch pipe, sewer.
1 1092, UT	Length in	Feet.	$\left\{\begin{array}{c} 139.85 \\ 67.90 \\ 917.00 \end{array}\right.$	27.00	93.80 230.12 69.00 41.00	205.23	41.00	564.97 46.22 156.92 332.00	221.11 754.77 754.77 754.77 752.54	1,013.23
as Amenuea oy chapter 410 of Acts of 1092, or Special Acts rejerring increase	Locality.	Between	Mt. Vernon street and street No. 1746	Street No. 1746 and Preble street	N.Y., N.H. & H. R.R. and street No. 1746.,	Newman street and Vale street	Vale street and G street	M street and O street	O street and Q street	
1 800	Lo	Builtin	Columbia road	Columbia road and outlet in Old ( Colony avenue	Columbia road	Columbia road	Columbia road	Columbia road	Columbia road	

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	Rebuilt.				)ay Labor.			
Contract.	Day labor. Rebuilt.	Contract.	Day labor.	Contract.	Contract or I	Contract. Day labor.	1904.	Rebuilt. Rebuilt. Rebuilt. Rebuilt. Rebuilt. Rebuilt.
	<ul> <li>b feet 6 inches, circular brick, overflow</li></ul>	Inclues, brick sewer 12.inch pipe, sewer 12.inch pipe, sewer 12.inch pipe, sewer 12.inch pipe, service drain 12.inch pipe, surface drain 12.inch pipe, surface drain 6.non-blose	5 cutch bachis 5 cutch bachis 2 drop-intets		04, by the City, either by C	10-inch pipe 10-inch pipe	1, 1903, and February 1,	3 feet 8 inches $\times$ 3 feet, wood, 181n. $\times$ 16 in, brick and wood, 18 inches, wood. 20 inches, $\times$ 36 inches, brick. 30 inches $\times$ 38 inches, brick. 24 inches $\times$ 18 inches, brick. 1 ft, 8 in. $\times$ 2 ft, 3 in, brick. 2 feet $\times$ 3 feet, wood
{ 401.16 154.70	251.05	499.31 746.17 374.17 374.14 31.70 155.03	27.00 27.00 559.54 54.80 78.10 78.10 503.75	$\left\{\begin{array}{c} 352.25\\ 19.00\\ 290.00\end{array}\right\}$	ruary 1, 19.	65.00 $136.00$	February .	406.17 2055.23 371.17 285.00 285.00 28.80 28.80 28.80 140.00 140.00
N.Y., N.H. & H, R.R. and street No. 1746	At Vale street	Newman street and Preble street I street and K street	K street and M street	N street and O street	Surface Drains built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.	F street and E street	Sewers abandoned or rebuilt between February 1, 1903, and February 1, 1904.	At Vale street
Columbia road	Columbia road	Columbia road	Columbia road	Swallow street	Surface Drains built	Dresser street	Se	Columbia road Columbia road Columbia road D street L street

STREET DEPARTMENT - SEWER DIVISION. 225

L	LOCALITY.	Length in	Dimensions and	Dameira
Built in	Between	Feet.	Materials.	AUTIALES.
Butler avenue	Saratoga street and Faxon street Existing sever east of Glendon place and about 150 feet westerly Farington ave. and Montunorend ave Border street (at Lexington street) and tide.water Bennington street and B., R.B. & L. R.R.	\$70.08 65.73 820.81 125.00 525.23	12-inch pipe 15-inch pipe 10-inch pipe 3 feet, circular wood 12-inch pipe	Contract. Day labor. Contract. Day labor. Contract.
Sewers built between Februa	Sewers built between February 1, 1903, and February 1, 1904, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	y the City, ts of 1892,	in Streets laid out under c or Special Acts referring th	hapter 323 of the Acts of 188 hereto.
Bennington-street Boulevard: } South side	emiligron-street Boulevard:       Sluiceway and Wordsworth street.         South side.       Sluiceway and Trumbull street.         North side.       Sluiceway and Trumbull street.         North side.       Sluiceway and Trumbull street.         South side.       Saratoga street and sluiceway.         South side.       Saratoga street and Sluiceway.         North side.       Saratoga street and Ashley street.         North side.       Saratoga street and Leyden street.         North side.       Saratoga street and Leyden street.         North side.       Saratoga street and Leyden street.	75.05 217.83 2217.83 2217.83 2217.83 2217.83 2227.405 645.06 645.06 73.39 73.39 73.39 73.39 73.39 74.00 1,400.445 1,400.455 1,400.445 1,400.4051,400.405 1,400.4051,400.405 1,400.4051,400.405 1,400.4051,400.405 1,400.4051,	12-inch pipe 12-inch pipe 12-inch pipe 13-inch pipe 00-inch pipe 10-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe 24-inch pipe 24-in	Day labor. Contract. Day labor. Day labor. Contract. Contract. Contract. Contract. Contract. Day labor. Day labor. Day labor. Nemt Heights high level. Contract.

East Boston.

Seners built between February 1. 1903, and February 1. 1904, by the City, either by Contract or Day Labor.

CITY DOCUMENT NO. 40.

Contract.	Contract.	of 1903, by the City, either
53.55   10-in. pipe, catch-bash drain,   1,626.90   12-in. pipe, catch-bash drain,   1,626.90   12-in. pipe, house drain	4 catch-pasins	ider chapter 383 of the Acts
Boston, Revere Beach and Lynn Rall. [ 1,53,50 12.in, pipe, catch-bash drain.] road and Leverett avenue	Saratoga street and Leyden street	Surface Drains built between February 1, 1903, and February 1, 1904, under chapter 383 of the Acts of 1903, by the City, either
North and south slde	North side	Surface Drains built between

byContract or Day Labor.

Gladstone street	Walley atreet and Selma street	<pre> 560.00 560.00 200.00 </pre>	15-inch pipe. 15-inch pipe. 12-inch pipe.	Contract. { Contract.

# Charlestown.

7 .... Severs built between February 1 1903 and February 1 1001 by the City

	were over a containt is the second of the restant is 1004, by the Child, either of Contract or Day Labor.	H + + 1004, 1	oy the Cuy, ether oy Contra	t or Day Labor.
Arthagton avenue	Arlhagton areaue.       Hamblen street and Somerville line         Bunker Hill street.       Moulton street and Juckson street         Corey areat.       Moulton street and 180 feet north         Private land off Mediord street.       Moulton street and 180 feet north         opposite Ein street.       Moulton street and 180 feet north         Withbrop street.       Moulton street and Annoth         Withbrop street.       Withbrop street.		12-inch pipe	Day labor. Day labor. Rebuilt. Contract. Rebuilt. Day labor. Day labor. Day habor. Contract. Rebuilt.
Severs built between Februa a	Sewers built between February 1, 1903, and February 1, 1904, by the City, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1893, or Special Acts referring thereto.	the City, i ts of 1892, c	n Streets laid out under chap or Special Acts referring there	ter 323 of the Acts of 1891, 10.
Dom attoot				

Bow street	Bow street City square and Washington street	538.87 6-inch pipe, house drain, Contract.	Contract.
llamblen street	Arlington avenue and George street	 252.64 6-Inch pipe, bouse drain	Day labor.
Rutherford avenue	Rutherford avenue Chapman street and Devens street	353.27 6-Inch pipe, house drain	j Contract.

#### STREET DEPARTMENT - SEWER DIVISION. 227

	CN	Charlestown.		
IV	LOCALITY.	Length in	Dimensions and	-
Built in	Between	Feet.	Materials.	Kemarks.
Bunker Hill street	Moulton street and Jackson street Moulton street and 180 feet north Warren street and Adams street	195.61 175.10 570.44	24-inch pipe. 12-inch pipe. 15-inch pipe.	
	West	West Roxbury.		
th st., near Arnold Arboretum, sen street	South st., near Arnold Arboretum,	44.85 102.00	6 ft. $\times$ 5 ft. 9 in., brick. 36 inches $\times$ 36 inches, brick.	6 ft. $\times$ 5 ft. 9 in., brick. 36 inches $\times$ 36 inches, brick. $\left\{ \begin{array}{c} Built under the direction of Stony brook improvement office. \end{array} \right\}$
	U .	Roxbury.		
wning street	Downing street Vernon street and Whittier street	$\left\{\begin{array}{c} 126.00\\ 24.00\end{array}\right.$	6 feet $\times$ 8 feet, brick 8 ft. $\times$ 20 ft., stone reducer	6 feet $\times$ 8 feet, brick   Built under the direction of Stony 8 ft. $\times$ 20 ft., stone reducer

Sewers Abandoned or Rebuilt between February 1, 1903, and February 1, 1904.

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Sewers built between February 1, 1903, and Februarg 1, 1904, by the City, either by Contract or Day Labor.

# STREET DEPARTMENT - SEWER DIVISION.

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Sewers built between February 1, 1903, and February 1, 1904, by Private Parties.

L	LOCALITY.	Length in	Dimensions and	Remarks.
Built in	Between	Feet.	Materials.	
Hollis road Wallingford road. Webster st. and High Rock way	Denton road and Cambridge street Chestnut Hill ave. and existing sewer i Rock way Existing sewer and High Rock way	161.58 504,45 108.93	12-inch pipe. 12-inch pipe. 10-inch pipe.	

# West Roxbury.

Sewers built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.

Contract. Contract.	Day labor. Contract.	Contract. Contract.	Contract. Day labor.	Contract.	Contract. Contract.	Contract. Contract.	Contract. Dav labor.	Day labor. Day labor.	
	12-inch pipe		12-inch pipe	12-inch pipe	12-inch pipe	12-inch pipe	12-inch pipe	12-inch pipe	
395.10 349.01	55.02 $464.90$	519.80 220.33	585.00 113.61	218.45	330.24 529.95	366.00 315.00	519.82 29.55	299.55	
Fresno street and Roslindale avenue Roslindale avenue and 350 feet southeast,	-	Beech street	Washington st. and 700 feet southeast	250 feet south from Cedar street and Washington street	Brook street and Newhurg street	Albano street and Penfield street	Orange street and Hill street	1	
Alder street	Beech street.	Beech street	Beech street	Bellevue avenue	Berry street	Blrch street Birch street	Brook street.	Cedar street.	

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Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract.	Contract, Contra
12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 15-inch pipe. 13-inch pipe.	12 Inch phpe 12 Inch phpe
559.80 481.10 509.51 543.00 343.00 315.25 315.25 397.70 397.70 397.70	414.57 555,157 555,157 555,155 555,155 555,155 555,155 555,155 555,155 555,155 555,155 555,155 555,156 555,166 555,
Bellevue avenue and Washington street, Bellevue avenue and Orange street Orange street and Eastbourne street Bellevue avenue and Beech street Fresho street and Amherst street Alder street and Dudley avenue Roshindale nain sewer and Dudley ave,	200 reet southwest rrom Aoriouk street and Mayo street. Bellevue avenue and Beech street. Kittredke street and Augustus avenue. Kittredke street and 30 feet southeast, Catherine street and 20 feet northerly. Beed street and 20 feet southwest. Brook street and 30 feet southwest. Brook street and Johnswood road. Belgrade avenue and Johnswood road. Belgrade avenue and Johnswood road. Sherwood street and Johnswood road. Broun avenue and Ochberg avenue. Alder street and Bohese street. Ornell street and Bohese street. Brown avenue and Colberg avenue. Alder street and Bohnswood road. Belgrade avenue and Bohnswood road. Belgrade avenue and Bohnswood road. Sherwood street and Southwest. Gornell street and Southwest. Boher street and Souther street. Robert street and South valter street. Robert street and South valter street. Spring street and 250 feet west. Powell street and 250 feet west.
Cornell street Cornell street Cornell street Cypress street Dudley twenne Presno street Fresno street Streets Mecalf and Penfeld Street	Kittredge street

[]

Sewers built between F	between February 1, 1903, and February 1, 1904, by the City, under the direction of Stony Brook Improvement Office.	February 1, 1904, by Improvement Office.	by the City, under th e.	e direction of Stony Brook
	West	West Roxbury.		
F	LOCALITY.	Length in	Dimensions and	-
Built in	Between	Feet.	Materials.	Itemarks.
Green street	Boylston street and Union avenue Green street and Williams street	102.00 48.00	36 inches × 36 inches, brick 24 inches × 42 inches, brick	Day labor. Rebuilding. Day labor.
	Rc	Rox bury.		
Downing street Downing and Whittler streets	Vernon street and Whittier street	20.00 356.00	12-inch iron pipe	Contract. Contract.
	West	West Roxbury.		
Sewers built between Febri as A	Sewers built between February 1, 1903, and February 1, 1904, in Streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	04, in Stree ts of 1892,	sts laid out under chapte or Special Acts referring	r 323 of the Acts of 1891, thereto.
Calder street	Blue Hill avenue and Canterbury street,         Brown avenue and Canterbury street         South street and land of O. C. R. R	80.00 80.00 80.00 80.00 80.00 17.73 80.00 17.55 71.65	10.in. pipe, catch-basin drain, 6 inch pipe, house drain 2 catch-basine	Contract. Contract. Contract.

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ract or Day Labor.	Day labor.   Day labor. Day labor.   Contract.   Day labor.   Day labor.	1903, by the City, either	Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract.
r by Con		ie Acts o	~~~~~
04, by the City, either	24-Inch pipe	ider chapter 383 of th abor.	12.1nch pipe
uary 1, 19	329.85 329.85 1,166.74 120.00 150.15 152.50 405.05 11.69 126.00 18.00 18.00	, 1904, ur or Day L	$\begin{array}{c} 524.05\\ 366.50\\ 524.31\\ 5524.31\\ 356.13\\ 356.13\\ 356.13\\ 356.13\\ 178.45\\ 178.45\\ 133.56\\ 109.73\\ 254.39\\ 254.39\\ 254.39\\ 255.00\\ 330.13\\ 310.22$
Surface Drains built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.	Spring-street brook and N. Y., N. H. & H. R.R. Park conduit and May street Mt. Hope street, northeasterly Arborway and 150 feet south of Ripley street. and across Cohasset street and across Cohasset street and across Cohasset street and across of Nashington street and 100 feet west of Steadman street and 200 feet east of Filandied street	Surface Drains built between February 1, 1903, and February 1, 1904, under chapter 333 of the Acts of 1903, by the City, either by Contract or Day Labor.	Corinth street and Penfeld street Rosilindale branch of Stony brook and Albuo street
Surface Drains built b	Baker street	Surface Drains built betwee	Birch street

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rection of Stony	
under the di	
ie City,	
, 1904, by th	ffice.
ary 1, 1	sment Of
and Febru	ok Improve
1, 1903,	Bro
February	
t between	
<b>Drains</b> buil	
Surface	

		Keinarks.			Rebuilding.		
			Day labor.		Contract.		Contract.
	Dimensions and	Materials.	48.00   15 ft. 9 in. × 20 ft., brick   Day labor.		126.006 feet × 8 feet, brick24.005 ft. × 20 ft., stone reducer		301.00 33 feet 6 inches × 26 feet 4 Contract. 714.00 7 feet, concrete
West Roxbury.	Length in Feet.		48.00	Roxbury.	126.00 24.00	City Proper.	$301.00$ $\left\{ \begin{array}{c} 301.00 \\ 714.00 \\ 714.00 \end{array} \right\}$
West	Locality.	Between	Line of old brook	Ro	Downing street Vernon street and Whittier street	City .	Fenway Huntington avenue and Gatehouse
	Lo	Builtin	Line of old brook		Downing street		Fenway

CITY DOCUMENT NO. 40.

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Culverts built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.

	Stre	EET	Depar	TMEI	NT —	Sewer	Di	VISION		23
act or Day Labor.	Day labor. Contract. Contract. Rebuilt.	rties.		e Parties.			act or Day Labor.	Contract. Work abandoned. Contract. Contract. Part rebuilt. Private. J Rebuilt.	Day labor. Rebuilt.	Dorcbester interceptor. Rebuilt. Day labor. Rebuilt.
og me cuy, enner og comr	$\begin{array}{c} 12 \cdot \operatorname{inch} \ \operatorname{pipe} \\ 24 \cdot \operatorname{inch} \ \operatorname{pipe} \\ 6 \ \mathrm{ft} \times 5 \ \mathrm{ft} \cdot 9 \ \mathrm{in} \cdot \operatorname{prick} \\ \end{array}$	ary 1, 1904, by Private Pu	13-inch pipe. 12-inch pipe. 10-inch pipe.	ebruary 1, 1904, by Private	10-Inch pipe. 12-inch pipe.		y the City, either by Contro	12-inch pipe. 12-inch pipe. 10-inch pipe. 15-inch pipe.	16-inch iron pipe	inches, iron pipe.
+ner 'r hi	52.90 57.30 44.85	and Febru	548.95 1,397.25 1,343.12	903, and F	$\left\{ \begin{array}{c} 1,142.08\\ 192.33 \end{array} \right.$	Dorchester.	y 1, 1904, b	37.40 324.80 398.20 23.55	293.87 293.87 20.00	135.00
outer is out occored real and 1, 1000, and real and 1, 1004, of the Child, earlier of Contract OF Day 1, 2001.	Beech st., near Washington st Canterbury st., near Morton st South st., near Arnold Arboretum,	Severs built between February 1, 1903, and February 1, 1904, by Private Parties.	St. Rose st. and about 665 ft. northerly Ruskin street and Mt. Vernon street Off Prospect avenue	Surface Drains built between February 1, 1903, and February 1, 1904, by Private Parties.	Off Prospect avenue	Dorc	Severs built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.	Moseley street and Button wood street Tonawanda street and Dakota street Eastuan street and Columbia road	Tidewater and Hancock street	Columbia road and Wilder street
000000000000000000000000000000000000000	Beech st., near Washington st Canterbury st., near Morton st South st., near Arnold Arboretum,	Seu	Arborway, traffic road	Surface	Johnswood road		Sewers built betu	Buttonwood court	Freeport street brook	Geneva avenue.

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Sewers built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.

L	Locality.	Length In	Dimensions and	;
Built in	Between	Feet.	Materials.	Kemarks.
Harvard street	Harvard street.       Yaughan street and Abbot street.         Harvard street.       Abbot street and Vales street.         Levant street and Tebroc street.       Geneva avenue and Bovdoin street.         Normandy street.       Street and Howdoin street.         Spender street.       Park street and Howdoin street.         Spender street.       Park street and Howdoin street.         Willow court and private land.       Field court and Massachusetts avenue.	303.15 27.70 27.70 311.80 312.60 325.96 325.96 325.96 100.00 15.00 15.00 15.00 243.15 243.15	303. 1515.inch pipe27. 7012.inch pipe27. 7012.inch pipe28. 006.in. pipe28. 006.in. pipe, bouse drain (new), 12.00.0028. 5512.inch pipe, sewcr.28. 5612.inch pipe, sewcr.29. 0018.inch pipe, sewcr.29. 15. 0018.inch pipe, sewcr.29. 0018.inch pipe20. 15. km18.inch pipe20. 15. km16.inch pipe20. 15. km16.inch pipe20. 15. km16.inch pipe20. 15. km16.inch pipe	Day labor. Rebuilding. Contract. Rebuilding. Contract. Contract. Contract. Contract. Contract.
Sewers built between Febru	Seners built between February 1. 1903. and February 1. 1904. by the City, in Streets laid out under chanter 323 of the Acts of	bu the Cit	n. in Streets laid out und	ler chapter 323 of the Acts

1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.

Contract.	Contract.	Contract.
	228.200 12-110.0 basins	5 manufoles
249.00	228.20 229.78 711.81	692.42 142.20 600.00
Elmont street Faxon street and Waterlow street	Greenhalge street	Roseclair street Dorchester avenue and Boston street
Blmout street	Greenhalge street	Roseclair street

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Jontract. Duplicated from 1902.
264.95     12-inch pipe, sewer       35.24     15-inch pipe, surface drain       35.23     15-inch pipe, surface drain       63.23     10-inch pipe, surface drain       66.23     10-inch pipe, surface drain       6     2       7     2
264.95 35.24 82.58 68.52
Buttonwood st. and N.Y., N.II. & H. R.R.
olumbia road

Surface Drains built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor, under the Separate Systems, Acts of 1903, chapter 383.

	Contract.	Contract.	Contract.	Contract. 110.20 feet 6-inch house	<b>`</b>		0	Day labor.	Contract.	Contract.		Day labor.	Contract.
root cuatres ano.	475.20 12-Inch pipe		20-inch	15-inch	12-inch 12-inch	668.30   12 inch pipe				7.00 12-inch pipe		257.00 13 ft. 6 in. × 8 ft., brick 30.67 5 feet, brick 16.00 24.inch pipe	
representation of 11000 100000000000000000000000000000	Abbot street	Algonquin street that are and Washington street	A the world street $\dots$ $  Than e street and School street \dots   \frac{37}{2}$	Gleuway street and Charlotte street	Bradshaw street and Harvard street 77 School street and Washington street 64	<u></u>	Bowdoin avenue Bowdoin street and Bullard street   27	N.Y., N.H. & H. R.R. and Carson street }	Massachusetts ave. and Boston st 46	Elton street sugamore street and Auckland street   319	Ilancoek street and Clarkson street	Tide-water and Hancock street	Gramplan way Savin IIill avenue and Rockland avenue, 33
	Abbot street	Algonquin street	Athelwold street	Bradshaw street	Bicknell street	Bowdoin avenue	Bowdoin avenue	Crescent-avenue brook	Clapp street	Elton street 5		Freeport-street brook	Gramplan way

STREET DEPARTMENT - SEWER DIVISION.

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**Dorchester.**—Continued. Surface Drains built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor, under the Separate Systems, Acts of 1903, chapter 383.

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It	LOCALITY.	Length in	Dimensions and	There is a constraint.
Built in	Between	Feet.	Materials.	кешаткв.
Chamberlain street	Harvard street and Algonquin street	$\left\{\begin{array}{ccc} 269.90\\ 129.30\\ 14.00\end{array}\right.$	15 inch pipe	Contract. 9 feet 6 inch house drain lowered.
Elmont street	Existing drain and Waterlow street	339.85	10-inch pipe	Contract. 84 feet 6-inch house drahn lowered.
Erle street	McLellan street and Wolcott street	213.75 209.93 530.70	Binch pipe	Contract. 41 feet 6-inch house drain lowered.
Elmo street	Erie street and Blue Hill avenue	25.00	12-Inch pipe	Contract. 17 feet 6-inch house drain lowered.
Erie street	Hewins street and Washington street	$\left\{ \begin{array}{c} 427.60\\ 150.35\\ 60.00 \end{array} \right\}$	24-Inch pipe	Contract.
Elmo street	Erie street easterly	224.55	15-inch pipe	Contract.
Elmo street	Erie street, westerly	242.20 6.00	15-inch pipe	Contract.
Esmond street	Harvard street and Bradshaw street	567.75 35.00	18-inch pipe.	Contract. 26 feet 6-inch house drain lowered.
Fowlar streat	Glenway street and McLellan street	<pre>     353.90     21.00 </pre>	12-inch pipe	Contract.
	Glenway street and Greenwood street	20.00		Contract. 16 feet 6-lnch house drain lowered.
Fenelon street	Merrill street and Washington street	299.50	12-inch pipe	Contract.
Glenwav street	Harlem street and Erie street	802.95 315.85	24-inch pipe	Contract. 11 feet 6-inch house drain lowered.
)	Erle street and Blue Hill avenue	27.00 27.00	12-inch pipe	Contract.

Contract. 8 feet 6 inch house drain lowered.		Contract. 19 feet 6-inch house drain	Contract. 20 feet 6-Inch house drain lowered.	Contract. 83 feet 6-inch house drain	Contract.	Contract. 50 feet 6-inch house drain	Contract. 40 feet 6-inch house drain	Contract.	Contract.	Contract.	Contract. 32 feet 6-inch house drain lowered.	Contract. 54 feet6-inch house drain	Contract. 22 feet 6-inch house drain	Contract. 10 feet 6-inch house drain	Contract. 48 feet 6-inch house drain	Contract. 11 feet 6-inch house drain	Contract. 80 feet 6 inch house drain lowered. Contract.
Is-inch pipe 15-inch pipe 12-inch pipe	12-Inch pipe	12-inch pipe	12-heh pipe	12-inch pipe	3 feet 6 inches, brick 2 feet 9 inches, brick 6-inch house drain (new)	2 feet 9 inches, brick.	24-inch pipe	18-inch pipe	20-inch pipe	15-inch pipe	24-Juch pipe. 18-Juch pipe. 15-Juch pipe. 12-Iuch pipe.	10-Inch pipe	12-inch pipe		12-inch pipe	12-inch pipe	12-inch pipe
$\left\{\begin{array}{c} 159.40 \\ 20.00 \\ 340.33 \\ 12.00 \\ 12.00 \end{array}\right.$	<pre>{ 636.51 7.00</pre>	621.90	864.70	456.95	$\left\{\begin{array}{c} 198.45 \\ 6.00 \\ 36.00 \end{array}\right.$	301.30	279.20	{ 279.00 73.00	<pre>227.00 18.00 5.00</pre>	100.00 200.00	241.55 358.35 176.00 15.00	565.90 565.90 193.83	27.00	279.55	425.00	533.52	$\left\{ \begin{array}{ccc} 900.35\\ 314.20\\ 652.00 \end{array} \right.$
		t		÷		:	:		:	:	:	:	:	e,	:	:	: :
York street and Roxton street	Roxton street and Harvard street	Seaver street and Washington street	Ilurvard street and Bradshaw street	Chamberlain st. and Washington st	Blue Hill avenue and Vaughan street	Vaughan street and Abbot street	Abbot street and Wales street	Wales street and Esmond street	Esmond street and railroad bridge	Kilton street and School street	School street and Chamberlain street	Erie street and Glenarm street	Erie street and Columbia road	Washington street and Bowdoln avenue,	Park street and Athelwold street	Park street and Harvard street	McLellan street Bradshaw street and Blue Hill avenue Nottingham street Bowdoin avenue and Bullard street

Ľ	Locality.	Lonath in	Dimonstrate and	
Built in	Between	Feet.	Materials.	Remarks.
Page street.	Glenway street and McLellan street	201.60 249.20 264.55	12-Inch pipe	Contract.
Park street	Spencer street and Merlin street	225.25 32.60 37.00	2 feet'9 inches, brick 20-inch pipe 12-inch pipe	Contract. Rebuilding.
Seaver street	Erie street and Columbia road	( 01.85 611.85	10-Inch pipe	Contract. 80 feet 6-inch house drain
Spencer street	Park street and Ilarvard street	24.00	12-inch pipe	Contract. 15 feet 18-Inch house sewer lowered.
School street	Washington street and Harvard street	411.50     645.15     90.00	15-inch pipe	Contract. 22 feet 6-Inch house drain lowered.
Thane street	Park street and Harvard street	250.00	2 feet 6 inches, brick.	Contract. 49 feet 6-inch house drain
Wales street	Harvard street and Blue Hill avenue	$\begin{cases} 552.00 \\ 499.50 \end{cases}$	12-inch pipe	Contract. 26 feet 6-inch house drain lowered.
Wolcott street.	Erie street and Columbla road	290.50	12-Inch pipe	Contract. 32 feet 6-luch house drain bowered.
Warner street	Park street and Harvard street	775.70	12-inch pipe	Contract.
Washington street	Erie street and Faxon street	408.30	20-inch pipe	/ Contract. 91 feet 6-inch house drain ( lowered.
nington street	Washington street Eaxon street and Bowdoin street	800.00	24-inch pipe	Contract.

Dorchester. - Concluded.

Surface Drains built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor, under the

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rties.	238 feet 6-inch house drain.	.106	Rebuilt. Rebuilt. Rebuilt. Dorchester intercepting sewer. Abandoned. Rebuilt.	ract or Day Labor.	Contract. Considerable rock. Contract. Considerable rock. Contract. Considerable rock. Contract. Considerable rock. Contract. Considerable rock. Contract. Day labor. Contract. Considerable rock. Contract. Considerable rock.
ary 1, 1904, by Private Pa	12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe.	1, 1903, and February 1, 1	12-inch pipe, sewer. 15-inch pipe, sewer. 12-inch pipe, sewer. 5 feet, brick. 86 inches × 48 inches, brick. 18-inch pipe	er. y the City, either by Cont	12.inch pipe, sewer. 12.inch pipe, sewer.
and Febru	159.75 316.00 493.45 749.22 153.06	ı February	$\left\{\begin{array}{c}135.00\\303.15\\380.85\\34.00\\24.00\\15.00\end{array}\right\}$	South Dorchester. bruary 1, 1904, by (	474.07 189.26 389.25 389.25 389.25 575.31 402.68 697.00 589.00 581.00 631.00 631.00 1,039.02
Sewers built between February 1, 1903, and February 1, 1904, by Private Parties.	Off Howe street	Sewers Abandoned or Rebuilt between February 1, 1903, and February 1, 1904.	Columbia road and Wilder street Blue Hill ave. and Chamberlain st Tide water and Hancock street Park street and Harvard street	South Dorchester. Sewers built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.	Washington street and Medway street. Medway sure talout 190 feet easterly Plitabeth street about 400 feet seatherly Elitabeth street about 400 feet southerly. Metropolitan park reservation and summit southwesterly Tolman street and N.Y., N.H. & H. R.R Tolman street and Eaton street In private land and Lucerne street Sanford street and Manchester street Narragansett street and Gilde street
Ser	Downer street	S	Geneva arenue	Sewers built betwee	Adams street (public)

Continued.	
Dorchester	
South	

Sewers built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.

LOCALITY. Dimensions and		River street and Sauford street.639.9612-inch pipe, sewer.Contract.Constiderable rock.31:3:3:1Tibuth intreet.33:3:3Tibuth pipe, sewer.Day labor.Rebuilt on piles.31:4:1Yan Winkle street and Nicht street.33:4:3Tibuth pipe, sewer.Day labor.Repuilt on piles.30:0:0Tibuth pipe, sewer.Day labor.Supplementary sewer.Day labor.Supplementary sewer.30:0:0Tibuth pipe, sewer.Doutract.Constiderable rock.30:0:0Tibuth pipe, sewer.Day labor.Supplementary sewer.30:0:0Tibuth pipe, sewer.Contract.Constiderable rock.30:0:0Tibuth pipe, sewer.Constiderable rock.30:0:0Tibuth pipe, sewer.Contract.30:0:0Tibuth pipe, sewer.Constiderable rock.30:0:0Tibuth pipe, sewer.Constiderable rock.30:0:0:0Tibuth pipe, sewer.Const
LOCALT	Built in	Cedar street (public)

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Contract. Some rock. Contract. Day labor. Contract. Contract. Considerable rock. Day labor. Day labor. Day labor. Day labor. Day labor.	by the City, eith	Contract. Considerable rock.	Contract. Considerable rock.		Contract. Some rock.	Contract. Considerable rock.
	ts of 1903,	Contract.	Contract.	Day labor.	Contract.	Contract.
<ul> <li>15-inch pipe, surface drain</li> <li>12-inch pipe, surface drain</li> <li>12-inch pipe, surface drain</li> <li>8 catch-bushin</li> <li>8 catch-bushin</li> <li>9 freef binches, circular brick,</li> <li>12-inch pipe, surface drain</li> <li>12-inch bipe, surface drain</li> <li>12-inch bipe, surface drain</li> <li>12-inch bipe, surface drain</li> <li>12-inch bipe, surface drain</li> <li>12-inch pipe, surface drain</li> <li>13-inch pipe, surface drain</li> <li>15-inch pipe, surface drain</li> <li>15-inch pipe, surface drain</li> <li>24-inch pipe, surface drain</li> <li>15-inch pipe, surface drain</li> </ul>	ler chapter 383 of the Aci or.	15-inch pipe, surface drain 10-inch pipe, surface drain 2 catch-hosen	12-inch pipe, surface drain 6-inch pipe, house drains	4-foot circular brick conduit. 3-foot circular brick conduit.	12-inch pipe, surface drain 6-inch pipe, house drains	12-inch pipe, surface drain 6-inch pipe, house drains. lowered
363.65           253.45           253.34           130.87           470.42           470.42           336.63           336.70           707.00           10.73.00           10.50           810.50           951.14	<sup>Febr</sup> uary 1, 1904, under Contract or Day Labor	$\left\{ \begin{array}{c} 877.40\\ 32.00 \end{array} \right\}$	$\left\{\begin{array}{c} 520.54\\ 21.00\end{array}\right\}$	\$ 690.00 20.00	$\left\{ \begin{array}{c} 622.55\\ 16.00 \end{array} \right\}$	460.07 37.00
	ry .	В	:	:		:
Ashmount street and Oak avenue         Ashmount street and Oak avenue         Private         Private         Private         Private         Van Winkle street and Bailey street         Florida street and Adams street         River street and N.Y. N.H. & H. R.R         River street and N.Y. N.H. & H. R.R         Suth of Minot street and N.Y. N.H. & H. R.R         Suth of Minot street and Court street         Suth of Minot street and Court street         Furbidge street and Court street         River street and Court street	Surface Drains built between February 1, 1903, and February 1, 1904, under chapter 383 of the Acts of 1903, by the City, either by Contract or Day Labor.	Richmond st. and N.Y., N.H. & H. R.R.	Chipman street (private) Norfolk street and Torrey street	Private land and Lucerne street	Evans street and Norfolk street	Selden street and Evans street

Surface Drains built between	Surface Drains built between February 1, 1903, and February 1, 1904, under chapter 383 of the Acts of 1903, by the City, either by Contract or Day Labor.	1904, unde r Day Lat	r chapter 383 of the Acts or.	of 1903, b	y the City, either b	2
	LOCALITY.	Length in	Dimensions and		Bomonico	1
Built in	Between	Feet.	Materials.		- control too	1
Edson street (public)	Norfolk street and Milton avenue	1,150.85 38.00	12-inch pipe, surface drain 6-Inch pipe, house drains	Contract.	Contract. Some rock.	
Evans street (public)	Capen street and Thetford avenue	730.43	12-Inch pipe, surface drain 1 catch basin 6-Inch pipe, house drains	Contract.		
Evans street (public)	Nclson street and Capen street	574.00 18.00	lowered	Contract.		
Fuller strect (private) Ferndale street (private)	Capen street and Milton avenue	(649.05 459.52 730.70	10.Wered	) Contract. Contract	Some rock. Some rock	
Kilton street (private)	Wheatland avenue and Park street	20.00	12-inch pipe, surface drain 6-inch pipe, house drains	Contract.		
Maxwell street (public)	Capen street and Milton avenue	$\begin{pmatrix} 470.44\\ 29.00 \end{pmatrix}$	lowered	Contract.		
Maxwell street (public)	Nelson street and Capen street		lowered	Contract.	Some rock.	
Milton avenue (public)	Norfolk street and Edson street	36.00	6-inch pipe, house drains	Contract.		
Millet street (public) Morton street (public) Mountain avenue (private)	Wheatland avenue and Park street West Selden street and Evans street Ballou avenue about 720 feet north	600.60 480.50 348.00	12-Inch pipe, surface drain 15-inch pipe, surface drain 15-inch pipe, surface drain 10-inch pipe, surface drain	Contract. Contract. Contract.	Considerable rock. Some rock.	
Nelson street (public)	Selden street and Norfolk street	267.00 241.40 18.20	15-inch pipe, surface drain 12-inch pipe, surface drain 10-inch pipe, surface drain	Contract.	Some rock.	
Nelson street (public)	Evans street and Norfolk street	270.00	4 catch basins	Contract.	Considerable rock.	

South Dorchester. - Concluded.

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Some rock.		Considerable rock.	Some rock.				Some rock.	Some rock.		
Contract. Some rock.	Contract.	Contract. Contract.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract. Some rock.	Contract.	Contract.
15-inch pipe, surface drah 10-inch pipe, surface drain 6-inch pipe, house drains	12-inch pipe, surface drain 24-inch pipe, surface drain 6-inch pipe, house drains.	15-inch pipe, surface drain 12-inch pipe, surface drain	6-inch pipe, surrace drains	12-inch pipe, surface drain 6-inch pipe, house drains	12-inch pipe, surface drain 6-inch pipe, house drains	allowered	12-inch pipe, surface drain 6-inch pipe, house drains	12-inch pipe, surface drain	lowered	Jowered
1,191.00 25.00 50.00	627.15 173.05 12.00	703.55	35.00	$582.90 \\ 6.00$	1,130.50 6.00	457.32 7.00	1,296.15 125.00	1,001.19 18.00	600.35 41.00	769.45 13.00
Norfolk street (public) Lauriat avenue and Stanton street	Talbot avenue and Washington street	valle street	on avenue }	a street	is street	street	s street	,000 ft. westerly,	tland avenue	ar avenue
Lauriat avenue ar	Northern avenue (private) Talhot avenue and V	River street and Rockville street Whittield street and Washington street.	Capen street and Milton avenue.	Selden street (public) Nelson street and Capen street	stanton street (public)	Sturbridge street (public) River street and Sanford street	Norfolk street and Evans street	Walk Hill street (public) Blue Hill avenue, about 1,000 ft, westerly,	Whitfield street (private) Talbot arenue and Wheatland avenue	Whitman street (private) Norfolk street and Dunbar avenue

12-inch pipe, sewer.

336.00

Alpha road (private)...... Waldeck street and Park street. .....

Contract or Day Labor.		Remarks.	Contract. Contract. Day labor. Rebuilding. Contract. Part rebuilt. I feet 6-inch house drain. Contract. Contract. Contract. Day labor. Rebuilding.	Severs built between February 1, 1903, and February 1, 1904, by the City, in streets laid out under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	Day labor. Rebuilding.	Rebuilt.
, by the City, either by	Dimensions and	Materials.	12-inch pipe. 13-inch pipe. 13-inch pipe. 13-inch pipe. 13-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 12-inch pipe. 2 ft. 6 in. × 3 ft. 9 in. 18-inch pipe.	in streets laid out un or Special Acts referre	Is incl. pipe	12-inch pipe
ary 1, 1904.	Larath in	Feet.	227.65 45.66 45.66 45.60 486.00 486.00 247.75 544.75 245.00 12.00 12.00	y the City, sts of 1892,	179.20 181.00 20.00	200.45 39.00 249.00
Severs built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.	LOCALITY.	Between	Warren street and Burton avenue Columbus avenue and Centre street Washington street and Walnut avenue Highland Park st. and Beach Glen st Off Walnut avenue Columbus avenue and R.k. bridge Moreland street and Rockville Park Intervale street and Brunswick street	wry 1, 1903, and February 1, 1904, hy the City, in <b>s</b> treets laid out under chapte as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	Davenport street Tremout street and Columbus avenue	Dunreath street Aspen street and Warren street
Severs built be	Ic	Built in	Copeland street	Sewers built between Februar as	Davenport street.	Dunreath street

Roxbury. -- Continued.

CITY DOCUMENT NO. 40.

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Contract. Contract.	) Contract. 6-foot house drain low- ered. 5 Contract. 30 feet 6-inch house	<ul> <li>drain lowered.</li> <li>Contract. 48 feet 6 inch pipe, house drain lowered.</li> <li>Contract. 14 feet 6 inch pipe, house</li> </ul>	drain lowered. Contract. 52 feet 6-inch house Contract.	Cuntract. Sed feet 6-Inch house drain lowered. Contract.	Contract. Contract. 30 feet 6-inch house drain lowered. Contract. Day labor.	
Ist. 00         15-Inch         11/10e           265, 10         12-Inch         10/10e           267, 60         18-Inch         10/10e		142-00 15-100 1940 148.20 15-100 1940 225.00 12-1061 1940 235.00 12-1061 1940 239.00 15-1061 1940 259.00 15-1061 1940	24.00 10-Inch pipe. 576.30 18-inch pipe. 647.60 13-inch pipe. 29.00 10-inch pipe.		200.00 12-1000 http: 22.00 10-10-10 http: 290.00 15-10-10 http: 393.00 21-20-10 http: 313.00 21-10-10 http: 313.00 24-10-0 http: 312.00 13-10-0 http: 313.00	574.40 12.inch pipe. 249.55 15.inch pipe. 249.55 15.inch pipe. 249.56 12.inch pipe. 260.00 0.inch pipe. 37.40 10.inch pipe. 37.40 15.inch pipe. 102.00 S.inch pipe.
Blue Hill arenne and Gaston street 200 Humboldt arenue and Elm Hill arenue, 150 507	Uale street and Rockland street 410 Wannbock street and Wyondow street 43		~		Crawford street and Humboldt avenue 202 Walnut avenue and Humboldt avenue 220 905 Homestead street and Hutchings street Blue IIII avenue and Warren street 512 Wihtler street and Rugeles street	
Otistleld street	Rockland avenue Da Walieno stroot				I I omestead street	Cobden street       Washington street and Wahnut avenue,         If utchings street       Humboldt avenue and Harold street         Cedar street       Columbus avenue and Centre street

Surface Drains built betwee	Surface Drains built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor, under the Surface Drains built between \$33.	1, 1904, b ct of 1903,	y the City, either by Contr chapter 383.	act or Day Labor, under the
Tr	LOCALITY.	Leneth in	Dimensions and	
Built in	Between	Feet.	Materials.	Kemarks.
Femer street	Washington street and Wahut avenue, Off Wahut avenue Columbus avenue and R.R. bridge Intervale street and Brunswick street	$\left\{\begin{array}{c} 90.52\\ 15.00\\ 5.00\\ 10.00\end{array}\right.$	4 feet brick surface drain 10-in. pipe, catch-basin drain. 1 catch basin 10-in. pipe, catch-basin drain. 12-in. pipe, catch-basin drain.	Day labor. Contract. Contract. Day labor.
Q	Severs Abandoned or Rehnilt between February 1, 1903, and February 1, $1904$ .	February	1, 1903, and February 1, 15	.to
Cedar street. Copeland street. Davemport street. Dunreath street. Fenner street. Fort avenue. Station street. Warren street.	Columbus avenue and Centre street Warren street and Burton avenue Tremont street and Warren street Aspen street and Warren street Highland Park st. and Beech Glon st Oolumbus avenue and railynd bridge Moreland street and Brunswick street Intervale street and Brunswick street	$\left\{\begin{array}{c} 20,00\\ 15,00\\ 349,20\\ 56,00\\ 56,00\\ 14,00\\ 135,00\\ 33,00\\ \end{array}\right.$	10-inch pipe.         15-inch pipe.         12-inch pipe.         12-inch pipe.         12-inch pipe.         12-inch pipe.         24 inches × 31 inches, pipe.         24 inches × 31 inches, pirck.         12-inch pipe.         15-inch pipe.         16-inches × 20 inches, brick.         16-inches × 20 inches, brick.         16-inches × 20 inches, brick.         16-inch pipe.         16-inch pipe.	Rebuilt. A bandoned. Rebuilt. Rebuilt. Rebuilt. Rebuilt. Private. Rebuilt. Rebuilt. Rebuilt. Rebuilt.
Sewers built betwee	Severs built between February 1, 1903, and February 1, 1904, by the City, either by Contract or Day Labor.	1, 1904,	by the City, either by Con	tract or Day Labor.
Fisher avenue	Parker street and Bucknam street Ducknam street and Hayden street	$\left\{\begin{array}{cc}288.60\\37.03\\826.00\\517.62\end{array}\right.$	24-inch pipe, sewer 18.inch pipe, sewer 12.inch pipe, sewer 12.inch pipe, sewer	<pre>{ Day labor. Contract.</pre>

Roxbury. -- Continued.

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- Day l <b>a</b> bor. Contract.	Acts of 1891, as Amended by	Day labor.
<ul> <li>3 ft. 9. in. diam., brick sewer.</li> <li>3 fted 6 inches × 3 feet 8; inches 4 drain, brick sewer.</li> <li>18. inol pipe, sewer.</li> <li>19. inol pipe, sewer.</li> <li>19. inol pipe, sewer.</li> <li>19. inch pipe, sewer.</li> <li>6. inch pipe, sewer.</li> </ul>	, under chapter 323 of the . Acts referring thereto.	30 hiches × 36 inches, brick, house sever
Caldwell street and Prentiss street 680.81 680.81 15.50 230.00 231.04 12.00 12.00	Severs built between February 1, 1903, and February 1, 1904, by the City, under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	14.94         647.90         326.31         27.00         179.15         77.00         179.16         179.16         179.16         179.16         179.16         179.16         179.16         179.16         179.16         179.16         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.15         171.16         171.17         171.17         171.16         171.17         171.16         171.17         171.16         172.17         173.17         174.17         175.17         175.17         176.10         177.17         171.16
Halleck street	Severs built between Febru	Jereey street

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Severs built between February 1, 1903, and February 1, 1904, by the City, under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.

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	Remarks.		Contract. Contract		t rebulldin
	I	Day labor.	Contract. Rebuilding. Rebuilding. Jabor. Contract.	, chapter 383	Contract, part rebuilding. Contract.
Dimensions and	Materials.	30 inches × 36 inches, brick, house sever	9 catch basins	104, under the Acts of 1903.	12-inch pipe, sewer 15-inch pipe, sewer 12-inch pipe, sewer 10-inch pipe, sewer
Lenoth in	Feet.	$\begin{array}{c} \textbf{1,463.45}\\ \textbf{24.25}\\ \textbf{62.25}\\ \textbf{62.25}\\ \textbf{62.26}\\ \textbf{870.00}\\ \textbf{289.50}\\ \textbf{1,362.49}\\ \textbf{1,362.49}\\ \textbf{260.20}\\ \textbf{260.20}\end{array}$	1,214,28 1,223,08 1,223,08 1,200,26 1,99,14 1,99,14 560,00 260,00 284,00 224,00 224,00	ruary 1, 15	407.00 20.00 192.10 85.00
LOCALITY.	Between	Audubon road and Audubon road	Blandford street and Lawton street Blandford street and Lawton street Commonwealth arenue and B. & A. R.R. Calumet street and Hillaide street	Sewers built between February 1, 1903, and February 1, 1904, under the Acts of 1903, chapter 333.	Whitney street and Huntington avenue.
T	. Built in	Queenshury street	Cummington street (including) outlet in Lawton street) Cummington street Blandford street	Sewers buil	Smith street.

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. Huntington avenue and 500 feet casterly,
Longwood avenuc

12-inch pipe, sewer. 345.88

en pipe, Sontract.

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Contract.	Contract.	Contract.	Contract.	Contract.
15-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain,	2 catch-basins	18-in. pipe, catch-basin drain, 15-in. pipe, catch-basin drain, 3 catch-basin drain, Contract.	15-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 2 catch busit	
20.33 186.75 51.33	50.00	675.52 269.50	625.87	(193.50 288.65 34.00
Worthington st. and Wigglesworth st	Gay Head street Itound Hill street and Centre street	Fisher avenue	Fisher avenue	
Longwood avenue	Gay Head street	flsher avenue	Flsher avenue	Old Heath and Parker streets to {

Surface Drains built between February 1, 1908, and February 1, 1904, under chapter 383 of the Acts of 1903.

,		222.68	24-in. pipe, catch-basin drain.	
Longwood avenue	Longwood avenue Vila street and Wigglesworth street	220.88	18-in. pipe, catch basin drain,	{ Contract.
Wigglesworth street	Wigglesworth street Longwood ave. and Huntington ave	445.71	10-in. pipe, catch-busin drain,	Contract.
Bellevue street	Brookline avenue and Bernier street	2339.02	12-in. pipe, catch-basin drain, } Contract.	Contract.
Bernier and Plymouth streets	Bernier and Plymouth streets	666.45	10-1n. pipe, catch-basin drain.] ) 12-in. pipe, catch-basin drain,	) Contract.
Bellevue street	Bernier street and Austin street		12-in. pipe, catch-basin drain, { 10-in. pipe. catch-basin drain, {	{ Contract.
Huntington avenue	Smith street and Tremont street	450.00 {	3 feet, circular brick surface	Day labor.

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Surface Drains built between February 1, 1903, and February 1, 1904, under chapter 383 of the Acts of 1903.

Remerits		Contract.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract.	Contract.
Dimensions and	Materials.	5-in. pipe, catch-básin drain, 2-in. pipe, catch-básin drain, 0 in catch-básin drain, 8 con				<u></u>	<u> </u>	2-in. pipe, catch-basin drain, { Con 0-in. pipe, catch-basin drain, {	、 ·	2-in. pipe, catch-basin drain, Con 0-in. pipe, catch-basin drain, Con	~	(0-in. pipe, catch-basin drain, ) 2-in. pipe, catch-basin drain, ? 0-in. pipe, catch-basin drain, ? Con	_ت_	4 catch-basins		~
Length in	Feet.	$\left\{\begin{array}{c c} 192.17 \\ 642.25 \\ 642.25 \\ 1 \\ 642.25 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $				467.50		{\} 463.79 1 6.00 1		$\left  \begin{array}{c c} 257.54 & 12 \\ 4.00 & 10 \end{array} \right $	507.60 1 251.25 1		855.00	340.19		255.59
LOCALITY.	Between	Ward street and Smith street	Parker street and Phillips street	Tremont street and Conant street	Parker Hill avenue and Sachem street.	Batavia street	Huntington avenue and Smith street	Hemenway st. and Massachusetts ave	Longwood ave. and Huntington ave	Conant street and Smith street	Tremont street and Calumet street	Day street and 440 feet westerly	Brookline avenue and Autumn street	Parker street and 330 feet westerly	Phillips street and 280 feet easterly	Whitney street and Worthington street
IO	Builtin	lluntington avenue	Longwood avenue	Phillips street	Hillside street	Batavia street	Worthington street		Worthington street			Evergreen street	Longwood avenue		Ward street	Smith street.

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Contract.	Contract.	Contruet.	Contract.	Contract. Contract.	Contract.	Contract.	Contract. Contract.	<pre>{ Contract.</pre>	Contract.	Contract.	Contract.	, Contract. Contract.	Contract.	Contract.	Contract.	) Contract.	Day tabor,	rties.	Release.
18-in. pipe, catch-basin drain, 15-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain,	10-111. pipe, catch-basin drain, 18-in. pipe, catch-basin drain, 15-in. pipe, catch-basin drain, 3 feet diameter, brick surface	drain. 12-in. pipe, catch-basin drain. 20-in. nine. catch-basin drain.	16-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain.	12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain,	30 inches diameter, brick sur- face drain	15-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain,	15.in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain,	12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain.	12-in. pipe, catch-basin drain, 15-in nine eatch teasin drain,	12-in. pipe, catch-basin drain, 10 in mine catch basin drain,	12-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain,	10-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain,	15-in, pipe, catch-basin drain, 12-in, nine, catch-basin drain,	12-in. pipe, catch-basin drain,	10-in. Pipe, catch-basin drain,	e-in. Pipe, catch-basin drain, 10-in. Pipe, catch-basin drain,	18-in. pipe, catch-basin drain, 15-in. pipe, catch-basin drain,	ary 1, 1904, by Private Pa	12-inch pipe, sewer
288.00 41.00	554.35 854.35 8440.00 850.00 €	461.61	22.50	391.20 140.62	20.00	257.91	244.50 463.44	590.65	529.42	335.46	871.80	195.60	274.60	817.00	700.00	422.00	3.18	and Febru	426.50 605.00
	Il untington ave, and 750 ft, southerly Worthington street and Wigglesworth	street, across Wigglesworth street Smith street and Tremont street	Phillips street and Huntington avenue.	Smith street and Premont street	Westland avenue and Boyiston street	Kempton street and Huntington avenue,	Kempton street southwesterly	Parker street and Philips street	St. Alphonsus street and Phillips street,	Hemenway st. and Massachusetts ave		Longwood avenue and Conant street	Vila street and Brookline avenue	Brookline avenue and Austin street	Huntington avenue and Hillside street.		Huntington ave. and 750 feet southerly	Severs built between February 1, 1903, and February 1, 1904, by Private Parties.	Arklow street and Ulmer street
Phillips st. and Longwood ave	Parker II avenue	Wigglesworth street	Ward street	Faxon street	Hemenway street	Kenwood road	Vila-street extension		Conant street	Aslor street	Sunset street and Eldora street	Phillips street	Longwood avenue.	Bellevue street and Francis street,	Wait street	Autumn street	Parker Hill avenue	Ser	Posen street

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F	LOCALITY.	Length in	Dimensions and		
Built in	Between	Feet.	Materials.		Kenjarks.
South street. Purchase street. Tyler street. Hale st. (formerly Cresent pl.). Galnsborough street. North street. North street. Albion street. Albion street. Albion street. Court square, west side. Fleet and North street. Commercial street. Fleet and North street. Counserval street. Fleet and North street. Fleet such North street. Causeway street. Causeway street.	Kneeland street and Beach street At Gridley street	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<ul> <li>Is Inch pipe, sewer.</li> <li>Is Inch pipe, sewer.</li> <li>Is Inch pipe, sewer.</li> <li>30 In. × 18 in. brick sewer.</li> <li>30 In. × 18 in. brick sewer.</li> <li>12 inch pipe, sewer.</li> <li>12 inch pipe, sewer.</li> <li>31 inch pipe, sewer.</li> <li>32 inch pipe, house sewer.</li> <li>32 inch pipe, house sewer.</li> <li>32 inch pipe, sewer.</li> <li>32 inch pipe, sewer.</li> <li>33 inches × 36 inches, brick, house sewer.</li> <li>33 inches × 36 inches, brick.</li> <li>36 inch pipe, chameys.</li> <li>37 inch pipe, sewer.</li> <li>32 inch pipe, sewer.</li> <li>32 inch pipe, sewer.</li> <li>33 inches sewer.</li> <li>34 inch pipe, sewer.</li> <li>30 inche sewer.</li> <li>31 inch pipe, sewer.</li> <li>32 inch pipe, sewer.</li> <li>34 inch pipe, sewer.</li> <li>34 inch pipe, sewer.</li> </ul>	<ul> <li>Day labor. Rebuildi</li> <li>Day labor. Rebuildi</li> <li>Day labor. Rebuildi</li> <li>Contract.</li> <li>Contract.</li> <li>Day labor. Rebuildi</li> <li>Day labor. Rebuildi</li> <li>Day labor. Rebuildi</li> <li>Contract.</li> <li>C</li></ul>	Day labor. Rebuilding. Day labor. Rebuilding. Day labor. Rebuilding. Contract. Contract. Day labor. Excavation only. Day labor. Rebuilding. Day labor. Rebuilding. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Contract. Day labor. Part rebuilding.
Severs built between Februa	Severs built between February 1, 1903, and February 1, 1904, by the City, under chapter 323 of the Acts of 1891, as Amended by chapter 418 of the Acts of 1892, or Special Acts referring thereto.	by the City 2, or Specie	, under chapter 323 of the il Acts referring thereto.	Acts of 18	91, as Amended b

CITY DOCUMENT NO. 40.

Contract.

160.69 22.00 198.00 18.00

Hale street extended to South { Crescent place and South Margin street,

Contract.	Day labor.	Jontract or Day Labor.	Day labor. Contract. Contract. Special Act, 1900, chapter 139. Contract.	Parties.	Schoolhouse Department, Release, Transit Commissioners, Rebuild- ing, Six catch-basins removed.	Transit Commissioners. Rebuild.
12-In. pipe, catch-basha drain, 10-In. pipe, catch-basia drain, 10-in. pipe, catch-basia drain, 10-in. pipe, catch-basia drain, 10-Inch from pipe, catch-basia		904, by the City, either by C	<ul> <li>00.in. pipe, catch basin drain,</li> <li>20.in. pipe, catch basin drain,</li> <li>2 exterbasins.</li> <li>10.in. pipe, catch basin drain,</li> <li>4 catch basins.</li> <li>1 drop inter.</li> <li>10.in. pipe, catch basin drain,</li> </ul>	tary 1, 1904, by Private 1	12-inch pipe, sewer 2 feet 2 Inches × 3 feet 3 inches concrete sewer 15-inch pipe, sewer 12-inch pipe, sewer	8 catch Jatsins
Off Camden street         139.20           Off Vaplar street         20	174.81         174.81           122.50         122.50           05.20         02.00           05.00         02.00           05.55, 80         255, 80	Drains huilt between February 1, 1903, and February 1, 1904, by the City, either by Contruct or Day Labor.	Kneeland street and Beach street Hurthngton avenue and N.Y., N.H. & H. R.R. Yarmouth street, and W. Newton street, 99.29	Severs built between February 1, 1903, and February 1, 1904, by Private Parties.	North Bennet street and Theston street,     128.79       55.80     55.80       india street and Washington street,     83.00	Washington street and Tremont street.
Public alley 804	Dilvorth street	Surface Drains buil	Tyler street	Sewer	Eliot school yard	Court street

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Sewers built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

L	LOCALITY.	Length in	Dimensions and	Demonstra
Built in	Between	Feet.	Materials.	IVEIIIAI PS.
A street	West First street and Congress street	319.00 410.63 925.50	24-inch pipe	Day labor. Rebuilding separate systems of druinage.
Columbia road	Board of Survey street No. 1746 and Preble street		$3 $ fr. $\times 3 $ fr. $2 $ in., brick, in- cluding tide-gate chamber. $2 $ fr. 6 in. $\times 2 $ fr. 7 in., brick. 13  inch pipe.	Day labor. (Chapter 323.)
D street.	Dorchester avenue and Seventh street	245.10 245.10 345.10 37.70 83.77 83.77	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \end{array}\\ \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \end{array}\\ \begin{array}{c} \end{array}\\ \end{array}\\ \end{array}\\ \begin{array}{c} \end{array}\\ \end{array}\\ \end{array}\\ \end{array}\\ \end{array}\\ \begin{array}{c} \end{array}\\ $	Day lábor. Rebuilding sewerage works.
Dorchester street	Dorchester ave. and East Bighth st		15-inch pipe	Day labor. Dorchester street, spe-
Dorchester street	Dorchester ave. and East Eighth st Columbia road and Washington avenue, Columbia road and tide-water		12-inch pipe	Contract. Dorchester street, spe- cial draft. Bay labor. Sewerage works. Day labor. Rebuilding sewerage ( works.

Surface Drains built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

A street	West First street and Congress street,	160.00 79.00	160.00 4 feet 6 inches	Day labor.	Separate systems of
Columbia road	Street No.1746 to Preble street	$\left\{\begin{array}{ccc c} 14.68 & 1\\ 53.00 & 1\\ 35.24 & 1\end{array}\right\}$	10-inch pipe	Day labor.	(Chapter 323.)

10-in. pipe, catch-basin drain,       Pay labor. Dorchester street, spe- l catch-basin	1 1, 1904, and February 1, 1905.	$ \begin{array}{c c} \textbf{2 feet} \times \textbf{2 feet}, \text{brick}, \dots, \\ \textbf{35.inch pipe}, \textbf{36.incher}, \textbf{37.inch}, \textbf{36.incher}, \textbf{37.inc}, \textbf{36.incher}, \textbf{37.inc}, \textbf{36.incher}, \textbf{36.incher}, \textbf{36.incher}, \textbf{37.inc}, \textbf{36.incher}, \textbf{36.incher}, \textbf{37.inc}, \textbf{36.incher}, \textbf{37.inc}, \textbf{36.incher}, \textbf{37.inc}, \textbf{36.incher}, \textbf{36.incher}, \textbf{37.inc}, \textbf{36.incher}, 36.incher$	by the City, either by Contract or Day Labor.	3 feet 3 inches × 4 feet 6 inches, brick
Dorchester street	Sewers Rebuilt or Abandoned between February 1, 1904, and February 1, 1905.	West First street and Congress street	East Boston. Sewers built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.	Metropolitan pumping station and Kneller street (East Boston low level), Kneller street (East Boston low level), Saratoga street and Leyden street       1,172.88         Boston       Saratoga street and Leyden street       65.26         Prescott street and Bremen street       120.59         Prescott street and Bremen street       224.00         Bremen street and Orleans street       240.00         Bremen street and Orleans street       24.00         Bremen street and Orleans street       24.00         Bremen street and Cleveland street       24.00         Bremen street and Cleveland street       24.00
Dorchester street		A street Columbia road D street Dorchester street Vale street Columbia road	Severs built	Addison street

Sewers built bet	Severs built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.	'y 1, 1905, l	y the City, either by Contr	ract or Day	Labor.
Ι	LOCALITY.	Length in	Dimensions and		
Built in	Between	Feet.	Materials.		Kemarks.
Private land (East Boston low level sewer)	Private land (East Boston low)       Bennington street and Butler avenue         level sewer).       Border street and tide.water (Lexington)         Private land.       street overflow).		258.69       3 feet, circular brick       { Contract. Construction         243.73       3 feet, circular wood       Bay labor. Sewerage w         19.30       3 feet, circular brick       Day labor. Sewerage w	Contract. Ways. Day labor.	Contract. Construction ways. Day labor. Sewerage w

East Boston. -- Concluded.

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C	CITY DO	CUMENT	N	lo.	40.
	Contract. Construction of high- ways. Day labor. Sewerage works.	or Day Labor.	Contract. Construction of high- wave.	Contract. Separate systems of drainage.	tet. Sewerage works.
		ontract			Contract.
Manual 1945.	<ul> <li>258.69 3 feet, circular brick</li> <li>243.73 3 feet, circular brick</li> <li>19.90 3 feet, circular brick</li> </ul>	05, hy the City, either by C	999.24 12-inch pipe	Jō-inch pipe	5 feet $\times$ 5 feet, brick
T CCI.	258.69 243.73 19.90	ruary 1, 19	999.24	213.26	72.30
Between	Bennington street and Butler avenue Border street and tide-water (Lexington street overflow)	Surface Drains built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.	South side Saratoga st. and Ashley ave	Walley street and Selma street	
Built in	Private land (East Boston low) level sewer)	Surface Drains built	Bennington street	Gladstone street	Private land across B. & M. K. K. S. about 1,300 feet north of Addi- son street.

Sewers built between February 1, 1904, and February 1, 1905, by Private Parties.

Frankfort street	lxisting sewer and 270 fect east	265.32	12-inch pipe.	

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Chelsea street	Chelsea street	154.38 100.00 207.38 207.38 43.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 10.00	3 ft. × 3 feet 24 inches, brick, 15-inch pipe
Surface Drains built b	oetween February 1, 1904, and Febr	.nary 1, 19	Surface Drains built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.
Front street	Existing sewer and Warren avenue		363.03 12-inch pipe Contract. Sewerage works.
	BT	Brighton.	
Severs built betwee	een Fehruary 1, 1904, and Fehruar	y 1, 1905,	Severs built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.
Brooks street	Metropolitan sewer and Parkman st 350 feet east of Commonwealth areaue and 250 feet easterly	518.99 248.85 212.00	<ul> <li>518.39 [12-inch pipe</li></ul>

Contract. Sewerage works. Day labor. Sewerage works. 12-inch pipe......  $\begin{array}{c}
311.78 \\
476.83 \\
25.00
\end{array}$ Parkman street.......Brooks street and 250 feet northwest.... Bigelow street and Atkins street...... Corey road and Woodstock avenue..... Stratton street.....

L	LOCALITY.	Length in	Dimensions and	2	Panarka	
Built in	Between	Feet.	Materials.	4	CHIMI PS.	
Brooks street	Brooks street Parkman street and B. & A. R.R	347.64	347.64 12-inch plpe	Day labor. Separate systems of drainage.	Separate s	ystems
Dunboy street	Bigelow street and Hardwick street	175.65	175.65 12-inch pipe	Day labor.	Separate systems of	ystems
Foster street	Rogers park and Mt. Vernon street	330.58	15-inch pipe	Day labor.	Separate	systems
Hardwick street	Bigelow street and Dunboy street	746.40	12-inch pipe	Contract. Separate systems of drainage.	eparate s	rstems
Nonantum street	Nonantum street Oak square and Newton line	761.35 663.34 201.60	24 inch pipe	Contract. Separate systems of drainage.	eparate s	rstems
Newton street	335 feet northwest of Brooks street and Charlesview street		20-inch pipe	Contract. Separate systems drainage.	separate s	ystems of
Newton street	Brooks street and 325 feet west	335.20	12-inch pipe	Contract. S drainage.	Separate systems	ystems
Private land	Parkman street and Newton street	303.73	20-inch pipe	Day labor.	Separate a	ystems
Private land	Shepard street and Shannon street	$\left\{ \begin{array}{c} 159.87\\ 8.63 \end{array} \right\}$	24-inch pipe	Day labor. Separate systems of drainage.	Separate a	ystems

10-inch pipe.

199.75

Brighton. -- Concluded.

Surface Drains hull between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

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Severs hull between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

Abbott street Arborway (traffic road) Blirch street	Willow street and 190 feet east	190.60 556.85 285.00 29.51	12-inch pipe	Contract. Sewerage works. Contract. Sewerage works. Contract. Sewerage works. Day labor.
Belgrade avenue (Section 1)	Belgrade avenue (Section 1) Corinth street and Aldrich street	3,909.41 184.28 4,244.05 201.41 39.50	15-inclu pipe, surface drain 12-inclu pipe, surface drain 12-inclu pipe, surface drain 7 feet × 4 feet, brick and	Contract. Highways, Making of.
Belgrade avenue (Section 2)	Aldrich street and Anawan avenue	84.03 750.44 500.70	6 feet 6 inches × 5 feet, con- 6 feet 6 inches × 5 feet, con- rette culvert. 18.inch pipe, surface drain	Day labor. Separate systems of drainage.
Beech street	100 feet northwest of Kittredge street and 860 feet southenst of Kittredge st Fresno street and Bellevue arenue	68.50 359.41 633.91 767.30	12-inch pipe, surface drain ] 12-inch pipe	) Contract. Sewerage works. Contract. Sewerage works.
IIyde Park avenue (Section 1)	IIyde Park avenue (Section 1) Walk Ifill street and Larch place	1,235,25 1,691.86 4,047.69 1,970.75 1,970.75	abouted pipe, surface drain Banch pipe, surface drain 15.inch pipe, surface drain 12.inch pipe, surface drain 10.in. pipe, tetch-bash drain 5.inch pipe, totch-bash drain	) Contract. Ilighways, Making of.
Ifyde Park avenue (Section 2) Larch place and Ashland street.	Larch place and Ashland street	3,962.00 1,690.00	tech prices × 9 rect, price     tech pipe      12-hed pipe, surface drain      te hed bipe, surface drain	Day labor. Highways, Making of.
Ilouston, Metcalf and Penfield sts. La dicrarge street Landseer street Montello street Noart street	Roshindale main sever, Belgrade ave Conre street and Landsser street La Grange st, and 5% fett nottheast Belgrade avenue and Colberg avenue Writer street and Is fedt west	, 3,00,00 278,94 1,049,42 581,15 835,33 835,33 184,76 298,00	12-Inch pipe, surface unan- 12-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe	Contract. Sewerage works. Day lubor. Sewerage works. Day lubor. Sewerage works. Contract. Sewerage works. Contract. Sewerage works.

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Sewers built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

Т	· LOCALITY.	Length in	Dimensions and	Bamanite
Built in	Between	Feet.	Materials.	1001101 120
Private land	Private land	327.62 323.00	12-inch pipe	Contract. Highways, making of. ) Day labor. Separate systems of
Rowe street	Rowe street Asiand street and Seymour street	225.42 225.42 25.45 25.45	12-inch pipe	Contract. Highways, Making of.
Seymour street	Seymour streetavenue Canterbury street and Brown avenue	720.10 720.10 720.10 86.37	P2-inch pipe. 18-inch pipe. 18-in. pipe, catch-basin drain, 12-in. pipe, catch-basin drain, 10-in. pipe, catch-basin drain, 6-in-dh house draine,	Contract. Highways, Making of.
Talbot avenue (Section 1)	Talbot avenue (Section 1)	1,444.66	4 feet 3 inches, circular brick,	Contract. Separate systems of drainage.
Talbot avenue (Section 2)	Talbot avenue (Section 2) Mt. Hope street and Canterbury street.	1,951.59	4 feet 3 inches, circular brick,	1,951.59 4 feet 3 inches, circular brick, Contract. Separate systems of drainage.
Talbot avenue (Section 3)	Talbot avenue (Section 3) Canterbury street and Walk Hill street	1,067.75	4 feet 3 inches, circular brick,	Contract. Separate systems of drainage.
Talbot avenue (Section 4)	Talbot avenue (Section 4) Walk IIill street and 1825 fect east	1,825.00	1,825.00 4 feet 3 inches, circular brick,	Contract. Separate systems of drainage.

Surface drains built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

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Ashland street	Washington and Florence streets	655.05	655.05 12-inch pipe	Contract.	Contract. Separate systems of drainage.	systems	of
Corey street	Vermont street and 100 feet southerly		99.75   18-inch pipe   Contract. Sewerage works.	Contract.	Sewerage '	vorks.	
Glen road {	250 feet east from Washington street and Forest Hills street	5	0.00 18-inch pipe	. Contract. Sewerage works.	Sewerage '	vorks.	

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<ul> <li>Day Inhor, Separate systems of draininge. Contract. Separate systems of drainage.</li> <li>Contract. Separate systems of drainage.</li> <li>Contract. Separate systems of drainage.</li> <li>Contract. Highways, Making of.</li> <li>Contract. Highways, Making of.</li> <li>Contract. Separate systems of drainage.</li> <li>Day labor. Separate systems of drainage.</li> <li>Day labor. Separate systems of drainage.</li> </ul>	arties.	ract or Day Labor.	Day labor. Sewerage works. Contract. Sewerage works. Contract. Sewerage works. Day labor. Rebuilt. Sewerage works. 780.49 Contract. Sewerage works. 780.49 Cubic yards of rock. Contract. Separate systems of drainage. Contract. Seworage works.
<ul> <li>3 feet, eircular brick</li> <li>12.Inch pipe</li> <li>18.inch pipe</li> <li>13.Inch pipe</li> <li>13.Inch pipe</li> <li>13.Inch pipe</li> <li>13.Inch pipe</li> <li>13.Inch pipe</li> <li>14.Inch pipe</li> <li>15.Inch pipe</li> <li>15.Inch pipe</li> <li>15.Inch pipe</li> <li>15.Inch pipe</li> <li>15.Inch pipe</li> </ul>	tary 1, 1905, by Private I 12-inch pipe	by the City, either hy Contr	12-litch pipe 12-litch pipe 12-litch pipe 12-litch pipe 12-litch pipe 12-litch pipe 12-litch pipe 13-litch pipe
1,037.23 441.85 695.31 99.47 567.00 2290.88 323.67 323.67 323.67 16.00 16.00	and Febru 439.71 649.02	Dorchester. wary 1, 1905,	187.68 257.15 257.15 213.00 14.00 767.50 166.48 165.48 165.48 165.48
<ul> <li>Stony brook and Ashland street</li> <li>Sycamore and Whitford streets</li> <li>La Grange street and 260 fect south cast of fiellevue street</li> <li>Landser and Linnet streets</li> <li>Anawan avenue and Oriole street</li> <li>Rowe street and Seymour street</li> <li>Washington st. and Ilyde Park ave</li> </ul>	Severs built between February 1, 1904, and February 1, 1905, by Private Parties.	Dorchester. Sewers built between February 1, 1904, and February 1, 1905, by the City, either by Contruct or Day Labor.	Moseley street and Buttonwood street Rosechir street and existing sewer Willow court and ond of Field court Wilder street and Columbia road East street and Church street Devon street and Wilder street Existing sewer in Willow court and Field court
Hadwin way, Hyde Park         avenue and privite had         Kittredge street	Sevec Edgemont street	Severs built bet	Buttonwood court. Clapp place. Clapp place. Geneva aveuue. Ilighland street. Normandy street and private land.

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Surface Drains built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

IIC	LOCALITY.	Length in	Dimensions and	Domonica
Built in	Between	Feet.	Materials.	remarks.
Bowdoin avenue	Bowdoin street and Bullard street	$\left\{\begin{array}{c}48.75\\600.30\\37.00\end{array}\right.$	linear feet, 15-Inch pipe 12-inch pipe 10-inibe. catch-basin drain.	Contract. Separate systems of drainage.
Bradshaw street	At McLellan street	8.00	12-inch pipe	Day labor. Separate systems of drainage.
Esmond street	Bradshaw street and Blue Hill avenue	$\left\{\begin{array}{c} 364.20 \\ 547.90 \\ 40.00 \end{array}\right.$	15-inch pipe 12-inch pipe 10-in. pipe, catch-basin drain,	Contract. Separate systems of drainage.
Freeport street brook	Tide water to Bowdoin street	16.16	4 feet 6 inches circular brick,	Day labor. Sewerage works, 181.99 built in 1904 and 1905, but not showing on account of excess of preceding year.
Harvard street	Esmond street and railroad bridge	165.46 100.75 252.30 268.15	20-inch pipe 18-inch pipe 15-inch pipe 12-inch pipe	Contract. Separate systems of drainage.
Kingsdale street	Warner street and Standish street	195.45 7.00	10-inch pipe, catch-bash drain, 12-inch pipe	Contract. Separate systems of drainage.
Normandy street and private ( land)	Devou street and Wilder street	520.03 82.00	a teel o incres, prick 2 feet 6 inches, brick 24-inch pipe	Contract. Separate systems of drainage.
Nottingham street	Bowdoin avenue, Bullard street	40.50	lo-inch pipe	Contract. Separate systems of drainage.
Park street	Merlin street and Washington street	$\left\{\begin{array}{c} 372.45\\ 374.35\\ 25.00\end{array}\right.$	18-inch pipe	Contract. Separate systems of drainage.
Thane street	Park street and Harvard street	234.35 278.20 19.00	2 feet 6 inches, brick 24-inch phe	Contract. Separate systems of drainage.
Washington street	Bowdoin street and Faxon street	10.00	10-in. pipe, catch basin drain,	Contract. Separate systems of drainage.
Washington street	Washington street Columbia road and Eric street	269.90 55.00	20-Inch pipe 18-inch pipe	Contract. Separate systems of drainage.

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Rebuilding. Rebuilding. Rebuilding. Abandoned. Abandoned.	Jay Labor.	Contract. Some rock. Day labor. Rebuilding. Contract. Considerable rock. Contract. Considerable rock. Contract. Some rock. Contract. Some rock. Contract. Some rock. Contract. Some rock. Contract. Considerable rock. Contract. Considerable rock. Day labor. Some rock. Contract. Considerable rock. Day labor. Some rock. Contract. Considerable rock. Contract. Considerable rock. Day labor. Considerable rock.
10-Inch pipe	5, by the City, by Contract or 1	$ \begin{array}{c c} 12 \text{-Inch} & \text{pipe} & \hline \\ 15 \text{-inch} & \text{pipe} & \hline \\ 15 \text{-inch} & \text{pipe} & \hline \\ 16 \text{-inch} & \text{pipe} & \hline \\ 17 \text{-} & \text{1} \text{-} & \text{circular brick sever} & \hline \\ 17 \text{-} & \text{cor} & \hline \\ 18 \text{-} & \text{circular brick sever} & \hline \\ 18 \text{-} & \text{cor} & \hline \\ 19 \text{-} & \text{cor} & \hline \\ 18 \text{-} & \text{cor} & \hline \\ 18 \text{-} & \text{cor} & \hline \\ 19 \text{-} & \text{cor} & \hline \\ 18 \text{-} & \text{cor} & \hline \\ 19 \text{-} & \hline \\ 12 \text{-} & \text{cor} & \hline \\ 19 \text{-} & \hline \\ 12 \text{-} & \text{cor} & \hline \\ 10 \text{-} &$
Roseclair street and existing sewer       28,00         Wilder street and Columbia road       14.00         Devon street and Wilder street       32,00         Standish street to end of street       15.90	South Dorchester. Severs built between February 1, 1904, and February 1, 1905, by the City, by Contract or Day Labor.	Medway street and 350 feet southeasterly       354.84         No summit
Clapp place	Severs built between Februa	Beurse street.     Modway street and 350 fe       Colley street.     Nepoment venue and N

Severs rebuilt or abandoned between February 1, 1904, and February 1, 1905.

STREET DEPARTMENT --- SEWER DIVISION. 265

Concluded.
Dorchester
South

Surface Drains built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

	Remarks.	Contract. Some rock. Contract. Contract. Contract. Contract. Some rock. Day labor. Just started.	Day labor. Rock.	Contract.	Day labor. Rock.	Contract. Rock.	Contract.	Contract. Rock. Contract.	Contract. Rock. Contract. Rock.	Contract. Rock. Day labor. Some rock.
Dimensions and	Materials.	15-inch pipe 12-inch pipe 12-inch pipe 12-inch pipe 15-inch pipe 15-inch pipe	3 ft. 6 in., eire. briek conduit	18-inch pipe	3 feet circular brick conduit.	15-inch pipe	6-in pipe, house drain lowered	6-in.pipe,house drain lowered 5 12-inch pipe.	6-in.pipe.house drain lowered	
Lenoth in	Feet.	682.38 99.55 799.55 712.53 712.53 712.53	711.00	$\left\{\begin{array}{c} 737.40\\ +86.34\\ 169.80\\ 6.00\end{array}\right.$	496.00	<pre>     252.75     376.40     68.00 </pre>	20.00	45.00 529.55	24.00 375.40	923.00
LOCALITY.	Between	Richmond street and Butler street Bushnell street and Arundel park Dorchester ave. and Washington st Carruth street and Richmond street Ilarvard street and Don street	Lauriat avenue and Morton street	Weyanoke street and Ashmont street	Washington st. and 500 feet westerly	Morton street and Nelson street	Dorchester ave. and Washington st	Evans street and Corbet street	Lauriat ave. and about 500 ft. southerly, Ballou ave. and northerly to summit	Oakland brook
ΓO	Bulltin	Adams street Ashmont street Bailey street Beaumont street Buller street burook	of Stony {		street			: :		Oakland brook

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Contract. Rock. Contract. Rock. Contract.	rties.		act or Duy Lubor.	Contract. Separate systems of drainage	Contract. Separate systems of drainage.	Contract. Sewerage works. Day labor, in progress. Sewerage	Contract. Sewerage works. Day labor. Sewerage work.	Contract. Separate systems of dramage.	Day labor. Separate systems of drainage.	Kebult. (Contract. Separate systems of drainare.	Day labor. Sewerage works. Re- building.	Contract. Separate systems of drainage.
15-inch pipe	ary 1, 1905, by Private Pus	459.95 12-inch pipe.	by the City, either by Contr	I2-inch pipe	12-inch pipe	I2-inch pipe	18-inch pipe	12-inch pipe	2 feet × 3feet, brick 24-inch pipe. 18-inch pipe. 6-inch pipe, iron	12-inch pipe	5 feet $\times$ 4 feet, brick	I2-fach pilve
$\begin{array}{c} 250.00\\ 1,279.25\\ 51.25\\ 661.40\\ 661.40\\ 380.00\\ 16.00\end{array}$	and Febru	459.95	Roxbury. nary 1, 1905,	536.80	293,50	604.40 200.00	383.05 46.90	216.35	69.86 236.91 257.12 16.74	17.50 349.40	31.00	242.00
Adams street and Dorchesteravenue	Severs built between February 1, 1904, and February 1, 1905, by Private Parties.	Fabyan street	Roxbury. Severs built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Duy Lubor.	Sherman street and ILumboldt'avenue	Warren streetand Walnut avenue	Sue Itill avenue and Southwood street. Sussex street and Westminster street	Tremont street and Sussex street	Walnut avenue and Humboldt avenue.	Whittier street and Shawmut avenue	Rockland street and Dale street	Near Amory street	Waheno street and Humboldt avenue
Richmond street	80	Faliyan street	Severs built bet	Rower street	Crawford street and outlet in / Ellin Hill avenue	Edgewood street	Ilammond street	Ilarrishof street	Maywoods brook in Itampshire / street and Ruggles street /	Mills street	Stony brook valley sewer	Wyoming street

STREET DEPARTMENT — SEWER DIVISION. 267

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Surface Drains built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

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		systems	systems	systems	systems	systems	systems	systems	systems	aystems	systems	systems	systems	systems	systems
	Kemarks.	Separate	Separate	Separate systems	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate systems	Separate	Separate
		Contract.			Contract. Separate systems drainage.	Contract.	Contract.	Contract.	Contract.	Contract.	Day labor.	Contract.	Contract.	Contract.	Contract.
Dimensions and	Materials.	12-inch pipe	12-inch pipe	12-inch pipe	20-inch pipe 18-inch pipe 15-inch pipe 12-inch pipe 10-in mine. catch-hash drain	12-in. pipe	12-in. pipe	18-inch pipe	24-inch pipe	15-inch pipe 12-inch pipe 10-in. pipe. cutch-basin drain,	12-inch pipe	12-inch pipe	Binch pipe Binch pipe Pinch pipe	10-111, pape, catch-bash urant. 18-inch pipe	12-inch pipe
Ceneth in	Fëet.	186.20	595.05 39.00	548.00	643.35 1,121.75 1,088.95 1,261.55 1,17.00	1,086.35	374.30	32.25 28.00	0.65	$\begin{array}{c} 375.00\\ 828.00\\ 25.00\end{array}$	344.77	$261.00 \\ 46.00$	434.20 339.60 302.50 1000	189.95 31.85	399.60
		:				;	<u>ن</u> ـ			<u> </u>	<u></u>	'	 		:
	Between	Sherman street and Humboldt avenue	Warren street and Blue Hill avenue	Existing drain and Blue IIill avenue.	Warren street and Walnut avenue	Blue Hill avenue and Warren'street	Rockland street and Buena Vista street.	Gaston street and Holborn street	Blue IIill avenue and Gannett street	Walnut avenue and Humboldt avenue	Blue Hill avenue, westerly	Blue Hill avenue and Warren street	Elm Hill avenue and Humboldt avenue,	Brookledge street and Scaver street	Kingsbury street and Bluore street
LOCALITY.		. Sherman s	. Warren str	. Existing di	Crawford street and outlet in Elm Hill avenue	. Blue Hill a	. Rockland s	. Gaston str	. Blue Hill 8	. Walnut av	Blue Hill	Blue Hills	Elm Hill a	Brookledg	Kingsbur

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# CITY DOCUMENT NO. 40.

of	s of			of	of	of	of	of		ome				
systems	system	systems	systems	systems	systems	systems	systems	systems		r to bee				
Separate s	Separate systems of		Separate s	Separate s	Separate s	Separate s	Separate s	Separate s		d sewel	dram.			
										0	d. d.		d.	.d.
Contract.	Day labor. drainage.	Contract. drainage	Contract. drainage	Contract. drainage	Contract. drainage	Contract. drainage	Contract. drainage	Contract. drainage	905.	Rebuilding. Old sewer to become	nutare surrace dram. Rebuilding. Abandoned.	Rebuilt.	Abandoned.	A bandoned.
12-inch pipe		- <u>, -, -</u> ,		12-inch pipe (C		15-iach pipe	~	12-inch pipe { C	, 1904, and February 1. 15	19 inch nine server	~ .	$\overline{\cdot \cdot}$	<u>~~~</u>	<u>.</u>
528.35 620.82		1,253.20 65.00	19.35	546.00 893.13 51.00	60.50 12.00	166.25 691.35 10.00	1,037.08	244.80	February 1	00 011	31.00	671.82 17.50	134.00 14.00	285.00
				<u></u>	:	<u>~~</u>		:	en j				:	:
et		:	•						0					
. Elmore street and Bainbridge street	Maywoods into hamper ( Whittier street and Shawmut avenue street and Ruggles street )	Blue Hill avenue and Warren street	Dale street and Rockland street	Blue Hill avenue and Warren street.	Wabon street	Westminster avenue	Blue Hill avenue and Warren street	Wyoming street Wabeno street and Humboldt avenue	Severs Rebuilt or Abandoned between February 1, 1904, and February 1. 1905.	Deathand street and Dale street	struits sur eeu. Stony brook valley sewer Near A mory streed		Maywools brook in Atampshire { Whittier street to Shawmut avenue street and Ruggles street }	Crawford street and outlet in { Warren street to Walnut avenue

Warren street to Wahnut avenue 285.00	ls street	ls street	140.00 31.00 35.00 17.50 134.00 14.00	<ul> <li>12 inch pipe, sewer</li></ul>	Rebuilding. Old sewer to become future surface drain. Rebuilding. Abandoned. Rebuilt. Abandoned.
	wford street and outlet in In IIII avenue	en street to Walnut avenue	40.00 285.00	12-inch pipe, sewer	) Abandoned.

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Severs built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

	LOCALITY.	Length in	Dimensions and	Domentes
Built in	Between	Feet.	Materials.	Louistres.
Iemenway street	Hemenway street Westland avenue and Boylston street	20.00 34.00 36.00	20-inch iron pipe, sewer 12-inch pipe, sewer 6-inch pipe, sewer drain relaid.	96-inch iron pipe, sewer     Contract. Separate systems of 12-inch pipe, sewer       6-inch and S.inch pipe, from 1903.     Cartried over from 1903.
Fisher avenue Pa	Fisher avenue Parker street and Bucknam street	64.39	64.39 12-inch pipe, sewer	12-inch pipe, sewer
št. Alphonsus street W	St. Alphonsus street Ward street and Smith street	~~ .	relaid	Contract: Selvature Specific of Contracte Consulta systems of
Trancis street 111	Francis street Iluntington avenue and Vila street	35.00	relaid	) drainage.
sachem street Ca	Sachem street Calumet street and Hillside street	5.00	6-inch pipe, old house drain relaid	Contract. Separate systems of drainage.

Surface Drains built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

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		522.23	30-inch circular brick, sur- face drain	) Contract.	Separate	systems o	ببه
Hemenway street	Westland avenue and Boylston street	132.00	12-inch pipe, surface drain 6-inch and 10-inch pipe,	> drainage. Carried over from 1903.	Carried	over fron	3
St. Alphonsus street	Ward street and Smith street	680.24 59.00 005.60	12-Inch pipe, surface drain   Contract Separate systems of 10-in, pipe, catchibasin drain,   drainage.	Contract	Separate	systems o	4-4
Francis street	Huntington avenue and Vila street	6.00 98 00	12-inch iron pipe, surface	Contract. Separate drainage.	Separate	systems of	ب
Westland avenue	Hemenway st. and Massachusetts ave	953.84 953.00		Contract. Separate systems of dyalnage.	Separate	systems o	÷
		24.00	drain relaid				

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# CITY DOCUMENT NO. 40.

	of	of	on On	of	of	of	of	of	j č	of	of
vorks.	systems	systems of	systems of over from	systems	Separate systems Part ledge.	systems	systems	systems	er from 19	systems	systems
Sewerage works.	Separate systems	Separate	Separate Carried Ioo	Separate Ledge.	Separate s Part ledge.	Separate systems	Separate systems	Separate	Separate Carried ov	eparate	
Contract. S	Contract. drainage.		Contract. Separate drainage. Carried 1903 Lotton	Contract. Separate drainage. Ledge.	Contract. drainage.	Contract. drainage.	Contract. drainage.	Contract. drainage.	Day labor. Separate systems of drainage. Carried over from 1903.	Contract. Separate systems drainage.	Contract. Separate drainage,
12-inch pipe, surface drain	18-inch pipe, surface drain	15-Inch pipe, surface drain 15-inch pipe, surface drain 12-inch pipe, surface drain 10-in. pipe, catch-basin drain	10-in. pipe, catch-bash drain,	15-inch pipe, surface drain.	I5-inch pipe, surface drain  12-inch pipe, surface drain  10-in. pipe, catch-basin drain,	24-Inch pipe, surface drain 6-inch and 10-inch p1pe, chimneys	12-inch pipe, surface drain	15-inch pipe, surface drain 12-inch pipe, surface drain 10-in. pipe, catch-basin drain.	~~~	:::	10-in. pipe, catelu-basin drain, J 12-in. pipe, surface drain
294.56 28.00	315.74 279.30 297.44	559.80 761.77 824.20 35.00	103.00	613.25 850.96	233.93 671.78 16.00	737.80 115.00	$\frac{214.97}{129.87}$	298.58 829.57 18.00	89.30	438.63 397.72 691 22	177.00 328.37 8.00
	:										
Columbus avenue and Watson street	Day street and Centre street	Bryant street and Gainsborough street	Tremont street and Calumet street	Tremont street and St. Alphonsus street,	St. Alphonsus street and Sachem street,	Hemenway st. and Massachusetts ave	St. Alphonsus st. and Huntington ave	Parker Hill avenue Angle in street and 1,130 feet east	Huntington avenue Wigglesworth street and Tremont street,	Minden street and Perkins street	Calumet street and Hillside street

STREET DEPARTMENT --- SEWER DIVISION. 271

Ir	LOCALITY.			
Duilt in	Tatwoon	Length in Feet.	Dimensious and Materials.	Remarks.
HI JUNG				
Barton court.	Brighton street and Barton street	{ 146.60 81.00 81.00	24 inch pipe, sewer	Contract. Rebuilding, Sewerage
Public alley 303	Pinckney street, southerly	13.00 13.00 11.00	sinch pipe, sewer Sinch pipe, sewer Sinch fron pipe, sewer Ginch pipe, old house drain,	Contract. Ilighways, Making of.
Charles street	Revere st. and a point 230 ft. northerly.	225.62	12-inch pipe, sewer.	Daylabor, Rebuilding, Sewerage works.
Hull street	Commercial street and Snow Hill street,	268.79	12-inch pipe, sewer	Daylabor. Rebuilding. Sewerage works.
Harrison ave. and Knapp st	Kneeland street and angle	281.38	18-inch pipe, sewer	Daylabor, Rebuilding, Sewerage
Village street	Compton street and Castle street	432.37	12-inch pipe, sewer	Contract. Sewerage works.
Harrison avenue	Oak street and Maple place	189.76	24-inch pipe, sewer	) Day labor. Rebuilding. Sewerage ) works.
Chambers street outlet Fruit-street outlet	Charles street and Charles river Charles street and Charles river	199.04 216.78	2 feet 6 inches $\times$ 3 feet, wood, 2 feet 6 inches $\times$ 3 feet, wood,	Sewerage works.
Hayward place	Washington st. and Harrison ave	98.25	12-inch pipe, sewer	Day labor. Rebuilding. First time. Private parties.
Court square, west side	Court street, southerly	132.69	12-inch pipe, sewer	Contract. Carried on from 1903. Sewerage works.
Providence street	Berkeley street and 250 feet casterly	246.60	12-inch pipe, sewer	Day labor. Rebuilding. Sewerage works.
Chambers street	Chambers court and 60 feet northerly	58.42 ( 4.132.79	12-inch pipe, sewer	
Back street	Otter street and Hereford street	226.60	20-inch iron pipe, sewer.	Day labor. Charles river basin and sewerage works.
Lovering place.	Washington street and Harrison avenue,	302.73	12-inch pipe, sewer	. Rebnilding.
East Canton street	Albany street and Harrison avenue Washington street and Harrison avenue,	422.47 93.00	18-inch pipe, sewer	Contract. Rebuilding. Sewerage Vworks. Day labor. Second Rebuilding.

City Proper.

Severs built between February 1, 1904, and February 1, 1905, by the City, either by Contract or Day Labor.

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CITY DOCUMENT NO. 40.

Contract. Highways, Making of. Contract. Sewerage works. Day labor. Charles river basin.	Parties.	Rebuilding. Built by Transit Commission. Built by Transit Commission.	Built by Transit Commission. Built by Transit Commission.
10 in. pipe, catch-basin drain, 2 cuch-basins.       12-inch pipe, surface drain       12-inch pipe, surface drain       10-in. pipe, surface drain       11-pipe, surface drain       12-inch pipe, surface drain       10-in. pipe, catch-basin drain.	ary 1, 1905, by Private	$\begin{array}{llllllllllllllllllllllllllllllllllll$	24. inch pipe
$\left\{\begin{array}{c} 6.00\\ -6.00\\ -64.55\\ -26.10\\ 3.973.12\\ -3.973.12\\ -20.00\end{array}\right\}$	and Febru	55.72 50.70 204.00 196.00 370.00 370.00 435.00 435.00	235.00 154.00 179.00 179.00 179.00 183.00 183.00 183.00 235.00
Pinckncy street, southerly.	Severs built between February 1, 1904, and February 1, 1905, by Private Parties.	South Market street, southerly kneelund street and and flarvard street, Tyler street and Barrison avenue. Ilarvard street and Bennet street. Ilarvison avenue and Wishington.street tunnel. Washington-street tunnel. Washington-street tunnel. Washington-street tunnel and Washing- ton street.	Rennet street and Hollis street. Eliot street and Dix place Eliot street and neur LaGrange street. Neur LaGrange st. and Doylston sq LaGrange street and neur JaGrangs street. Vashington st. and 103 feet westerly Onmerdon with old sewver. Connerdon with old sewver. Serr Washington st. and Harvison ave. Essex street and Inayward place Near Atlantic area, and uear Federal st. Near Federal street and 30 feet west of Haw ley street.
Public alley 303	Sewe	Corn court. Larrison avenue. Harrison avenue. Harrison avenue. Bennet street. Pennet street. Nashington street.	Washington street Washington street Washington street Washington street Washington street Ladrange street Ladrange street Ladrange street Besex street Besex street Bevey square. Summer street

Surface Drains hall between February 1, 1:04, and February 1, 1905, by the City, either by Contract or Day Labor.

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STREET DEPARTMENT - SEWER DIVISION. 273

District.	Built by the City by Contract or Day Labor.	Built by Private Parties.	Total Leng dnring the li ending Janua	th Built 2 Months ry 31, 1905.
	linear feet.	linear feet.	linear feet.	miles.
City Proper	11,968.82	4,744.72	16,711.54	3.17
Roxbury	15,615.93		15,615.93	2.96

## Summary of Sewer Construction for the Twelve Months ending January 31, 1905.

## Schedule of Sewers Built to Date in the City of Boston, February 1, 1905.

DISTRICT.	Total Length Built during 12 Months ending January 31, 1905.	Length Abandoned or Rebuilt dur- ing the 12 Months ending January 31, 1905.	Additional L the 12 Monti Januar 1905	nsending 731,
	linear feet.	linear feet.	linear feet.	miles.
City Proper	16,711.54	2,149.00	14,562.54	2.76
Roxbury	15,615.93		15,615.93	2.96

## Totals Built by the City by Contract or Day Labor.\*

DISTRICT.	Brick, Wood or Concrete Sewers or Surface Drains.	Pipe Sewers or Surface Drains.
	linear feet.	linear feet.
City Proper	415.82	11,551.00
Roxbury	611.53	15,004.40

\* Does not include sewers built by private parties.

STREET DEPARTMENT - STREET CLEANING DIVISION. 275

## APPENDIX F.

## REPORT OF THE DEPUTY SUPERINTENDENT OF THE STREET CLEANING DIVISION.

#### 941 TREMONT BUILDING, BOSTON, February 1, 1906.

MR. CHARLES LOGUE,

Acting Superintendent of Streets:

DEAR SIR, — I have the honor to submit the annual report of the Street Cleaning Division of this department for the year ending January 31, 1906.

The work of the year has been of the ordinary, almost routine character.

An attempt was made during July and August to flush some of the down-town streets with flushing carts furnished, for the experiment, by a firm from a neighboring city; but they proved costly, besides wearing very heavily in some places on the joints of the block pavement, and were, consequently, abandoned.

Of the amount charged to snow, namely, \$57,437.03, the greater part of it — \$50,143.54 — was spent during the snow season of 1904–1905, the balance — \$7,293.49 — representing the amount debited to this work during the closing months of the year just elapsed.

Some very important recommendations were submitted in the report of last year, and, if they were not acted upon, it is only right to conclude that the appropriation did not warrant it.

Again recognizing their importance, and, in the hope that some future committee on appropriations will appreciate them as the division does, I beg leave to repeat them and to urge their realization.

## RECOMMENDATIONS.

Extend the lines of the Dorchester District. A' larger force for Roxbury, to cover the entire district. Establish small force in Jamaica Plain and Brighton. A new stable for South Boston and Dorchester.

## CITY DOCUMENT No. 40.

Extend the push-cart system. Scow at the end of Charles River avenue. Uniform size receptacle for store and house dirt.

## Respectfully submitted,

JOSEPH J. NORTON, Acting Deputy Superintendent.

## FINANCIAL STATEMENT.

Appropriation, 1	905-1906	•					\$430,000	00
Transferred from	Overseers	s of	the P	oor			273	42
66	Registry	Dep	artine	nt			896	93
66	Wire Dep	oartr	nent				3,641	94
" "	Bath Dep	bartn	nent				764	85
" "	Surplus i	ever	nue	•	•		13,260	65
Total exp	enditures	•	•	•	•	•	\$448,837	79
	Objects	OF	Expe	NDITU	RES.			
Salary of Superin	tendent						\$3,000	00
Office pay-rolls							4,638	99
Stationery .							321	27
TD 1 11							594	67
Board of horses,	not mentic	oned	elsew	here			496	83
Telephone service	е.	•	•	•	•	•	646	36
							\$9,698	12

# Machine Sweeping of Paved Streets.

This includes cost of sweeping, loading and removal of street dirt.

District 1, South Boston					\$14,291	31
District 2, East Boston	•				6,877	95
District 3, Charlestown						
District 6, Dorchester	•				$3,\!673$	68
District 7, Roxbury .				•	$15,\!556$	43
District 8, South End :						
Up-town gang .			•		$12,\!335$	02
Down-town gang .					35,050	06
District 9, Back Bay .		•			$5,\!486$	15
District 10, West End		•			14,739	32
District 10, North End					14,700	<b>40</b>
					\$133,841	79

Total length of miles cleaned, 13,610.

## STREET DEPARTMENT - STREET CLEANING DIVISION. 277

## Cleaning Gutters.

This includes cost of sweeping, loading and removal of street dirt.

District 1, South Boston					\$2,349 66
District 2, East Boston					3,034 88
District 3, Charlestown	•			•	2,108 59
District 7, Roxbury .	•				1,128 83
District 6, Dorchester .					4,064 24
District 8, South End :					
Up-town gang .	•				2,866 79
Down-town gang .			•		
District 9, Back Bay .					4,617 78
District 10, West End		•	•		
District 10, North End	•			•	

\$20,170 77

Total length of gutters cleaned, 3,557 miles.

## Cost of Maintaining Dumps.

District 1, South Boston				\$430 40
District 2, East Boston			•	$103 \ 10$
District 3, Charlestown				$445 \ 60$
District 6, Dorchester.				$118 \ 63$
District 7, Roxbury .		•		456 55
District 8, South End:				
Up-town gang	•			437 85
Down-town gang .	•			570 99
District 9, Back Bay .				$404 \ 33$
District 10, West End	•			$289\ 63$
District 10, North End		•		$269 \ 77$
				\$3,526 85

## Removing Snow.

This includes labor on crossings, in streets, carting of snow, etc. It also includes the snow work of the Patrol System.

#### Miscellaneous.

This shows the cost of such work as may not be characterized the same in all districts.

District 1, South Boston District 2, East Boston			·· )
			\$2,890 93

# CITY DOCUMENT NO. 40.

$Brought\ forward$ .		•				\$2,890	93
District 3, Charlestown						44	00
District 6, Dorchester .						18	00
District 7, Roxbury	•		•			1,324	<b>43</b>
District 8, South End :							
Up-town gang .	•	•	•	•	•	2,518	76
Down-town gang .			•			2,464	97
District 9, Back Bay .						1,681	04
District 10, West End				•		1,081	31
District 10, North End	•					704	<b>49</b>
						\$12,727	93

# Patrolling by Districts.

This includes the cost of picking up and removal of refuse papers, etc., from the streets.

1 1								
District 1, South Bosto	on					•	\$1,321	01
District 2, East Boston	ı						1,402	<b>20</b>
District 3, Charlestown								
District 6, Dorchester			•				17	50
District 7, Roxbury							66	90
District 8, South End :								
Up-town gang		•					63	51
Down-town gang							400	75
District 9, Back Bay							16	77
District 10, West End							803	72
District 10, North End							20	38
							\$3,612	<b>74</b>
	$\mathcal{D}$	uhlio	Alley	0				
Tahan and tooming	1	uonic	Aney				\$216	71
Labor and teaming	•	·	•	·	•	•	Φ210	1.1
			-	**	<b>.</b> .			
Collectio	n of	Ashe	s and	Hous	se Di	rt.		
This was done to l	ieln ·	the S	Sanita	rv D	ivisio	n in	its spri	ing
cleaning work.	P			J			· •	0
0							\$739	18
Labor and teaming	•	•	•	·	•	·	\$100	40
							\$708	00
Flushing	•	•	•	•	·	·	\$100	00
This was experime	ntal.							
Pu	sh-ca	rt P c	utrol 1	Syster	n.			
Commistandanaa ingno	ation	etc.					\$7,954	88
Superintendence, inspe								82
Push-carts, labor, team				•	•	·	56,052	
Push-carts, labor, tean Paper patrolling .		etc.		•	• •	•	$56,052 \\ 4,663$	83
Push-carts, labor, team							56,052	83

## 278

# STREET DEPARTMENT - STREET CLEANING DIVISION. 279

Brought forward.				•	\$71,076 70
Holidays		•		•	5,547 $65$
Repairs at station, 95 C	olumb	ous av	enue		$49 \ 72$
Sundries, repairs, etc				•	2,735 29
Miscellaneous work .			•	•	3,648 50
					\$83,057 86
					¢00,007 00

## Stable and Yard Expenses.

In the following statement is included the cost of the South End, West End, Roxbury, South Boston, Charlestown and East Boston stables:

Superintendence of South stable	\$1,403 87
Labor, including the cost of feeders, hostlers,	
broommakers, watchmen, yardmen, messenger,	
hay, grain, etc.	52,121 58
Cart and carriage repairs	5,847 75
Horseshoeing	4,018 26
Harness repairs	1,608 39
Sweeping machine repairs	2,950 16
Stable and shed repairs	881 33
Street car tickets and travelling expenses	$825 \ 00$
Tool repairs	516 $35$
Veterinary services and medicine	2,378 01
Board and care of horses not mentioned elsewhere,	$275 \ 00$
,	
	\$72,825 70
See Patrol System.	
soo i adioi system.	
Stock Account.	
Broom stock purchased	\$4,658 18
Harness and horse furnishings purchased	1,452 32
Horses purchased	7,866 33
Tools purchased	1,048 47
Carts, carriages, etc.	412 00
Sweeping machines	525 00
	\$15,962 30
See Patrol System.	
see 1 attor system.	
Miscellaneous.	
Holidays	\$21,214 65
Scow (cost of disposal at sea of 41,741 loads of	\$21,214 UO
street dirt)	10,923 19
street dirt)	2,568 74
Annuity	300 00
Charles River dump	118 96
charles arter dump	110 50
	\$35,125 54

See Patrol System.

Superintendence			•	•		\$9,698	12
Machine sweeping of	paved	stree	ts			133,841	79
Cleaning gutters	`.					20,170	77
Maintaining dumps						3,526	85
Removal of snow and	ice					57,437	03
Miscellaneous work						12,727	93
Paper patrolling						3,612	74
Ashes and house dirt						739	48
Cleaning public alleys						216	71
Flushing	•		•			708	00
Patrol system, push-c						83,057	96
Stable and yard expen						72,825	70
Stock account .						15,962	
Miscellaneous .						35,125	54
					-	\$449,650	82
					-		

## GENERAL RECAPITULATION OF EXPENSES.

Of the above amount, the sum of \$813.03 was paid by the Paving and Sewer Divisions for work done, thus making the total net expenses of this division, as shown in the financial statement, \$448,837.79.

#### INCOME.

Amount of bills deposited with the City Collector during the financial year ending January 31, 1906, \$1,326.86.

Table Showing the Number of Loads of Street Dirt Remove	Table	Showing	the Numbe	er of	Loads of	Street	Dirt	Removed
---	-------	---------	-----------	-------	----------	--------	------	---------

DISTRICT.	Number of Loads of Dirt Removed.	Cost per Load of cleaning Streets and removing to Dumps, in- cluding Fore- man's Superin- tendence.
1	$18,320\\8,321\\8,582\\10,775\\8,913\\10,049\\21,495\\5,213\\8,239\\9,525$	0 90 1 18 1 54 71 1 87 1 51 1 63 1 93 1 78 1 54
Removed by push cart patrol system Removed by district push-carts Removed by paper patrol	109,432 5,370 <b>2</b> ,993	Barrels and Bag Loads. 71,157 29,496
	117,795	160,653

## STREET DEPARTMENT - STREET CLEANING DIVISION. 281

Forty-one thousand, seven hundred and forty-one (41,741) loads, or 35 per cent., of street sweepings were delivered at the dumping scow at Fort Hill wharf, the towing of which to sea cost twenty-seven (27) cents per load.

## PUBLIC WASTE BARRELS.

Total number of waste bar Total number of subway b		-		•	•	$\substack{9,983\3,467}$
Total	•	•		٠		13,450
	Sum	MARY	z.			
Miles of streets cleaned						13,610
Miles of gutters cleaned					•	3,557
Loads of dirt removed					•	114,802
Loads of paper and refuse	remo	ved				2,993
Push-cart barrels emptied						100,653
Waste barrels emptied	•				•	9,983
Subway barrels emptied			•	•	•	$^{3,467}$

PROPERTY OCCUPIED BY THE STREET CLEANING DIVISION.

South Boston. — Lease of stable, corner of H and Second streets.

East Boston. — Part of stable on East Eagle street, leased. Charlestown.— Part of stable on Rutherford avenue. City

stable. Office building, Rutherford avenue. City property. Roxbury. — Part of stable on Highland street. City stable. South End. — Part of stable, 650 Albany street. City stable.

West End. — Part of stable on North Grove street. City stable.

Back Bay. — Lease of building, 95 Columbus avenue.

CITY DOCUMENT NO. 40.

# APPENDIX G.

# REPORT OF THE DEPUTY SUPERINTENDENT OF THE STREET WATERING DIVISION.

801 TREMONT BUILDING, BOSTON, MASS, February 1, 1906.

## MR. CHARLES LOGUE,

Acting Superintendent of Streets:

DEAR SIR, — I respectfully submit the annual report of the Street Watering Division of the Street Department for the financial year ending January 31, 1906.

The expense of watering all public streets during the year was \$189,347.50.

The total number of carts used during the year was 253, an increase of one over last year.

Yours respectfully,

AMBROSE WOODS, Acting Deputy Superintendent.

## FINANCIAL STATEMENT.

Amount of a	approj	priation						\$165,000	00
Transferred	from	Sanitar	y Depa	artme	$\mathbf{nt}$		•	15,000	00
" "	" "	Reserve	Fund					3,500	00
" "	"	Cambrid	lge Br	idges	Divis	sion		2,579	13
" "	" "	Central	office	•		•		97	09
"	"	Bridge I	Divisio	n		•		435	46
66	"	Street L	aying-	Out	Depar	tmen	t.	1,699	44
Transferred	from	Oversee	ing of	the	Poor	Depa	ırt-		
ment	•	• •	•	•	•	•	•	1,036	38
								\$189,347	50
								\$189,347	50

# STREET DEPARTMENT - STREET WATERING DIVISION. 283

Salaries and labor			\$19,902	66
Teaming			160,610	50
Water posts, repairs, etc., .			4,455	18
Board of horses			1,275	53
Shoeing and clipping			206	23
Veterinary service and medicine			314	71
Harnesses and supplies .			202	59
Horses, purchase of, and hire	•		594	29
Vehicles, purchase of, repairs, e	te.		408	62
Printing			99	01
Stationery and postage .			93	75
Bicycles, repairs, etc			825	05
Telephone service			169	13
Car-fares			100	00
General supplies		•	90	25
			\$189,347	50

## OBJECTS OF EXPENDITURES.

# Objects of Expenditures, Classified by Districts, from February 1, 1905, to January 31, 1906.

DISTRICTS.	Teaming.	Labor.	Maintenance.	Totals.
South Boston	\$15,064 00	\$1,249 50	\$1,249 36	\$17,562 80
East Boston	10,012 50	1,249 50	869 12	12,131 12
Charlestown	7,350 00	624 75	651 84	8,626 59
Brighton	13,077 50	1,249 50	1,140 72	15,467 72
West Roxbury	20,965 00	1,874 25	1,792 57	24,631 82
Dorchester	24,058 00	2,499 00	2,064 17	28,621 17
Roxbury	25,692 00	1,874 25	2,227 13	29,793-38
Back Bay	14,376 50	1,249 50	1,140 72	16,766 72
South End	13,000 00	1,249 50	1,086 40	15,335 90
City Proper	17,015 00	1,874-25	1,520 97	20,410 22
	\$160,610 50	\$14,994 00	\$13,743 00	\$189,347 50

# CITY DOCUMENT No. 40.

## EXPENDITURES SINCE 1899.

The expenditures since 1899, when the city assumed, for the first time, the watering of paved streets, are as follows:

1899	•			•				\$174,625	97
1900	•			•		•		174,742	45
1901	•	•	•	•	•			164,259	36
1902	•	•	•	•		•		160, 147	25
1903	•	•	•	•	•	•	•	164,104	<b>74</b>
1904	•	•	•	•	•	•	•	$165,\!071$	
1905		•	•	•	•	•	•	189,347	50

# Amount of Water Used in 1905.

Capacity of two-horse cart (gallons) .		600
Average loads thrown per day, per cart		26
Total gallons thrown per day, per cart.		15,600
Number of cart days worked		$32,\!122$
Total gallons of water used	•	501,103,200

#### Distribution of Carts, showing Entire Amount of Work Done.

DISTRICTS.	Hired Carts.	Number Miles Covered.	Average per Cart.
South Boston	23	40	1.74
East Boston	16	25	1.56
Charlestown	12	22	1.83
Brighton	21	41	1.95
West Roxbury	33	76	2.30
Dorchester	38	92	2.40
Roxbury	41	86	2.10
Back Bay	21		
South End	20 >	83	1.20
City Proper	28		
Totals	253	465	1.89

# STREET DEPARTMENT - STREET WATERING DIVISION. 285

					ΎE	AR.					
	1891.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	Electric
South Boston	23	28	35	38	39	39	39	39	40	40	
East Boston	16	34	41	42	42	42	43	43	45	45	
Charlestown	19	20	20	21	22	22	22	22	22	22	
Brighton	25	44	47	50	48	50	50	50	50	50	
West Roxbury	50	67	75	86	81	84	85	85	85	*88	
Dorchester	61	83	88	99	100	101	101	102	105	103	
Roxbury	53	68	76	80	73	75	75	75	75	75	
City Proper	24	53	6 <b>9</b>	74	68	73	73	72	72	72	
Totals	271	397	451	490	473	486	488	488	494	495	

Location of Water Posts by Districts.

NOTE. — During the year 9 posts were relocated, 1 post abandoned, and 2 new posts erected. \* One pipe transferred from Dorchester district to West Roxbury district.

## APPENDIX H.

## REPORT OF THE COMMISSIONER OF BOSTON AND CAMBRIDGE BRIDGES.

BOSTON, February 1, 1906.

## MR. CHARLES LOGUE,

Acting Superintendent of Streets:

SIR, — I herewith submit the following report of the work done on the Boston and Cambridge bridges for the year ending January 31, 1906.

The Commission is composed of one member from Boston and one member from Cambridge, and had, during the early part of the year, the management of the eight bridges between the two cities, and the expense of maintaining them was borne equally by the two cities. Two of these bridges have been closed to travel during the year, and the Commission has the care of the remaining bridges.

#### CAMBRIDGE-STREET BRIDGE.

Electric motors have been installed for operating the draw. The deck planking and stringers on the Boston side of the bridge and the planking along the waterway need extensive renewal; one draw-arm should be replaced and the abutments need small repairs.

## CANAL OR CRAIGIE'S BRIDGE.

On July 1 this bridge was closed to public travel, and the maintenance and operation of the temporary bridge built in its place passed into the hands of the Charles River Basin Commission.

#### ESSEX-STREET BRIDGE.

This bridge was closed to travel October 2, and is now being rebuilt; the new bridge is to be known as Brooklinestreet Bridge.

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#### HARVARD BRIDGE.

During the past summer the asphalt sidewalks for the entire length of the bridge on both sides and the planking supporting them were removed, and a new walk of 3-inch hard pine plank laid. The curb stringers were also renewed for the entire length on both sides. The sidewalks and the roadway of the fixed spans are now in good condition; the flooring of the draw, however, is in very poor condition and should be rebuilt at once. The stringers and nearly all of the lower planking are those put in when the bridge was built in 1891, and they are now so badly decayed that the deck cannot be considered safe for the heavy loads passing over it. The sheathing is worn so thin that it should be renewed at once, and it would not be economy to put new sheathing on so poor a lower planking.

The planking of the draw-fender pier is very rotten, and although it has been patched in many places, a person walking on the pier is liable to break through.

The caps on the fender-guards are also badly decayed and several of the iron plates have disappeared from the corners. Both fenders should be repaired.

The gates across the roadway at the draw are old and should be replaced by iron gates of more approved design.

The girders are somewhat rusty and should be painted in the near future. The railings on both sides of the bridge were painted during the past year, and the whole bridge presents a much better appearance than it has for a number of years.

With the exception of the tracks, which are somewhat worn, the machinery of the draw is in good condition and the draw is working very satisfactorily.

#### NORTH HARVARD-STREET BRIDGE.

The original bridge was built in 1662. It is in poor condition and too narrow, and should be replaced by a wider bridge.

## PRISON POINT BRIDGE.

The present temporary bridge is kept in repair by the Boston & Maine Railroad, the Commission having charge of the operation of the draw.

## WEST BOSTON TEMPORARY BRIDGE.

This bridge was built to accommodate the travel until Cambridge Bridge should be built. The deck planking is in poor condition and frequent repairs are made on it.

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## WESTERN-AVENUE BRIDGE TO CAMBRIDGE.

The Boston end of the bridge needs general repairing. The Cambridge end is in fair condition, except some of the lower planking, which needs renewal, and the piers need repairing.

## IN GENERAL.

The usual statement is appended showing the number of draw openings and the number of vessels which passed through.

The amount of revenue for rents, wharfage, etc., during the year has been \$824.90. One-half of this has been paid to each city. The City of Cambridge paid the City of Boston on December 29 the sum of \$1,457.97, being one-half of the weekly pay-rolls for reconstruction of Harvard Bridge sidewalks.

Respectfully submitted,

CHARLES LOGUE, Commissioner for Boston.

## FINANCIAL STATEMENT.

February 1, 1905, to January 3 Appropriation for financial year			з.	\$22,000	00
City of Cambridge, one-half wee vard Bridge, reconstruction of				1,457	97
Total					
Expended to January 31, 1906					
Balance transferred to other app	ropri	ations	в.	\$2,579	13

		51.															510		209	
Totale.	\$11,711 70	4,682 25	2,204 32	631 23	448 83	273 66	138 53	144 58	120 00	76  03	$62 \ 99$	52 20	4 00	$250 \ 00$	49 64	14 63	14 25	\$20,878 84		\$266 00
General Account.														\$250 00	49 64	14 63	14 25	\$328 52		
Western Avenue.	\$711 34	227 82	48 00	167 86		35		8 17				15 89						\$1,179 43		\$28 00
West Boston.	\$1,851 40		612 30		263 50	22 89	15 20	3 73				6 98						\$2,776 00		\$56 00
Prison Point.	\$1,516 00	54		8 98		18 01		4 10									•	\$1,547 63		\$56 00
North Harvard Street.	\$514 00	95 38		85 79		3 23		6 75	•••••		15 33	2 15		•••••				\$722 63		\$14 00
llarvard Street.	\$4,663 01	3,956 33	1,170 00	59 12	93 23	175 22	23 20	67 65	120 00	76 03	43 57		•••••		••••••			†\$10,447 36	\$56 00	1,457 96 4,004 54
Essex Street.	\$670 00	139 02	146 67	60 76				5 66			35							\$1,022 46	\$28 00	
Craigie's.	\$1,091-31	29 86	179 35	73 34	92 10	49 I5	94 53	36 05				17 94	4 00	•••••	• • • • • • • • • •			\$1,667 63		
Cambridge Street.	\$694 64	233 30	48 00	175 38		4 81	5 60	12 47			3 74	9 24						\$1,187 18	\$28 00	
OBJECT OF EXPENDITURES.	Drawtenders*	Lumber	Electric light	General repairs	Cleaning bridges	Sundries	Fuel	Tools and Hardware	Electric current	Electric repairs	Paint and painting	Ironwork	Water rates	Secretary	1 <sup>3</sup> rinting	Stationery	Furniture	Totals	* Extra help during vacations of draw- tenders included in above	Labor

STREET DEPARTMENT - BRIDGE DIVISION. 289

DATE.	L. B. 6 and Page.	Items.	Bridges,	Total.	One-half City of Boston.	One-half City of Cambridge.
March 4	134	J. Freedman, rent \$20, less water tax, \$7.55 Boston Elevated Railway Company, repairing	Cambridge Western avenue	\$12 65 33 35	\$6 32 16 68	<b>\$</b> 6 33 <b>16 67</b>
May 11	158	J. Freedman, rent. J. Freedman, old building Yacht "Gleam," wharfage	Cambridge	20 00 25 00 40 00	10 00 12 50 00 00 00 00 00 00 00 00 00 00 00 00	10 00 12 50 00
September 7	185	Old drawtender's house	", Cambridge-street	150 00 4 05 4 00	75 00 2 03 2 00	75 00 2 02 2 00 2 00
October 16	198	Thom your, you we would be and poleter and the second seco	Cambridge-street	80 00 00 80 00 00 80 00 00 80 00 00	100000	$\begin{array}{c} 1225 \\ 100 \\ 1 \\ 20 \\ 30 \\ 30 \\ 1 \\ 00 \\ 1 \\ 00 \\ 1 \\ 00 \\ 1 \\ 00 \\ 00 \\ 1 \\ 00 \\ 0 \\ $
November 29	225	Samuel Myers, old wood. Robert Holden, old wood. M. Fallon, old wood. William Dudley, old wood. David Murphy, old wood. Jere Downey, old wood.		0000000 1111111		2222222 2222222
		Mrs. E. M. Smith, old wood	Cambridge-street Harvard Essex-street West Boston	$\begin{array}{c}1&00\\88&90\\1&1&00\\17&25\\50&00\end{array}$	44 45 44 45 3 85 8 62 8 62 25 00	44 45 50 3 85 8 63 8 63 25 00

1006 -1005 40 10 Holl an 5.00 , Doutout Boeton and Cambridge Bridges (City of Boeton)

# CITY DOCUMENT NO. 40.

Street	Department -	BRIDGE	DIVISION.	
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8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 9 8 8 8 8	<b>\$412</b> 45	\$412 45
e 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>*</b> 824 <b>90 *</b> 412 45	\$1,870 42
2 00 1 1 1 00 1 1 1 00 1 1 1 00 1 1 00 1 0	\$824.90	\$\$24 90
Harvard	\$\$824         90         \$\$412         45           \$\$1,457         97         97         97	
Mr. Harris, old wood. John Coyn, old wood. G. A. A. Povey, old wood J. C. Doherty, old wood J. C. Doherty, old wood Michael Callahan, old wood Michael Callahan, old wood Michael Smith, old wood John Reilly, old wood John Shith, old wood	Received from City of Cambridge one-half of the amount paid by the City of Boston for weekly pay- rolls for reconstruction of Harvard bridge sidewalks.	Total
December 27	December 29	

Number of Times the Draws in the Boston and Cambridge Bridges have been Opened, and the Number of Vessels which have Dassad Through during the Vaar 1005

•	CAMB	CAMBRIDGE STREET.	CRAIGIE'	IE'S.	ESSEX STREET.	EX SET.	HARVARD	ARD.	NO. HARVARD STREET.		Prison	PRISON POINT, WEST BOSTON	WEST B	OSTON.	WEST	WESTERN AVENUE.
DATE.	ward fo raww Орепілда.	Zumber of Vessels passing through.	тали от Огами Ореніп⊈з.	Xumber of Vessels. passing through.	¥итрег оf Drя₩ Орепіцез.	Mumber of Vessels passing through.	итрег оf Draw Ореніпда.	Zumber of Vessels. Passing through.	Vamber of Draw Openings.	Number of Vessels. Развілд through.	Vamber of Draw Openings.	Уитрег оf Vessels. развілд through.	Изтрег оf Draw Орепінда.	Number of Vessels. Passing through.	Yumber of Draw Openings.	Number of Vessels. passing through.
January	12	71	116	202	10	15	56	35	8	15	17	31	30	59	12	19
February			56	96							26	46				
March	9	10	149	233	9	10	18	12	4	۲-	23	35	24	40	4	1
April	20	34	247	375	21	34	53	31	12	18	20	45	275	561	12	18
May	10	17	247	405	10	17	29	19	10	16	26	85	32	50	10	16
June	28	48	293	497	$^{26}$	46	72	50	20	32	61	39	47	75	20	33
July	17	26	357	619	17	24	43	22	15	23	19	43	108	199	15	23
August	œ	12			œ	12	30	21	90	12	36	110	128	313	œ	12
September	16	25			28	36	59	40	12	19	26	60	165	318	12	19
October	31	52					94	63	12	18	48	111	327	619	12	18
November	24	40					87	146	16	25	34	70	123	211	16	25
December	13	20					51	11	12	19	33	76	83	157	12	19
Total	185	301	1,465	2,427	126	194	592	513	129	204	327	751	1,342	2,662	133	209

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CITY DOCUMENT No. 40.

#### STREET DEPARTMENT.

## APPENDIX I.

## REPORT OF THE CITY ENGINEER ON SPECIAL WORK.

CITY OF BOSTON, ENGINEERING DEPARTMENT, 50 CITY HALL, February 1, 1906.

MR. CHARLES LOGUE,

Acting Superintendent of Streets:

SIR, — I herewith submit the following report of the work done for the Street Department during the year ending January 31, 1906:

## ATLANTIC-AVENUE RECONSTRUCTION.

In consequence of dredging in the dock between Central and India wharves and of the action of the propellers of the steamers using it, the filling under the sea-wall at the head of the dock had fallen away and caused a settlement of the street back of the wall at this point. The face of the wall had also slid forward leaving a large cavity about ten feet long in the middle of the wall. This cavity was filled with Portland cement concrete and stone ballast was deposited between the bulkhead and the front of the wall and a timber bulkhead about  $52\frac{1}{2}$  feet long was built on the street line. The work was done by Lawler Brothers under a contract and was completed early in July, 1905.

#### COTTAGE-STREET FOOT-BRIDGE.

This bridge was partially destroyed by ice early in 1904 and was closed to travel. A contract was made October 4, 1905, with the William S. Rendle Company for repairing the bridge, which required the driving of 166 new piles and placing new caps, stringers and planking in a large part of the bridge. The fences were painted for their entire length. The work is completed with the exception of painting the fences.

#### DOVER-STREET BRIDGE.

Plans and specifications were made for widening the drawway about 3 feet to 40 feet. A contract was made with the Cahill Construction Company for doing the work which has been commenced.

## CITY DOCUMENT NO. 40.

#### EAST BOSTON FERRIES.

Coal-pocket. — Plans and specifications were made for building a coal-pocket at the East Boston landing of the North Ferry to replace the present coal-shed. Bids were received October 9 and a contract was made with George Hayes, the lowest bidder, for doing the work. No work has yet been done under the contract as the coal-shed was in use.

Areas of Cabins. — The areas of the cabins and passageways on all the ferry-boats have been measured.

#### NORFOLK-STREET BRIDGE.

The contract for building the steel superstructure for this bridge was completed by the Boston Bridge Works early in May at a cost of \$12,123.47. The south roadway was opened to travel May 13, 1905, and the north roadway at a later date.

The through steel truss bridge was built across the railroad location on a skew, resting on the abutments, which were completed the previous December; the bridge consists of three riveted steel trusses each 111 feet long, centre to centre of bearings, and 20 feet deep, centre to centre of top and bottom chords. These trusses are spaced 23 feet 3 inches on centres; the floor beams are of steel, riveted to bottoms of posts, and support a floor system of hard pine stringers and 4-inch spruce deck plank, upon which is laid a wearing surface of 2-inch spruce. The centre truss divides the roadway into two parts, each 13 feet 6 inches in the clear; there are two sidewalks each 7 feet 4 inches wide, and the total width of the bridge from centre to centre of the outside trusses is 46 feet 6 inches. The floor beams overhang the trusses 3 feet 6 inches for the purpose of supporting water and gas-pipes. Provision is also made for a line of car tracks of the Boston Elevated Railroad, in each roadway, but the rails are not laid on the bridge at present.

## STAIRWAY FROM SUMMER-STREET BRIDGE TO A STREET.

Under a contract with the New England Structural Company, a flight of stairs has been built from the southerly walk of the bridge on Summer street to the westerly sidewalk below on A street. The work was completed early in May, 1905, at a cost of \$592.25. The foundations for the stairs were put in by D. J. Kiley and safety treads at the landings were furnished and placed by the Universal Safety Tread Company.

#### STREET DEPARTMENT.

#### ASSESSMENT STREETS.

Working plans, specifications and forms of contract were prepared and forwared to the Street Department for the construction of the following assessment streets:

Beaufort road, Centre street about 467 feet westerly. Clement avenue, Flora street to Stratford street. Flora street, Kenneth street to Clement avenue.

#### PLANS AND SPECIFICATIONS FOR REPAVING STREETS.

Preliminary surveys were made and working plans, specifications and forms of contract were prepared and forwarded to the Street Department for repaying the following streets:

Albany Street, Beach street to Kneeland street. Albany street, Massachusetts avenue about 225 feet northerly.

Allen street. Chambers street to Charles street.

\* Allston street, Brighton avenue to Washington street.

Ash street, Bennet street to Nassau street.

Atlantic avenue (westerly side), Broad street to Commercial street.

Bennet street, Ash street to Harrison avenue.

Blackstone street, Hanover street to Haymarket square.

*Bolton street*, C street to D street.

Boylston street, Massachusetts avenue to the Parkway.

Causeway street, Nashua street, across Lowell street.

Chatham row, State street to Chatham street.

Chatham street, Merchants row to Commercial street.

\* Chelsea street, Mt. Vernon street to Vine street. Clarendon street, Beacon street to Boylston street. Devonshire street, Milk street to Franklin street. Dorchester street, Broadway to Eighth street.

\* East First street, K street to L street. Eliot street, Tremont street to Washington street. Essex street, Chauncy street to Lincoln street. Harrison avenue, Bedford street to Essex street.

Harrison avenue, Beach street to Kneeland street.

Harrison avenue, Gloucester place to Decatur street.

Harrison avenue, East Springfield street to Northampton street.

\*Harvard street, Gleason street to School street.

\* Haverhill street, Haymarket square to Traverse street.

Hayward place, Washington street to Harrison avenue.

Huntington avenue, Dartmonth street to Boston & Albany R.R. bridge.

McLeun street, Chambers street to Blossom street.

Norfolk street, N. Y., N. H. & H. R.R. bridge to Morton street.

\* Plans only were forwarded.

#### CITY DOCUMENT NO. 40.

\*Norfolk avenue, Magazine street to Marshfield street. Northampton street, Shawmut avenue to Washington street. \*Northampton street, Washington street to Harrison avenue.

\*Northampton street, Washington street to Harrison avenue. St. Alphonsus street, Tremont street to Smith street. Salutation street, Hanover street to Commercial street.

\* Silver street, F street to Dorchester street. South street, Essex street to Beach street. Thomas Park, South Boston.

Tileston street, Hanover street across Unity street. \* Topliff street, Bowdoin street to Westville street. Tyler street, Beach street to Harvard street. Tyler street, Oak street to Curve street.

\* Warren street, Cambridge street to the Brookline line. West Broadway, at Dorchester street.

\* West First street, A street to Dorchester avenue. West Sixth street, C street to D street. Wiggin street, North Bennet street to Tileston street.

#### MISCELLANEOUS.

Preliminary surveys have been made and plans prepared for repaying the following streets:

A street, West First street across Richards street.

Albany street, Kneeland street to Boston & Albany R.R. bridge. Albany street, Broadway to Dover street.

Armandine street, Washington street to Milton avenue.

Beach street, Freeport street to Park street.

Blackstone street, North street to Clinton street.

Causeway street, Leverett street to Lowell street.

Centre street, Adams street to Dorchester avenue.

Congress street, Congress-street bridge to existing concrete base paving.

Congress street, Congress-street bridge to N. Y., N. H. & H. R.R. tracks.

Cross street, Fulton street to Commercial street.

Dorchester avenue, Congress street to Summer street.

Eliot street, Tremont street to Pleasant street.

Evans street, Morton street to Milton avenue.

Evelyn street, Norfolk street to Blue Hill avenue.

Fleet street, Hanover street to Commercial street.

Geneva avenue, Bowdoin street to Park street.

Guild row, Roxbury street to Dudley street.

Hampden street, Albany street to Dudley street.

Hanover street, Union street to Parmenter street.

Harvard avenue, Cambridge street to Commonwealth avenue.

Harvard street, Harrison avenue to Albany street.

Haverhill street, Traverse street to Causeway street.

Henry street, Paris street to Maverick square.

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K street, First street 437 feet northerly. Marlborough street, Clarendon street to Exeter street. Maverick square, westerly side. Nelson street, Norfolk street to Selden street. North street, Blackstone street to Commercial street. Northampton street, Tremont street to Shawmut avenue. Park street, Dorchester avenue to Adams street. Richmond street, Commercial street to Atlantic avenue. *River street*, Mattapan square to Hyde Park line. Robinson street, Adams street to Draper street. Roxbury street, Guild row to Shawmut avenue. Rutherford avenue, Chapman street to Cambridge street. Selden street, Milton avenue to Morton street. Stanwood street, Blue Hill avenue to Columbia road. Washington street, Elm street to Hanover street. Washington street, Dudley street to Arnold street.

#### MISCELLANEOUS PLANS, SPECIFICATIONS, ETC.

- Almont street, Dorchester. A plan was prepared showing a revised grade for a portion of the street, starting about 900 feet west of Blue Hill avenue and extending about 500 feet westerly.
- Atlantic avenue (westerly side), Broad street to Commercial street. Plans and specifications were prepared for widening the westerly roadway about 4.8 feet by taking a like amount from the sidewalk.
- *Freeport street* (easterly side). Plans and specifications were prepared for a granite rubble retaining wall about 350 feet long and from 11 feet to 13.8 feet high.
- Norfolk street, at Maseot street. A plan and specifications were prepared for a wooden bulkhead.
- Washington street, Townsend street to School street. Plans and grades were prepared for making the sidewalk uniformly 10 feet wide.

## GRADING STREET RAILWAY TRACKS.

Grades for tracks in the following streets have been determined and the necessary surveys made for determining the same.

#### Boston Elevated Railway Company.

Atlantic avenue, (westerly side).

Blue Hill avenue, Norfolk street to River street.

Boylston street, Massachusetts avenue to the Parkway. Broudway, at Dorchester street.

Centre street, South Huntington avenue to Pond street. Chelsea street, Saratoga street to Chelsea-street bridge. Chelsea street, Mt. Vernon street to Vine street.

Dorchester street, Broadway to Eighth street.

Eliot street, Pleasant street to Washington street. Guild row, Roxbury street to Dudley street. Hampden street, Albany street to Dudley street. Hanover street, Union street to Parmenter street. Harrison avenue, East Springfield street to Northampton street. Haverhill street, Haymarket square to Causeway street. Huntington avenue, Dartmouth street to Boston & Albany R. R. bridge. Maverick square, Westerly side. Northampton street, Tremont street to Shawmut avenue. Northampton street, Washington street to Shawmut avenue. Northampton street, Washington street to Harrison avenue. Prentiss street, Columbus avenue to Tremont street. *River street*, Mattapan square to Hyde Park line. Roxbury street. Guild row to Shawmut avenue. Shelby street, Lexington street to Saratoga street. Talbot avenue, Washington street to Dorchester avenue. Washington street, Elm street to Hanover street. Washington street, Dudley street to Arnold street. Washington street, Columbia road to Kilton street. Wushington street, Euclid street to Ashmont street. West Sixth street, C street to D street.

New York, New Haven & Hartford Railroad.

West First street, A street to Granite street.

Total length of single track grades = 10 miles.

Plans showing details of construction of streets and other structures have been made from time to time as required. The street book giving lengths and areas of pavements in accepted streets and public alleys has been corrected to February 1, 1905, and is now being brought up to February 1, 1906.

Respectfully submitted,

WILLIAM JACKSON, City Engineer. STREET DEPARTMENT - SMOKE INSPECTOR.

# APPENDIX J.

## REPORT OF CHIEF SMOKE INSPECTOR.

64 PEMBERTON SQUARE, BOSTON, MASS., February 1, 1906.

#### MR. CHARLES LOGUE,

#### Acting Superintendent of Streets:

DEAR SIR, — I herewith respectfully submit a report of the work performed by this office for the eleven months ending December 31, 1905.

There has been a noticeable improvement in the operation of power plants during the past year.

We have notified the offenders of the change in the smoke nuisance laws, with the result that the owners have made changes in their plants to meet with the requirements of the new law which will go into effect January 1, 1906, when the Board of Health will be charged with its enforcement.

#### BOILER APPLICATIONS.

During the year 241 applications have been received from the Building Department for boiler permits and were disposed of as follows:

Signed to use hard coal				227
New consumers adopted				- 14
				241

## SPECIAL REPORTS.

February 4. Report on communication received from Boston Terminal Company.

March 1. Report on complaint of Caroline M. Pigeon.

March 1. Report on complaint of A. B. Abbott.

March 1. Report on order from Common Council.

March 14. Report on complaint of Bay State Instalment Company, 725 Washington street.

March 14. Report on complaint of William M. Farrington against the Boston & Albany Railroad.

April 10. Report on communication from Chas. A. L. Reed.

June 15. Report on complaint of Walter M. Hatch & Co. July 17. Report on complaint of D. Eldridge.

July 21. Report on complaint of Hayes Robbins.

August 23. Report on communication from J. M. Dew-

bury.

August 23. Report on communication from E. M. Jones.

August 24. Report on communication from S. M. Singleton.

October 18. Report on complaint from property owners against the Boston & Maine Railroad.

November 17. Report on complaint of Frank Peaslee.

December 1. Report on complaint of A. Porter, 727 Boylston street.

December 1. Report on communication from H. P. Fair-field.

December 1. Report on order received from the Common Council.

## Nova Scotia Coal.

Importations of Coal from Nova Scotia at the Port during the Year ending January 31, 1906.

Months.	Tons.	Value.
February, 1905	40,969	\$71,911
March	68,755	113,139
April	53,470	92,682
May	51,200	64,000
June	50,800	63,500
July	39,000	48,850
August	55,037	69,858
September	48,050	60,063
October	41,150	51,438
November	50,100	62,752
December	60,252	108,767
January, 1906	81,174	150,008
Total	639,957	\$956,968

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## STREET DEPARTMENT --- SMOKE INSPECTOR. 301

Nova Scotia coal recorded at the Collector's office (Boston Custom House) for the year ending January 31, 1906, shows 639,957 tons as against 563,526 for the year ending January 31, 1905.

I submit a brief summary of work for the year ending December 31, 1905:

Number of applications for boiler permits received		241
Number of smoke preventers adopted		14
Number agreeing to burn hard coal		227
Number of short observations taken		100
Number of special reports		19
Number of special requests for observations received	ed	2

Respectfully submitted,

JOHN J. O'NEIL, Chief Smoke Inspector. CITY DOCUMENT NO. 40.

# APPENDIX K.

# REPORT OF THE CIVIL SERVICE CLERK.

BOSTON, February 1, 1906.

# MR. CHARLES LOGUE,

Acting Superintendent of Streets:

DEAR SIR, — I submit herewith a report of the work performed in connection with the Civil Service Commission, together with a statement of the force employed and eligible for employment for the year ending January 31, 1906:

Requisitions made .	•							105
Requisitions cancelled								8
Certifications returned w	ithout	t any	selec	tion k	eing	made		<b>22</b>
Number of men called for	or	•						318
Number of men certified								503
Number of men selected,	inclu	iding	veter	rans	•			277
Number of veterans appo			•		•		•	11
Number of men appointe	ed pro	ovisio	nally	undei	' civil	servi	ce	
rule number 36 .	•	•	•	**	•	•	•	6
Applications made for pa	romot	tion	•		•	•	•	15
Promotions allowed	•	•	•	•	•		•	14
Promotions allowed prov			•	•	•	•	•	1
Provisional appointments				$\mathbf{nt}$	•	•	•	<b>2</b>
Requests for permission				• -	•	•	•	4
Requests for permission					•	•	2	
Requests for permission	to rei	instat	e not	allow	ed	•	2	
							-	4

Transfers made from other City and State departments to the Street Department, with the approval of the Civil Service Commission as follows:

From	Bath Department					3
	City Messenger's Department					1
	Lamp Department		•			1
	Park Department			•		1
	Public Grounds Department .	•				1
	Schoolhouse Commission .	•	•	•	•	1
	Street Laying-Out Department	•	•	•		1
						-
	Total	•	•	•	•	9

### STREET DEPARTMENT --- CIVIL SERVICE.

Transfers from the Street Department to other City and State departments, with the approval of the Civil Service Commission as follows:

To Bath Dep	artment							1
Fire Dep	artment							1
Massach	isetts Hig	hway	Com	missic	m.			1
Total	• •	•	•			•	•	3

Number of discharges forwarded to the Civil Service Commission, 103.

The records of the department show that there are now 3,654 persons eligible for employment in the several divisions, and of that number 3,178 were upon the January, 1906, payrolls.

### Comparative Table showing the Number of Employees February 1, 1905, and February 1, 1906.

	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Street Watering.	Total.
February 1, 1905	8	916	877	$516 \\ 617$	353	151	16 <b>6</b>	10	2,997
February 1, 1906	9	934	890		392	168	163	5	3,178

Respectfully submitted,

JOHN J. QUINN, Civil Service Clerk.

CITY DOCUMENT NO. 40.

# APPENDIX L.

# FORMER SUPERINTENDENTS AND DOCUMENT NUMBERS OF ANNUAL REPORTS.

### Bridge Department before 1891.

Previous to 1886, under charge of City Engineer.

NAME.	Year.
Bartholomew M. Young	1886 to 1889
James H. Nugent	1889 to 1891

#### Bridge Department before 1891.

	NA	ME OF DOCUMENT.	For Year.	Year Published.	Number of Document.
Annual  	repo  	rt	1886 1887 1888 1889 1890	1887 1888 1889 1890 1891	29 26 29 22 *

\*Published in annual report, Executive Department.-Part I., City Document, No. 1, 1891.

#### Paving Department before 1891.

	Year.			
Enoch Patterson, Super Zephaniah Sampson Thomas Hunting, Super Alfred T. Turner, Charles Harris, Nehemiah T. Merritt, James J. Flynn, Charles Harris, Michael Meehan	"	ent	"	1831 to 1846 1846 to 1853 1853 to 1864
John W. McDonald, J. Edwin Jones,	"			1886 to 1889 1889 to 1891

# STREET DEPARTMENT.

	NAME OF DOCUMENT.	For Year.	Year Published.	Number of Document
Quarter	ly report		1851	6
			1851	29
Annual	report	. 1851	1852	2
		1852	1853	6
		. 1853	1854	6
		. 1854	1855	5
		1855	1856	3
		. 1856	1857	3
"		. 1857	1858	3
	44 · · · · · · · · · · · · · · · · · ·	. 1858	1859	5
" "	•• •••••••	1859	1860	6
"	"	1860	1861	5
" "	**	1861	1862	4
" "	"	1862	1863	3
	·· · · · · · · · · · · · · · · · · · ·	. 1863	1864	3
" "	··· · · · · · · · · · · · · · · · · ·	1864	1865	7
" "	۶۴	1865	1866	3
"	44	1866	1867	6
"		1867	1868	9
"	"	1868	1869	14
"		1869	1870	13
**	٠٠		1871	12
"	"	. 1871	1872	16
"	66	. 1872	1873	21
"	"	1873	1874	25
	6.6	1874	1875	27
**	66	1875	1876	30
		1876	1877	38
		1877	1878	29
	"	1878	1879	24
		1879	1880	24
		1880	1881	48
		. 1881	1882	51
		1881	1883	
		1883	1883	47
				46
		1884	1885	97
			1886	30
		1886	1887	16
		100,	1888	23
		1888	1889	30
		1889	1890	19
" "	"	1890	1891	*

## Paving Department before 1891.

\* Published in annual report, Executive Department, Part 11., City Document, No. 1, 1891.

# CITY DOCUMENT NO. 40.

	Year.		
Enoch Patterson, Sup	erinten	lent	. 1825 to 1831
Zephaniah Sampson,	"		. 1831 to 1837
Charles B. Wells,	"		. 1837 to 1856
Simeon B. Smith,	"		1856 to 1863
William H. Bradley,	"		. 1863 to 1883
Horace A. Moses,	"		. 1883 to 1885
Thomas J. Young,	44		
Seth Perkins,	44		. 1887 to 1889
Charles Morton,	" "		

## Sewer Department before 1891.

Sewer	Department	before	1891.
-------	------------	--------	-------

	NAME OF DOCUMENT.	For Year.	Year Published.	Number of Document.
Annual	report	1859	1861	11
"	··· · · · · · · · · · · · · · · · · ·	1860	1861	12
"	"	1861	1862	12
"	ss	1862	1863	13
"	"	1863	1864	11
" "	••	1864	1865	5
"	"	1865	1866	6
" "	"	1866	1867	8
"	"	1867	1868	13
"	"	1868	1869	11
44	"	1869	1870	3
"	"	1870	1871	11
"	"	1871	1872	.10
"	"	1872	1873	13
44	"	1873	1874	12
44	"	1874	1875	17
"	"	1875	1876	11
**	"	1876	1877	13
"	"	1877	1878	15
"		1878	1879	11
" "	"	1879	1880	16
" "	44	1880	1881	19
"	44	1881	1882	18
"		1882	1883	16
**		1883	1884)	
"	"	1884	1885	43
"	• •	1885	1886	58
44		1886	1887	69
"		1887	1888	81
**		1888	1889	129
	44	1889	1890	14
"		1890	1891	*

\*Published in annual report, Executive Department, Part II., City Document, No. 1, 1891.

# STREET DEPARTMENT.

# Health Department before 1891.

		sanitary.	
		NAME.	Year.
Ezra Forristall, Superi	ntend	ent	. 1853 to 1854
Joseph W. Coburn,			. 1854 to 1855
Ezra Forristall,	"		. 1855 to 1869
George W. Forristall,	"		. 1869 to 1890

## Health Department before 1891.

#### Sanitary.

	NAME OF DOCUMENT.	Year.	Year Published.	Number of Document.
Annual	report	1853		
"		1854	1855	6
" "		1855	1856	4
**	<i>د</i> د	1856	1857	4
" "		1857	1858	4
66	"	1858	1859	4
* *	"	1859	1860	5
		1860	1861	6
66	42	1861	1862	5
		1862	1863	5
		1863	1864	4
"		1864	1865	4
		1865	1866	8
**		1866	1867	7
		1867	1868	8
6.6		1868	1869	12
" "		1869	1870	
66	с.	1870	1871	10
		1871	1872	17
66	4.6	1872	1873	40
Annual	reports from 1873 to 1884, in-			
	e; the Superintendent's report			
was e	embodied in the report of the			
	l of Health	1885	1886	45
	report	1886	1887	22
66	~	1887	1888	16
"		1888	1889	23
66.		1889	1890	21
	44	1890	1891	*

\* Published in annual report, Executive Department, Part II., City Document, No. 1, 1891.

#### Commissioners of Cambridge Bridges before 1891.

(West Boston, Canal and Prison Point.)

NAME.	Year.
Frederick W. Lincoln, Commissioner for Boston Ezra Parmenter, Commissioner for Cambridge William J. Marvin, Commissioner for Cambridge	May 22, 1871, to March, 1901. June 14, 1871, to Jan. 31, 1883. March 28, 1883, to July 22, 1904.

NOTE. – Harvard bridge added in 1892. Essex street, Cambridge street, North Harvard street and Western avenue bridges to Cambridge were transferred from Street Department, July 1, 1898.

#### Commissioners of Cambridge Bridges before 1891.

	NAME OF DOCUMENT.	For Year.	Year Published.	Number o Document
Annual	report	1871	1872	19
	"· · · · · · · · · · · · · · · · · · ·	1872	1873	12
"	"	1873	1874	16
	"	1874	1875	23
"		1875	1876	20
"	"	1876	1877	12
	"	1877	1878	10
"		1878	1879	8
		1879	1880	12
\$ 6	"	1880	1881	8
	· · · · · · · · · · · · · · · · · · ·	1881	1882	15
	"	1882	1883	15
46	دد	1883	1884	19
		1884	1885	8
4.6	"	1885	1886	12
		1886	1887	19
	"	1887	1888	25
"		1888	1889	22
"	"	1889	1890	20
"	"	1890	1891	*

(West Boston, Canal and Prison Point.)

\* Published in annual report, Executive Department, Part I., City Document, No. 1, 1891.

#### Ferry Department before 1895.

#### NAME.

#### YEAR.

Board of Ferry Directors	1891	1891 May 1, 1895 July 1, 1895	
Thomas Kellough	May 1, 1895	July 1, 1895	

# STREET DEPARTMENT.

Terry Department before 1895.							
	NAN	ie of Document.	For . Year.	Year Published.	Number of Document.		
Annual	repor	:t	1870	1871	41		
**		· · · · · · · · · · · · · · · · · · ·	1871	1872	55		
"			1872	1873	81		
**			1873	1874	42		
	"		1874	1875	65		
	""		1875	1876	51		
		· · · · · · · · · · · · · · · · · · ·	1876	1877	53		
			1877	1878	49		
	""		1878	1879	60		
""	"		1879	1880	74		
			1880	1881	77		
"			1881	1882	72		
		· · · · · · · · · · · · · · · · · · ·	1882	1883	93		
	• •		1883	1884	76		
			1884	1885	72		
	٤.		1885	1886	28		
6.6	ډ.		1886	1887	12		
٤.			1887	1888	10		
			1888	1889	3		
• •	66	••••••	1889	1890	4		
			1890	1891	*		
			1891	1892	12		
	• •		1892	1893	11		
	. 6		1893	1894	11		
	6		1894	1895	11		

Ferry Department before 1895.

\*Published in annual report, Executive Department, Part I., City Document, No. 1, 1891.

#### Street Department since 1891.

Superintendent. Henry H. Carter, Member of American Society Civil Engineers. Resigned December 8, 1894. Charles R. Cutter, Acting Superintendent from December 8, 1894, to January 14, 1895. Member of the Boston Society Civil Engineers. Bertrand T. Wheeler, Superintendent from January 14, 1895, to February 4, 1896. Member of the Boston Society Civil Engineers. Benjamin W. Wells, Superintendent from February 4, 1896, to February 1, 1900. Bertrand T. Wheeler, Superintendent from February 2, 1900, to November 25, 1901. Member of the Boston Society Civil Engineers. Resigned November 25, 1901. William Jackson, Acting Superintendent from November 25, 1901, to January 14, 1902. Member of American Society Civil Engineers. Guy C. Emerson, Deputy Superintendent in charge of the Department, from November 25, 1901, to January 14, 1902. Member of the Boston Society Civil Engineers. James Donovan, Superintendent from January 14, 1902, to January 2, 1906. Resigned January 2, 1906. Charles Logue, Acting Superintendent from January 2, 1906, to the present time. BRIDGE DIVISION. - John A. McLaughlin, Deputy Superintendent until June 1, 1895. BRIDGE DIVISION. - John P. Wise, Deputy Superintendent from June 1, 1895, to February 14, 1896. BRIDGE DIVISION. - William H. Carberry, Deputy Superintendent from February 14, 1896, to February 3, 1900. BRIDGE DIVISION, - Walter Reed, Deputy Superintendent from February 5, 1900, to January 22, 1902. BRIDGE DIVISION. - Joseph P. Lomasney, Deputy Superintendent from January 22, 1902, to December 30, 1905. Resigned December 30, 1905. BRIDGE DIVISION. - Daniel J. Byrne, Acting Deputy Superintendent from January 3, 1906, to the present time. FERRY DIVISION .- Thomas Kellough, Deputy Superintendent from July 1, 1895, to February 14, 1896. FERRY DIVISION. - William F. McClellan, Deputy Superintendent from February 14, 1896, to February 3, 1900. FERRY DIVISION. - Joseph J. Dennison, Deputy Superintendent from February 5, 1900, to January 22, 1902. FERRY DIVISION. - William J. Donovan, Deputy Superintendent from January 22, 1902, to January 2, 1906. Resigned January 2, 1906, and appointed Acting Deputy Superintendent from January 2, 1906, to the present time. PAVING DIVISION. - Charles R. Cutter, Deputy Superintendent untit January 24, 1895. PAVING DIVISION .- Darius N. Payson, Deputy Superintendent from January 24, 1895, to March 1, 1896. PAVING DIVISION. - John J. Kelly, Deputy Superintendent from March 1, 1896, to February 3, 1900. PAVING DIVISION. - Darius N. Payson, Deputy Superintendent from February 5, 1900, to January 24, 1902.

PAVING DIVISION. – Joshna Atwood, 3d, Acting Deputy Superintendent from January 24, 1902, to March 26, 1902.

PAVING DIVISION. – Henry V. Macksey, Deputy Superintendent from March 26, 1902, to December 2, 1905. Resigned December 2, 1905.

ber 2, 1905, to the present time.
SANITARY DIVISION George W. Forristall,* Deputy Superintendent.
SANITARY DIVISION. – Philip A. Jackson, Acting Deputy Superintendent from January 16, 1894, to February 1, 1895.
SANITARY DIVISION Charles A. Young, Deputy Superintendent from February 1895, to March 1, 1896.
SANITARY DIVISION. – Patrick O'Shea, Deputy Superintendent from March 1, 185 to February 3, 1900.
SANITARY DIVISION. – Charles A. Young, Deputy Superintendent from February 1900, to January 22, 1902.
SANITARY DIVISION.— Daniel P. Sullivan, Deputy Superintendent from January 2 1902, to January 2, 1906; resigned January 2, 1906, a appointed Acting Deputy Superintendent from January to the present time.
SEWER DIVISION.— Henry W. Sanborn, Deputy Superintendent until July 10, 188 Member Philadelphia Society Civil Engineers.
SEWER DIVISION. – Charles R. Cutter, Deputy Superintendent from July 10, 1896, February 3, 1900. Member of the Boston Society Civil Engineers.
SEWER DIVISION. – Guy C. Emerson, Deputy Superintendent from February 5, 196 to November 25, 1901, and from January 14 to Ja uary 22, 1902. Member of the Boston Society Civil Engineers.
SEWER DIVISION.— Henry W. Sanborn, Acting Deputy Superintendent from Nove ber 25, 1901, to January 14, 1902. Member Philadelphia Society Civil Engineers.
SEWER DIVISION. — George Phillips, Deputy Superintendent from January 22, 190 to January 2, 1906; resigned January 2, 1906, and appoint Acting Deputy Superintendent from January 2, 190 resigned January 18, 1906.
SEWER DIVISION. – Edgar S. Dorr, Acting Deputy Superintendent from January 1 1906, to the present time. Member of the Boston Soclety Civil Engineers.
STREET CLEANING DIVISION.—Philip A. Jackson, Deputy Superintendent un
March 22, 1895.
STREET CLEANING DIVISION.—Benjamin M. Cram, Deputy Superintendent from March 22, 1895, to March 1, 1896.
STREET CLEANING DIVISION. — Joshua Atwood, 3d, Deputy Superintendent fro March 1, 1896, to February 3, 1900. Member of the Boston Society Civil Engineers.
STREET CLEANING DIVISION.— Frank II. Haynes, Deputy Superintendent fro
February 5, 1900, to April 16, 1901; resign April 16, 1901.
STREET CLEANING DIVISION Frank C. Shepard, Deputy Superintendent free April 16, 1901, to January 22, 1902.
STREET CLEANING DIVISION. — Joseph J. Norton, Deputy Superlintendent fro January 22, 1902, to January 2, 1906; resign January 2, 1906, and appointed Acting Depu Superintendent from January 2, 1906, to t present time.
STREET WATERING DIVISION. – M. Edward Libby, Deputy Superintendent free March 6, 1895, to March 1, 1896.
STREET WATERING DIVISION. — Thomas J. Finneran, Deputy Superintendent from March 1, 1896, to February 3, 1900.

uary 22, 1902, to January 2, 1906; resigned January 2, 1906, and appointed Acting Deputy Superintendent from January 2, 1906, to the present time. BOSTON AND CAMERIDGE BRIDGES. – Henry H. Carter, ex-officio, Commissioner for Boston, until December 8, 1894. Charles R. Cutter, ex-officio, Acting from December 8, 1894, to January 14, 1895. Betrand T. Wheeler, ex-officio, Acting from Jecumber 8, 1894, to January 14, 1895. Betrand T. Wheeler, ex-officio, to May 26, 1898. <sup>4</sup> Benjamin W. Wells, from February 4, 1896, to February 1, 1900; ex-officio, to May 26, 1898. <sup>4</sup> Bertrand T. Wheeler, from February 2, 1900, to November 25, 1901. Guy C. Emerson, from January 14, 1902, to October 28, 1904. Joseph P. Lomasney, from October 28, 1904, to December 30, 1905; resigned December 30, 1905. Charles Logue, from January 2, 1906, to the present time. William J. Marvin, Commissioner for Cam- bridge. <sup>4</sup> George M. Clukas, July 26, 1904, to the	STREET WATERING DIVISION. – Frederick Hammond, Deputy Superintendent from February 5, 1900, to January 22, 1902.
<ul> <li>Boston, until December 8, 1894.</li> <li>Charles R. Cutter, ex-officio, Acting from December 8, 1894, to January 14, 1895.</li> <li>Betrand T. Wheeler, ex-officio, from January 14, 1895, to February 4, 1896.</li> <li>Benjamin W. Wells, from February 4, 1896, to February 1, 1900; ex-officio, to May 26, 1898.<sup>4</sup></li> <li>Bertrand T. Wheeler, from February 2, 1900, to November 25, 1901.</li> <li>Guy C. Emerson, from November 25, 1901, to January 14, 1902.</li> <li>James Donovan, from January 14, 1902, to October 28, 1904.</li> <li>Joseph P. Lomasney, from October 28, 1904, to December 30, 1905; resigned December 30, 1905.</li> <li>Charles Logue, from January 2, 1906, to the present time.</li> <li>William J. Marvin, Commissioner for Cambridge.<sup>4</sup></li> <li>George M. Clukas, July 26, 1904, to the</li> </ul>	STREET WATERING DIVISION. – Ambrose Woods, Deputy Superintendent from Jan- uary 22, 1902, to January 2, 1906; resigned January 2, 1906, and appointed Acting Deputy Superintendent from January 2, 1906, to the present time.
present time.	<ul> <li>Charles R. Cutter, ex-officio, Acting from December 8, 1894, to January 14, 1895.</li> <li>Betrand T. Wheeler, ex-officio, from January 14, 1895, to February 4, 1896.</li> <li>Benjamin W. Wells, from February 4, 1896, to February 1, 1900; ex-officio, to May 26, 1898.*</li> <li>Bertrand T. Wheeler, from February 2, 1900, to November 25, 1901.</li> <li>Guy C. Emerson, from November 25, 1901, to January 14, 1902.</li> <li>James Donovan, from January 14, 1902, to October 28, 1904.</li> <li>Joseph P. Lonnaeney, from October 28, 1904, to December 30, 1905; resigned December 30, 1905.</li> <li>Charles Logue, from January 2, 1906, to the present time.</li> <li>William J. Marvin, Commissioner for Cam-</li> </ul>

\* See Chap. 467, Acts of 1898. † Died July 22, 1904.

## Street Department.

NAME OF DOCUMENT.						For Year.	Year Published.	Number of Document.
Innual		Executiv	e Dept.	Part	п.,	1891	1892	36
	"	"			••	1892	1893	34
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4.6	**	**				1895	1896	<b>29</b>
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		4.6		44		1899	1900	38
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		**	"			1901	1902	38
						1902	1903	40
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		4.4	" "			1904	1905	40 .
44			"			1905	1906	40





