

ANNUAL REPORT

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PRESIDENT

OF THE

BOROUGH OF THE BRONX

1913

ANNUAL REPORT

OF THE

PRESIDENT OF THE BOROUGH  
OF THE BRONX

FOR THE YEAR 1913

THE O'CONNELL PRESS  
176 Park Row  
New York



March 4th, 1915.

Hon. John Purroy Mitchel,  
Mayor, City of New York.

Sir:—

Pursuant to Section 1544 of the Greater New York Charter, I hereby transmit to you the Annual Report of the operations of the Office of the President of the Borough of The Bronx, for the year ending December 31, 1913.

Very truly yours,

(Signed) DOUGLAS MATHEWSON,  
President of the Borough of The Bronx.

December 31, 1913.

Hon. Cyrus C. Miller,  
President, Borough of The Bronx.

Dear Sir:

I beg to submit herewith a report of the work of the Office of the Consulting Engineer during the year 1913.

As the efforts of this office are directed largely to the examination and study of such matters affecting the Borough of The Bronx and the city at large as the Borough President refers to it for consideration and advice, this report is a condensed statement of the activities of the Borough President in these matters.

#### Office Records.

In order to facilitate reference, and to eliminate duplication and introduce uniformity in the routine of recording each step in the proceedings for public improvements, from the initiation of proceedings to the completion of the improvements, the forms of record cards originally devised for the use of this office alone have been modified, and have now replaced those used in the Chief Engineer's office and in the Bureau of Information. The titles, index numbers and several other items are filled out in triplicate by the same clerk, and when completely filled out, the card gives a condensed history of the improvement.

To facilitate the decision of questions which frequently arise about the maintenance and reconstruction of existing highway and railroad bridges, a record of all the bridges in the borough has been compiled. It contains a history and a description of each bridge, the laws under which it was erected and who is to maintain it. Since the bridges in this borough, of which there are about 150, were put up at various times, and under various legislative and other acts and agreements, the value of such a record is obvious, and its utility has already been demonstrated on several occasions.

The frequent applications of gas, electric and subway companies for permits to open streets, and several complaints from residents that the companies refused to extend their mains or make house connections, have led to a thorough investigation of the whole franchise history of these companies. The data so collected regarding each company have been compiled, and the records filed. Besides enabling the Borough President to act properly on the applications and complaints, and, as a member of the Board of Estimate and Apportionment, in compelling these companies to pay their just franchise taxes, these records will form a valuable adjunct to the compilation of the records in the Bureau of Sub-surface Structures.

#### Library.

In the Library and Bureau of Information, shelves have been erected along the walls, and a number of bookcases have been located in other parts of the room. The collection, which now contains about 1,700 bound volumes and 200 pamphlets, besides current numbers and bound volumes of technical periodicals, is intended for reference mainly. Books that are constantly needed by particular bureau are left in those bureaus, but a record is kept in the library so that they may be easily found when wanted by others.

The library has demonstrated its value in the studies and investigations of technical, local and general municipal questions arising in the Borough Presi-

dent's Office. It is only through the medium of a complete, orderly and easily accessible library that the great amount of valuable information contained in the departmental and other reports can really become available for use. A card catalogue is now in process of preparation.

#### **Borough Affairs.**

The removal of the posts that support the New York, Westchester and Boston Railway Viaduct over Boston Road, and which form a dangerous obstruction to travel, has been the subject of controversy since 1910. While the present structure has been approved by the city authorities, it is not strong enough to carry the much heavier traffic for which the other bridges on this Road have been designed since it came under the control of the New Haven Railroad Company. After many suggestions from engineers connected with this and with other boroughs and with the Public Service Commission, a type of viaduct for this difficult crossing was evolved in this office, in which a small number of posts are so located as to be out of the way of the currents of traffic from any one of the seven converging streets; it is estimated to cost 25 per cent. less than the unsightly two-span skew truss overhead railroad bridge, of which the Railroad Company was willing to pay half the cost; and it will do away with the necessity for the large central pier in the way of all traffic which the truss bridge required. No agreement has been reached because the Corporation Counsel holds that the Railway Company should pay for the rebuilding of the entire structure. The Borough President, with the authority of the Board of Estimate and Apportionment, attempted to remove the offending posts, but was enjoined from doing so by the Railway Company.

A plan was also evolved in this office for relocating some of the elevated railroad posts at Boston Road and Tremont Avenue. This will permit Tremont Avenue cars to run straight across Boston Road, while the Interborough surface cars from Boston Road can then run on the present Union Railway tracks to Devoe Avenue. The congestion caused by the existing crossing at this point will be greatly relieved. The improvement is estimated to cost \$7,500.

After negotiations lasting over two years, a form of agreement about the viaduct carrying 241st Street across the railroad tracks and the Bronx River, to Wakefield Avenue, Yonkers, was drawn up, which was satisfactory to the City of Yonkers, to the New York Central Railroad Company and to the New Haven Railroad Company. Criticisms by the Corporation Counsel have led to a revision of the plans by which the grades were somewhat reduced, the structure was widened from 50 feet to 80 feet, and several other improvements were made. The matter is now in the hands of the Corporation Counsel and of the Comptroller to make a report to the Board of Estimate and Apportionment.

The attitude of the New York Central Railroad Company in insisting that the City pay a substantial sum for the easement over the New York and Harlem Railroad tracks at Fordham Road has led the City to ask the Public Service Commission to determine whether the General Railroad Law for opening new streets across the railroad could not be applied to this case. The Commission decided that the General Railroad Law did not apply because this crossing was specifically provided for by Chapter 731, Laws of 1905, and by Chapter 736, Laws of 1907. Meanwhile proceedings for condemning the overhead rights of the Railroad Company have been instituted; and the maps have been approved and are now in the hands of the Corporation Counsel.

The proposed improvements on Gun Hill Road between White Plains Avenue and Webster Avenue comprise the widening of the bridge over the tracks of the same railroad. Although the extension of the Third Avenue Elevated

Railroad demands the early reconstruction of this bridge, it has been deemed advisable to wait until it is determined whether the Railroad Law can be invoked in this case to make the railroad share the expense of the structure.

With regard to the reconstruction and the maintenance of old bridges, and the construction of new ones, it is very desirable to settle upon some policy which shall be uniform, at least in the case of each individual railroad, and not to permit each improvement to be made the subject of controversy and haggling. Only in that way is it possible to get rid of the delays to necessary public improvements, which have been so annoying.

In the plans for new bridges and for the reconstruction of old ones, it has become the policy in this office to insist that all pipes, ducts and other sub-surface structures be put below the floor; and that, wherever possible, none of the structural features are to appear above the surface, on the idea that the bridge is a continuation of the highway, rather than a mere crossing, and is to be just as free from surface obstructions.

Since the New York Central Railroad agreed to give up the strip of land which permits the widening of 161st Street along the Mott Haven Yard, a new map for the improvement of the whole street from Macomb's Dam Bridge to Morris Avenue has been approved by the Board of Estimate and has been filed. The City has acquired title to all the land needed to carry out the improvement, with the exception of a strip about 35 feet wide on the south side of 161st Street from the Concourse to Sheridan Avenue, and a triangular piece on the southeast corner of 161st Street and Sheridan Avenue. Since signatures to a petition for widening could not be obtained, the Board of Estimate has initiated proceedings for acquiring title.

#### General.

As a member of two Commissions, and at the regular conferences among the Consulting Engineers of the several boroughs, your Engineer has had under consideration several important questions affecting the City at large.

After the Commissioner of Water Supply, Gas and Electricity had received bids for the construction of a filtration plant in the east basin of the Jerome Park Reservoir, the Board of Estimate appointed, on February 13th, an Advisory Board of Consulting Engineers, to investigate the necessity for filtering the Croton water, and the adequacy of the plans which had been prepared by the Department on the advice of eminent consulting engineers. This Commission consisted of Messrs. Nicholas S. Hill and John H. Gregory, Consulting Engineers in private practice, the Consulting Engineers of Manhattan and The Bronx, and John H. Frazee of the Finance Department. After a thorough study of the whole question, the majority of the Board reported that filtration, while not urgent, was necessary as a safeguard; and that the method of filtration, the structures and the location shown on the plans of the Department, were best suited to the conditions. The Board of Estimate, however, rescinded the appropriation of \$8,690,000 which it had previously made for the purpose, and appropriated \$50,000 for further study by the Department.

The studies of the Metropolitan Sewerage Commission relative to the pollution of the Harbor waters are coming to a close, and the Commission has promised to submit early in 1914 its final report, and to surrender the data accumulated by it, as the law creating the commission requires.

The Greater New York Charter directs that each Borough President shall have cognizance and control of all subjects relating to the public sewers and drainage of his borough; shall initiate the making of all plans, and shall have charge of the construction of all sewers in his borough. The Board of Estimate, by a resolution adopted June 26th, 1913, created the New York Sewer Plan

Commission, to be made up of the Chief Engineer of the Board of Estimate and of the Consulting Engineers of the several boroughs. This commission is to take over the studies and other data of the Metropolitan Sewerage Commission, to continue the experiments and studies in sewage disposal which have been carried on during the last few years in some of the boroughs, and to act on a uniform policy in passing upon questions affecting the future construction of sewers and sewage disposal plants. A number of conferences have been held, and a study has been made in this office of a very promising method of solving the Harbor pollution problem.

An examination of the tentative specifications for many of the materials used by the several boroughs and by some of the city departments, which the Bureau of Standardization of Supplies had submitted in eleven reports to the Board of Estimate for approval, has revealed many serious defects in them. The Board has, therefore, instructed the head of the Bureau of Standardization to confer with the Consulting Engineers regarding the specifications, and these conferences have resulted in substantial changes in the substance and in the form of the specifications.

The above is only one phase of the very important work which the Consulting Engineers of the several boroughs are doing in the way of introducing uniformity in the plans and details of structures, and in methods of procedure. In this way the freedom of action given by the Charter to each borough is accompanied by the greatest economy and by harmony in the settlement of the questions which affect more than one borough. The several officials in each borough who are occupied with the details of their work have not the time to come together to compare views. On the other hand, a separate body created for the purpose of standardization cannot be sufficiently familiar with local details to render much advice on the many questions that are constantly coming up. The Consulting Engineers who possess this familiarity with local affairs have demonstrated the value of the exchange of views at their numerous conferences and this exchange of views should be encouraged among all city employees doing similar work.

#### **American Road Builders' Convention.**

As the representative of this Borough, your Consulting Engineer attended the Eleventh Annual Convention of the American Road Builders' Association held in Philadelphia between the 9th and the 12th of December. The convention was attended by about 3,200 members and delegates from different parts of this country and Canada.

Various phases of road building in practice throughout the country were discussed by the delegates. The methods of construction and maintenance vary to some extent in different parts of the country, depending largely on the kinds of materials available, but the fundamental principles followed in the practice of road building are becoming more and more uniform. The practice is now general throughout the country to treat roads with different kinds of oil in some form or other, either by mixing the oil with the aggregate in the construction of the road, or else by applying it to the roadway after it is built.

The greatest benefit from this and similar conventions is derived not from the reading and discussion of the papers, because these consist very largely of repetitions, in various forms, of ideas and methods which are familiar to most road engineers; but in the intercourse and informal discussions and exchange of views among the delegates outside of the convention hall.

One feature of the convention which is new was the presentation of a paper by a prominent contractor, discussing the relation of the engineer, the inspector and the contractor. This relation was discussed by contractors and engineers



from their individual points of view. Such discussions help to remove the differences which exist between contractors and engineers regarding the preparation of specifications and the carrying out of the work. For some years past there has been a tendency among engineers and contractors to come to a better understanding on these matters.

The exhibit of road building machinery was very complete and instructive. It consisted of all kinds of appliances that are or can be used in the construction of highways.

That men who are in direct charge of highway maintenance are taking an active interest in modern methods of road building was manifested by the fact that a number of them attended this convention. It is the opinion of your Engineer that attendance at conventions of this character should be encouraged, if it does not involve too great an expenditure of time and money.

Yours truly,

AMOS L. SCHAEFFER,  
Consulting Engineer.

February 9, 1914.

Hon. Douglas Mathewson,  
President, Borough of The Bronx.

Dear Sir:

I transmit herewith report of the transactions of the Local Boards in the Borough of The Bronx, for the year 1913.

Yours truly,

RICHARD W. HILL,  
Secretary.

**LOCAL BOARDS—BOROUGH OF THE BRONX. REPORT FOR THE YEAR 1913.**

No. of Petitions Considered—				No. of Improvements Initiated—				Kind.
1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	
15	23	17	21	12	17	6	14	For sewer construction.
1	4	7	9	1	4	3	9	For receiving basins.
7	12	1	1	5	9	..	1	For bituminous pavement.
..	4	..	..	..	3	..	..	For asphalt block paving.
11	35	15	18	6	23	8	14	For regulating and grading.
3	3	3	5	2	3	2	4	For sheet asphalt paving.
19	12	1	5	6	6	1	1	For map changes.
1	1	2	1	..	5	2	1	For erecting guard rail and repairing sidewalks.
12	12	10	13	5	3	5	6	For acquiring title.
4	4	1	3	1	..	2	1	For granite block paving.
1	3	2	1	..	3	2	1	For flagging.
1	1	..	..	..	..	..	..	For viaduct.
..	4	1	1	..	3	..	1	For redressed granite block paving.
..	..	1	..	1	..	..	..	For filling in sidewalk.
..	..	1	..	..	..	1	..	For filling in sunken lots.
..	..	..	3	..	..	..	..	For vesting title.
..	..	..	1	..	..	..	..	For constructing drain.
75	118	62	82	39	79	32	53	

Total number of petitions presented during the year—337.

Respectfully submitted,  
RICHARD W. HILL,  
Secretary.

July 10, 1914.

Hon. Douglas Mathewson,  
President of the Borough of The Bronx.

Sir:

I have the honor to submit the following report of the transactions of the Department of Public Works for the year ended December 31, 1913.

Respectfully,

JOHN G. BORGSTEDE,  
Commissioner of Public Works.

Mr. Thomas W. Whittle,  
Commissioner of Public Works,  
Borough of The Bronx.

Dear Sir:

I transmit herewith summary of the work performed during the year 1913, by the Bureau of Highways-Maintenance.

Respectfully,

J. STEWART WILSON,  
Superintendent of Highways.

January 29th, 1914.

Summary of work performed and materials consumed in connection therewith during the year 1913:

#### Macadam Pavement.

Macadam surfaced with screenings .....	Sq. yds.	28,977
Macadam repaired .....	Sq. yds.	108,756
Macadam resurfaced with stone and screenings .....	Sq. yds.	158,709
Macadam laid (new) .....	Sq. yds.	2,400
Bituminous macadam repaired .....	Sq. yds.	6,862
Experimental pavement on White Plains Avenue repaired ...	Sq. yds.	305

Aside from repair work macadamized streets were cleaned as often as required to keep them in sanitary order. Some of these streets which are built up had to be cleaned twice a week and sometimes more often. At the end of the year there were 126 miles of macadam roadway.

#### Oil Applications.

The surface of macadamized streets and other main earth thoroughfares treated during the year is as follows:

Earth roads treated with asphalt oil .....	Sq. yds.	1,029,374
Macadam streets treated with tar oil .....	Sq. yds.	958,773
Macadam streets treated with asphalt oil .....	Sq. yds.	38,057
Bituminous treatment on the Concourse .....	Sq. yds.	14,259
Earth roads treated with Glutrin .....	Sq. yds.	9,911

Road oils have been used quite extensively during the past four years and each applications seems to have added resistance and durability to the macadam pavements. Road beds of this kind which have been treated with oil do not unravel so readily as was the case when water was used as a dust layer; this change has resulted in decreasing the cost of maintenance.

### Pavement.

Granite, tar and gravel joints, repaired .....	Sq. yds.	2,734
Granite, tar and gravel joints and base repaired .....	Sq. yds.	188
Granite on concrete and grout joints, repaired .....	Sq. yds.	55
Granite on sand repaired .....	Sq. yds.	40,638
Wood block repaired .....	Sq. yds.	730
Asphalt block including base laid .....	Sq. yds.	50
Asphalt block surface, repaired .....	Sq. yds.	4,241
Concrete pavement surface, repaired .....	Sq. yds.	5

### Materials.

Materials used in conjunction with the foregoing described work are as follows:

Trap rock, 16,972 cubic yards; Screenings, 10,508 cubic yards; Ashes, 2,480 cubic yards. Grits, 6,440 cubic yards; Sand, 390 cubic yards; Asphalt Road Oil, 362,608 gallons; Tar Road Oil, 344,765 gallons; Tarvia A, 12,971 gallons; Glutrin, 6,011 gallons.

### Earth Roads.

Earth roads covering a distance of 150 miles, an average of 30 feet in width, also including crossings and sidewalks were cleaned, shaped up, freed of obstructions and kept in sanitary condition. Ashes were also spread over a piece of roadway covering an area of 3,667 square yards.

### Materials Hauled, Used and Disposed of.

Earth and stone hauled to work .....	Loads	19,663
Refuse material carted to dump .....	Loads	29,472

### Crosswalks.

Crosswalks repaired .....	Sq. feet	29,007
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### Curbstone.

Blue stone curb reset .....	Lin. feet	3,514
Native stone curb set .....	Lin. feet	1,075

### Sidewalks.

Sidewalk flagging repaired .....	Sq. yds.	2,067
Ash walks formed .....	Sq. yds.	45,819
Earth walks formed .....	Sq. yds.	4,866
Concrete walk repaired .....	Sq. yds.	15
Plank walks repaired .....	Sq. yds.	3,983

### Bridges.

Bridges cleaned daily .....	Sq. yds.	26,254
Bridge flooring repaired .....	Sq. yds.	21,329

### Steps.

Steps connecting public highways, cleaned daily .....	Sq. yds.	2,680
Steps repaired .....	Sq. yds.	115

**Guard Rail.**

Wooden rail repaired .....	Lin. feet	3,359
Iron rail reset .....	Lin. feet	13

**Gutters.**

Asphalt block gutters repaired .....	Sq. feet	12,024
Granite block gutters repaired .....	Sq. feet	8,520
Native stone gutters repaired .....	Sq. feet	11,966
Earth gutters deepened and formed .....	Sq. feet	1,107

**Shop Work.**

Work performed by mechanics employed in the repair shop, includes repairing and sharpening tools required to equip the road force; repairing, overhauling and painting sprinkling trucks, carriages, wagons, tool carts, street signs, putting in order steam rollers, automobiles, etc.

The following shows the number of permits issued, renewed and revoked during the year:

Permits issued .....	11,607
Permits renewed .....	2,885
Permits revoked .....	22

**Revenue During 1913.**

For permits issued .....	\$19,274.70
For taking up pavements .....	41,283.43
For redemption of seized incumbrances	37.70
	<hr/>
	\$60,595.83

J. STEWART WILSON,  
Superintendent of Highways.

Hon. Thomas W. Whittle,  
Commissioner of Public Works,  
Borough of The Bronx.

Dear Sir:

I herewith present the following report of the transactions of the Bureau of Public Buildings and Offices, during the year 1913, which I respectfully submit for your consideration.

Yours respectfully,

ROGER W. BLIGH,  
Superintendent.

The following buildings and offices in care of this bureau have been kept clean and in repair for the year ending December, 1913.

Municipal Building—Crotona Park.

1st District Municipal Court House—Main Street, Westchester.

2nd District Municipal Court House—162nd Street and Brook Avenue.

6th District City Magistrates Court—162nd Street and Brook Avenue.

8th District City Magistrates Court—This court is located at 181st Street and Boston Road, since September 28th, 1913, formerly located at Main Street, Westchester.

Branch Office, Bureau of Highways—507 Tremont Avenue.

Branch Office, Bureau of Sewers—1517 Williamsbridge Road.

Branch Office, Bureau of Sewers—1519 Williamsbridge Road.

Branch Office, Bureau of Sewers—242nd Street and Broadway.

Repair Shop and Stables, Bureau of Highways—181st Street, Webster and Park Avenues.

Repair Shop and Stables, Bureau of Sewers—181st Street and Webster Avenue.

Interior Bath—Elton Avenue and 156th Street.

Two (2) Floating Baths—131st Street and East River, from July 5th, 1913 to September 29th, 1913.

The following is the working force of this bureau for the year 1913:

**Regular Employees.**

1 Superintendent	2 Carpenters
1 Clerk	1 Housesmith
1 Telephone Operator	18 Laborers
1 Attendant	3 Watchmen
1 Foreman	36 Female Cleaners
1 Assistant Foreman	

**Temporary Employees.**

- 2 Engineers
- 3 Firemen, from October 23rd, 1913 to December 31st, 1913.
- 4 Firemen, from January 1st, 1913 to May 3rd, 1913.

The following is the working force at the Interior Bath, for the year 1913:

- 2 Engineers
- 3 Firemen
- 3 Laborers
- 2 Male Attendants
- 2 Female Attendants
- 2 Female Cleaners

The following working force was employed temporarily on the Floating Baths, at 131st Street and East River.

- 4 Male Attendants
- 4 Female Attendants
- 2 Watchmen

The following has been the monthly attendance at the Interior Public Bath, 156th Street and Elton Avenue, for the year 1913:

	Male.	Female.		Male.	Female.
January .....	23,764	5,321	August .....	60,739	24,877
February ....	19,718	3,986	September ..	50,532	17,319
March .....	29,187	8,706	October .....	44,233	12,024
April .....	32,429	6,892	November ...	35,708	4,901
May .....	41,029	9,683	December ...	26,586	2,529
June .....	42,959	21,576			
July .....	55,830	24,510	Total .....	462,714	142,324

The attendance at the two (2) Floating Baths, during the season of 1913, has been as follows:

	Male.	Female.
July .....	110,902	41,400
August .....	62,271	22,677
September ....	46,610	26,826
Total .....	219,783	90,903

Amounts expended for Supplies, etc., during the year 1913:

**Supplies.**

Fuel Supplies .....	\$3,878.66
Office Supplies .....	1,618.95
Laundry, Cleaning and Disinfecting Supplies .....	116.73
General Plant Supplies .....	185.30
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	\$5,799.64

**Equipment.**

Executive, Office, Baths and Comfort Stations .....	1,410.89
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<b>Wearing Apparel.</b>		
Baths and Comfort Stations .....		\$18.00
<b>General Plant Equipment.</b>		
Office Buildings .....	\$277.09	
Baths and Comfort Stations .....	163.53	
		<u>440.62</u>
<b>Building Materials.</b>		
Office Buildings .....	492.32	
Baths and Comfort Stations .....	56.77	
		<u>549.09</u>
<b>General Plant Materials.</b>		
Office Buildings .....		1.50
<b>Contract or Open Order Service.</b>		
Office Buildings .....	2,318.46	
Baths and Comfort Stations .....	1,574.00	
		<u>3,892.46</u>
<b>Carfares.</b>		
Office Buildings .....	74.15	
Baths and Comfort Stations .....	30.00	
		<u>104.15</u>
<b>Communication.</b>		
Public Buildings .....		1,630.30
<b>General Plant Service.</b>		
Office Buildings .....		.....
Baths and Comfort Stations .....		712.00
<b>Contingencies.</b>		
Public Buildings and Offices .....		77.61
		<u>\$14,636.26</u>

Total ..... \$14,636.26  
Amounts expended for Salaries and Wages, by the Bureau of Public Buildings and Offices, during the year 1913:

<b>Care of Public Buildings and Offices.</b>		
Code No. 2834	Executive, Salaries, Regular Employees .....	\$7,450.00
<b>Office Buildings.</b>		
Code No. 2841	Repairing, Salaries, Regular Employees .....	23,433.00
Code No. 2842	Janitorial Service, Regular Employees .....	15,880.76
Code No. 2850	Heat, Light and Power, Temporary Employees....	4,099.50
<b>Baths and Comfort Stations.</b>		
Code No. 2843	Janitorial Service, Regular Employees .....	7,270.00
Code No. 2844	Heat, Light and Power, Regular Employees .....	6,570.00
<b>Floating Baths.</b>		
Code No. 2849	Janitorial Service, Temporary Employees .....	2,311.50
		<u>\$67,014.76</u>
Total .....		

April 23, 1914.

Mr. John G. Borgstede,  
Commissioner of Public Works.

Dear Sir:

I transmit herewith statement for report to the Mayor, of requisitions made upon the Comptroller for the year 1913, chargeable to Budget Allowance, Revenue Bonds, Corporate Stock, Assessment and Trust Funds, subdivided as to the amounts expended on account of each bureau or division of the Office of the President of the Borough of The Bronx, for Salaries and Wages, Construction, Repairs, Supplies, Equipment, etc., together with recapitulation of said expenditures, showing grand totals of said bureaus or divisions.

Appended to said report of requisitions, is a statement of the total amount of cash received from various sources during the year ending December 31, 1913.

All of which is respectfully submitted.

JOHN OSBORN,  
General Bookkeeper.

**PRESIDENT, BOROUGH OF THE BRONX.**  
**Statement of expenditures for the year 1913, which shows the amount expended**  
**by each bureau or division, the services rendered, and the class of funds charged.**

Administration.	Salaries and Wages.	Teams and Carts.	Construction, Repairs, Supplies, Equipment, Etc.	Total.
Budget—Tax Levy, 1912.....			\$213.58	\$213.58
Budget—Tax Levy, 1913.....	\$80,947.96		1,332.57	82,280.53
Total .....	<u>\$80,947.96</u>		<u>\$1,546.15</u>	<u>\$82,494.11</u>
<b>Highways—Maintenance.</b>				
Budget—Tax Levy, 1911.....			\$445.73	\$445.73
Budget—Tax Levy, 1912.....	\$4,636.36	\$65.00	13,101.73	17,823.09
Budget—Tax Levy, 1913.....	370,585.53	78,431.68	163,639.90	612,657.11
Revenue Bonds—Wages, Laborers, Rock Soundings .....	290.23			290.23
Revenue Bonds—Repairs to Stone Pavements....	41.83			41.83
Revenue Bonds—Purchase of Street Signs.....			2,472.90	2,472.90
Revenue Bonds—Repairs to Pavement, White Plains Avenue .....			27,813.93	27,813.93
Revenue Bonds—Painting Melrose Ave. Viaduct.....			4,325.00	4,325.00
Special & Trust Funds—Restoring and Repaving Street Improvement Fund—(Wages, Laborers, Assessment—Rock Soundings) .....	6,237.45	1,490.02	16,340.59	24,068.06
	<u>1,944.96</u>			<u>1,944.96</u>
Total .....	<u>\$383,756.36</u>	<u>\$79,986.70</u>	<u>\$228,139.78</u>	<u>\$691,882.84</u>
<b>Sewers—Maintenance.</b>				
Budget—Tax Levy, 1912.....	\$2.50		\$1,255.36	\$1,257.86
Budget—Tax Levy, 1913.....	74,478.22	\$27,722.35	5,199.46	107,400.03
Total .....	<u>\$74,480.72</u>	<u>\$27,722.35</u>	<u>\$6,454.82</u>	<u>\$108,657.89</u>
<b>Public Buildings and Offices.</b>				
Budget—Tax Levy, 1912.....	\$70.00		\$3,197.17	\$3,267.17
Budget—Tax Levy, 1913.....	67,014.76		14,636.26	81,651.02
Revenue Bonds—Repairs to Elton Ave. Bath.....			4,284.12	4,284.12
Revenue Bonds—Water Pipe to Borough Hall....			725.00	725.00
Total .....	<u>\$67,084.76</u>		<u>\$22,842.55</u>	<u>\$89,927.31</u>
<b>Buildings.</b>				
Budget—Tax Levy, 1912.....	\$865.51		\$271.54	\$1,137.05
Budget—Tax Levy, 1913.....	112,110.65		1,770.79	113,881.44
Revenue Bonds—In accordance with Sec. 157, Building Code .....			5,458.19	5,458.19
Special Fund—In accordance with Sec. 158, Building Code .....			270.00	270.00
Total .....	<u>\$112,976.16</u>		<u>\$7,770.52</u>	<u>\$120,746.68</u>
<b>Engineering.</b>				
Budget—Tax Levy, 1912.....			\$553.27	\$553.27
Budget—Tax Levy, 1913.....	\$141,032.14		6,115.97	147,148.11
Corporate Stock—Bridge, Pelham Ave.....	47.00			47.00
Corporate Stock—Bridge, Gun Hill Road .....	18.44			18.44
Corporate Stock—Bridge, Becker Ave.....	39.78			39.78
Corporate Stock—Transverse Road, 161st St....	1,387.47			1,387.47
Corporate Stock—Transverse Road, Bedford Park Boulevard, etc. ....	10,073.62		120,527.18	130,600.80
Corporate Stock—Sewerage and Drainage District Plans .....	11,871.03		506.53	12,377.56
Corporate Stock—Improving Junction 3d and Franklin Aves. ....	538.05		2,733.69	3,271.74
Corporate Stock—Improving Junction 3d Ave. and Boston Road .....			233.31	233.31
Corporate Stock—Repaving Streets .....	28,008.10		464,993.92	493,002.02
Corporate Stock—Regulating E. 165th Street....	358.42		7,242.06	7,600.48
Corporate Stock—Repaving E. 149th Street....			678.71	678.71
Corporate Stock—Fund for Topographical Bureau	36,874.58		2,421.25	39,295.83
Corporate Stock—Fund for Street and Park Openings .....	42,716.33			Asst. 42,716.33
Special and Trust Funds—Street Improvement Fund .....	207,085.12		2,430,837.29	“ 2,637,922.41
Total .....	<u>\$480,050.08</u>		<u>\$3,036,843.18</u>	<u>\$3,516,893.26</u>
<b>Special Authorizations of Corporate Stock Not Under the Jurisdiction of the Engineering Division.</b>				
Corporate Stock—Construction of Court House.....	\$1,336.50		\$280,911.00	\$282,247.50
Corporate Stock—Purchase of Poe Cottage .....			3,000.00	3,000.00
Corporate Stock—Construction of Public Comfort Station .....			250.00	250.00
Corporate Stock—Installation Lighting Equipment, Borough Hall .....			607.00	607.00
Corporate Stock—Erection of Fire Escapes.....			1,315.80	1,315.80
Total .....	<u>\$1,336.50</u>		<u>\$286,083.80</u>	<u>\$287,420.30</u>

**PRESIDENT, BOROUGH OF THE BRONX.**  
**Recapitulation of Expenditures for the Year 1913.**

Bureau or Division.	Payroll Expenditures for Salaries and Wages.	Payroll Expenditures for Teams and Carts.	Contract, Open Market and Miscellaneous Expenditures for Construction, Repairs, Supplies, Equipment, Etc.	Total.
Administration .....	\$80,947.96	.....	\$1,546.15	\$82,494.11
Highways—Maintenance .....	383,756.36	\$79,986.70	228,139.78	691,882.84
Sewers—Maintenance .....	74,480.72	27,722.35	6,454.82	108,657.89
Public Buildings and Offices..	67,084.76	.....	22,842.55	89,927.31
Buildings .....	112,976.16	.....	7,770.52	120,746.68
Engineering .....	480,050.08	.....	3,036,843.18	3,516,893.26
Special Authorizations .....	1,336.50	.....	286,083.80	287,420.30
<b>Total .....</b>	<b>\$1,200,632.54</b>	<b>\$107,709.05</b>	<b>\$3,589,680.80</b>	<b>\$4,898,022.39</b>

**Cash Received from Various Sources During the Year Ending December 31, 1913.**

For Permits to Open Streets (Restoring and Repaving) .....	\$41,042.93
For Permits to Make Sewer Connections .....	13,815.30
For Permits to Construct Vaults .....	5,399.30
For Permits to Construct Temporary Sheds .....	15.00
For Redemption of Seized Incumbrances .....	37.70
For Use of Steam Roller by Contractors .....	67.50
For Advances—Reimbursement of labor and material expended by Highways— Maintenance force .....	1,023.24
For Collections from Railroad Companies for share of cost of contracts for Paving and Repaving between tracks .....	155,841.21
For Sale of Maps .....	689.89
For Sales, Old Material, etc. ....	552.40
	<b>\$218,484.47</b>
Received from Corporation Counsel a/c Superintendent of Buildings—Collections of expenses incurred, from defendants in prosecution of building violations .....	6,902.90
	<b>\$225,387.37</b>
Security Deposits received in connection with permits issued to cross sidewalks with teams, etc. ....	15,972.00
<b>Total Cash Receipts .....</b>	<b>\$241,359.37</b>

**DEPARTMENT OF PRESIDENT, BOROUGH OF THE BRONX.**  
**Statement of Balances of General Ledger Accounts as at December 31, 1913.**

Title of Account.	Debit.	Credit.
Budget Allowance, 1910 .....	\$1,080.48	
Budget Allowance, 1911 .....	1,427.54	
Budget Allowance, 1912 .....	1,869.18	
Budget Allowance, 1913 .....	47,831.90	
Appropriation, 1910 .....		\$1,080.48
Appropriation, 1911 .....		1,427.54
Appropriation, 1912 .....		1,869.18
Appropriation, 1913 .....		47,831.90
Special Revenue Bond Fund .....	314.44	
Special Revenue Bond Fund, Reserve .....		314.44
Corporate Stock Fund .....	23,779.59	
Corporate Stock Fund, Reserve .....		23,779.59
Special and Trust Funds .....	10,809.16	
Special and Trust Funds, Reserve .....		10,809.16
Open Market Orders .....	25,441.58	
Open Market Orders, Reserve Appropriation, 1913...		10,082.29
Open Market Orders, Reserve Corporate Stock Fund .....		472.00

Title of Account.	Debit.	Credit.
Open Market Orders, Reserve Special Revenue Bond Funds .....		14,887.29
Contracts .....	746,011.78	
Contract Orders .....	5,422.03	
Contract, Reserve Appropriation, 1913 .....		12,742.02
Contract, Reserve Corporate Stock Funds .....		733,681.91
Contract, Reserve Special Revenue Bond Funds ....		5,009.88
Corporate Stock Authorized .....	1,782,750.00	
Reserve for Corporate Stock Authorized .....		1,782,750.00
Special Revenue Bonds Authorized .....	26,302.00	
Special Revenue Bonds Authorized (Reserve) .....		26,302.00
Invoices Payable .....		26,833.10
<b>Expenses.</b>		
Stores .....	\$139,941.05	
Expenses—Prior Years .....	26,031.18	
Expenses—Current Year .....	1,058,685.92	
Construction .....	3,670,723.72	
Recoverable .....	50,525.65	
	4,945,907.52	
Department of Finance .....		4,905,259.60
Accounts Receivable .....	826.27	
Accounts Receivable—Railroad Companies .....	28,638.83	
Bills Rendered .....		826.27
Recoverable Expenses—Railroad Companies .....		28,638.83
Restoring and Repaving Deposits .....		6,223.17
Restoring and Repaving Deposits—Fire Department..		1,747.00
Restoring and Repaving Deposits (Excess Accounts)	45.95	
Reserve for Restoring and Repaving Deposits .....		1,488.74
Surplus Restoring and Repaving .....		1,165.43
Refunds due Plumbers .....		3,236.43
	\$7,648,458.25	\$7,648,458.25
<b>Special and Trust Funds.</b>		
S. 98 After June 1, 1912 .....	\$13,814.82	
S. 98 After June 1, 1912, Retained .....	383.03	
S. 98 Before June 1, 1912 .....	3,582.55	
	\$17,780.40	
S. 98a Dept. Water Supply, etc. ....	94.64	
S. 116 Bureau of Buildings .....	7,131.97	
	25,007.01	
Special and Trust Fund Reserve .....		25,007.01

February 11, 1914.

Hon. Thomas W. Whittle,  
Commissioner of Public Works,

Borough of The Bronx.

Dear Sir:

I herewith submit report of the Bureau of Information for the year 1913:

This Bureau has been in existence for about four years. Its purpose is to furnish information to the public regarding the status of proceedings for local improvements, that have been initiated in the Local Boards and authorized by the Board of Estimate and Apportionment. These matters relate to the laying out and widening of streets, naming of streets, acquiring title to the same, and the physical development that follows, such as regulating, grading, paving, constructing sewers and receiving basins, and the approximate cost per 25-foot lot.

In title proceedings records are kept of the progress made by the Commissioners of Estimate and Assessment from the time application is made to the Supreme Court for their appointment, to the date of confirmation of their final report and the levying of the assessment.

Information is also sent to property owners who request the same, relative to the progress of proceedings after the assessment lists for local improvements have been forwarded to the Board of Assessors, so that they may learn from that Board the amount of the proposed assessment and the time for presenting objections, if there are any.

Property owners are also informed as to the approximate time when assessments are likely to be confirmed; also when they become liens against the property and the time limit for payment before interest charges are added. Information and instructions are also given to those who desire to cede their land for street purposes.

During the past year 600 communications were sent to those who requested that information be sent them regarding proceedings in which they were interested. Telephone calls and visitors averaged about 175 per month. A register of the names and addresses of those seeking information is open for inspection. Before this Bureau was established, citizens were obliged to go to the various departments for the information which is now centralized here.

Respectfully,

HENRY L. BRIDGES,

In Charge of Bureau of Information.

January 31, 1914.

May 15, 1914.

Hon. John G. Borgstede,  
Commissioner of Public Works.

Dear Sir:

In accordance with the usual custom, I am forwarding herewith Annual Report of work accomplished in the various bureaus coming under my jurisdiction, for the year ending December 31st, 1913.

Respectfully,

R. H. GILLESPIE,  
Chief Engineer.

March 9th, 1914.

Mr. R. H. Gillespie,  
Chief Engineer of Sewers and Highways.

Sir:

I herewith hand you Annual Report for 1913, making a partial analysis of the report, calling attention to some of the details of matters contained therein.

At the beginning of the year 1913, there were 64 contracts in force, and during the year, 99 contracts were executed. Of this number, 124 contracts were completed and one contract declared abandoned, leaving at the end of the year 1913, 38 contracts still in force. During the year 240 reports were made to the Local Board, representing an approximate value of \$3,700,000. The estimates prepared for letting during the year were 125 in number, representing an estimated cost of \$3,150,000, and a length of approximately 48 miles. During the year, payments were certified, amounting to \$1,840,206.23.

The total excavation on the various contracts during the year amounted to over 278,000 cubic yards, while the filling on contract work amounted to a little less than 657,000 cubic yards. The curbing laid and relaid on the various streets amounted to about 218,000 linear feet. The flagging laid and relaid during the year amounted to a little over 500,000 square feet, of which something over 325,000 square feet was cement flagging.

The average prices for the different kinds of pavement laid during the year are approximately as follows:

Sheet Asphalt, \$1.25 per square yard.  
3-inch Asphalt Block, \$1.94 per square yard.  
New Granite Block, \$3.03 per square yard.  
Modern Granite Block, \$3.45 per square yard.  
Granite Block, redressed, \$1.33 per square yard.  
Bituminous Concrete, \$1.06 per square yard.

It will be noted that the cost of sheet asphalt averages \$.32 per square yard less than in 1912. Block asphalt exceeds the average for 1912 by \$.24 per square yard. Modern granite block cost \$.28 per square yard less than in 1912. Redressed granite cost \$.15 per square yard more than in 1912 and bituminous concrete averaged \$.17 per square yard less than in 1912. The difference in price between sheet asphalt, of which 14 contracts were completed, and bituminous concrete, of which 17 contracts were completed, was \$.19 per square yard in favor of the bituminous concrete. Up to the present time the wear of the bituminous concrete pavement has been satisfactory.

Commenting upon some of the works in progress during the year, I would call attention to the fact that CROMWELL AVENUE was practically finished in March, 1913, but owing to some questions relative to the excess time on said contract, the Payment on Acceptance was not forwarded until in the Fall.

BOSTON ROAD, regulating and grading, between White Plains Road and the City Line was completed in July, and another contract has been let and



partly constructed between the same limits for a strip of bituminous concrete 16 feet in width, which will make a good, although narrow roadway for automobiles and general traffic.

The Transverse Road at EAST 174th STREET under the Grand Boulevard and Concourse is well advanced and should be completed by the middle of 1914. This work has progressed very slowly, owing to the necessity of allowing a period for setting of the cement in each ring of the arch before the centers could be dropped.

Another Transverse Road across the Grand Boulevard and Concourse has been completed at BEDFORD PARK BOULEVARD, furnishing another means for crossing the Boulevard without interfering with traffic on the same.

The repaving of EAST 180th STREET, between Third Avenue and Bronx Street, has been completed, and furnishes an exceptionally fine cross town thoroughfare which was very much needed.

The repaving of MELROSE AVENUE, between 163rd Street and Brook Avenue, has again placed the viaduct occupying a portion of this district in good shape for traffic, and it is expected that the expansion cracks that formerly interfered with the surface of the roadway have been provided for, so that they can be kept within a definite location.

The completion of the pavement on WALKER AVENUE, from Morris Park Avenue and Unionport Road, has afforded a continuous paved surface from Tremont to Westchester Village, and furnishes a good avenue for vehicular traffic which was very much needed.

The repaving of WESTCHESTER AVENUE, between Southern Boulevard and Ward Avenue, with granite blocks on a sand foundation, has been partially completed, and will be finished early in 1914, and in connection with the further repaving of Westchester Avenue contemplated, provide a much needed means of access to the easterly part of the Borough.

WEBSTER AVENUE, from 178th Street to 187th Street, and from 200th Street to 233rd Street, has been under construction (3 contracts) during the year, and has been completed between 178th Street and 187th Street, and most of the work done between 200th Street and Gun Hill Road. The first section of this is redressed granite blocks, and affords another very good example of the results that can be obtained from a proper use of the redressed stone. The portion between Gun Hill Road and 233rd Street is being paved with modern granite block on a concrete foundation.

Contracts for the repaving of TREMONT AVENUE, between Webster Avenue and Boston Road, have been let during the year; the portion between Third Avenue and Boston Road has been begun and the contract between Webster Avenue and Third Avenue was declared abandoned on account of failure of the contractor to proceed with his work, and the same has been relet.

The regulating and grading of FIELDSTON ROAD, from Mosholu Avenue to north of 250th Street, was let in the latter part of the summer, and calls for heavy work in the matter of filling and construction of retaining walls for a section north of 253rd Street. The height of wall is over 30 feet.

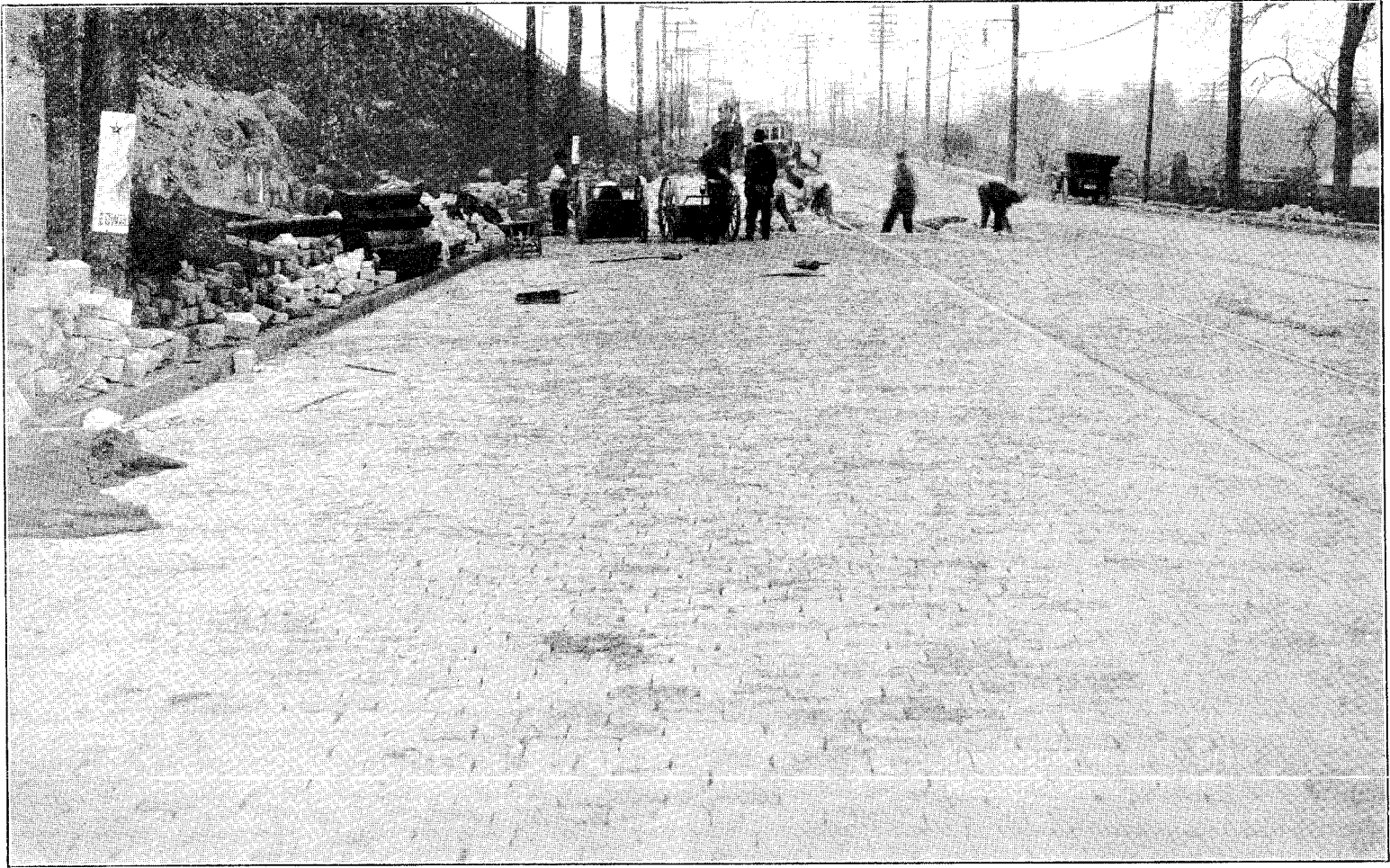
With this report, I hand you views of the following:

1. Chart showing graphically total mileage of pavement existing at the end of each year, from 1902 to 1913, inclusive.

2. View of new granite pavement ready for grout on Webster Avenue near 207th Street.
3. Redressed granite, first grouting, Webster Avenue, near E. 179th Street.
4. Redressed granite just laid on Webster Avenue, near 179th Street.
5. New granite pavement, two months old, on Webster Avenue, near 207th Street.
6. Redressed granite pavement, three months old, on Webster Avenue, near 179th Street.
7. Redressed granite pavement, five years old, on Webster Avenue, near 170th Street.
8. Bituminous concrete pavement on Perry Avenue, near 205th Street. This work has been down about two years and presents a very smooth and uniform wearing surface.
9. View showing waterproofing over arch at 174th Street Transverse Road.
10. A model for molded concrete used on the finished face of the arch at 174th Street Transverse Road.
11. View of west face of arch at 174th Street Transverse Road.
12. View of the Intersection of Franklin Avenue and Third Avenue before improvement.
13. View of the Intersection of Franklin Avenue and Third Avenue after improvement.
14. Steam shovel at work on Fieldston Road, regulating and grading contract.

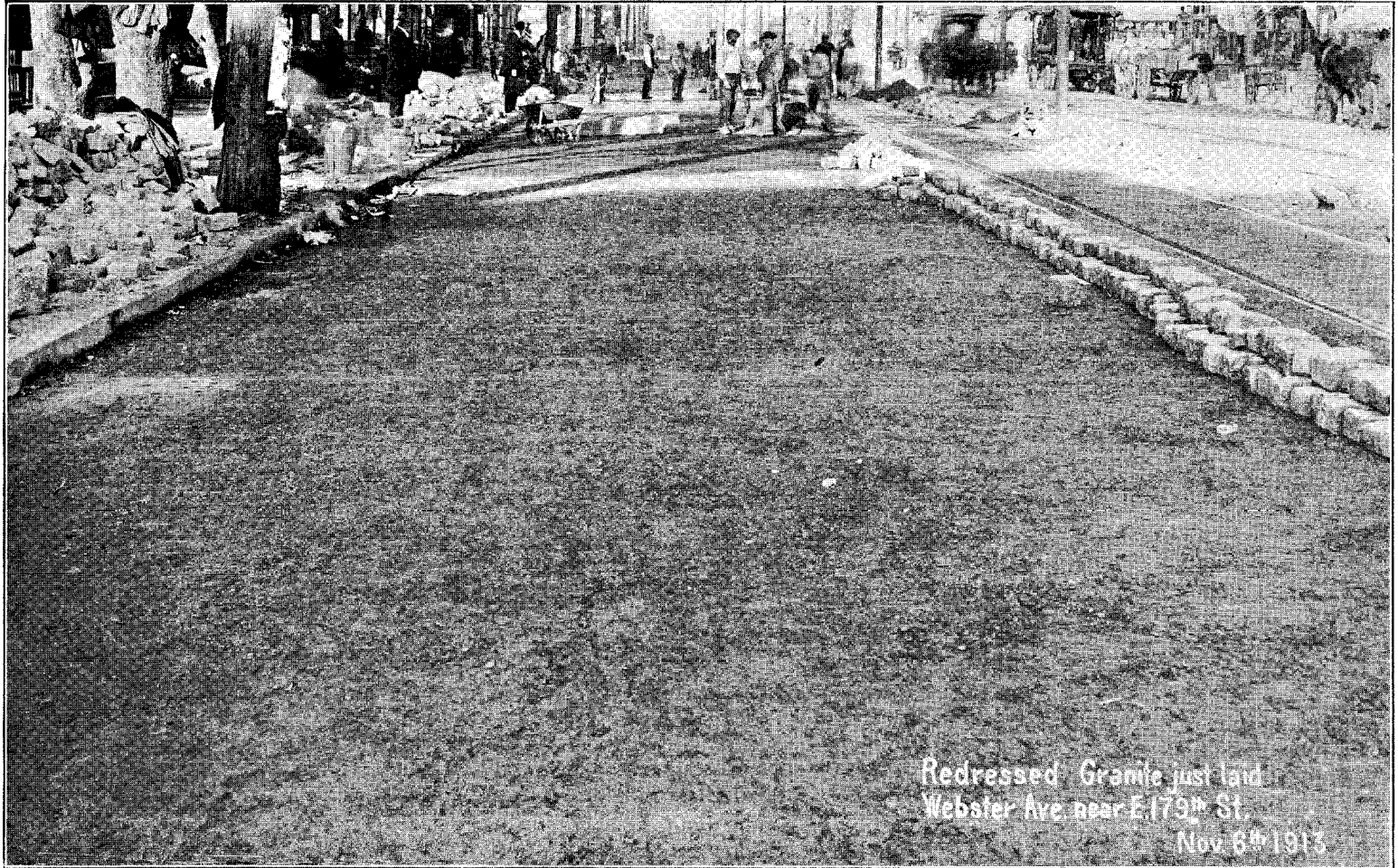
Respectfully,

S. C. THOMPSON,  
Engineer of Highways.





Redressed Granite 1<sup>st</sup> grouting  
Webster Ave. near E. 179<sup>th</sup> St.  
Nov. 6<sup>th</sup> 1913







Repaired from  
blowing dust 179  
1913





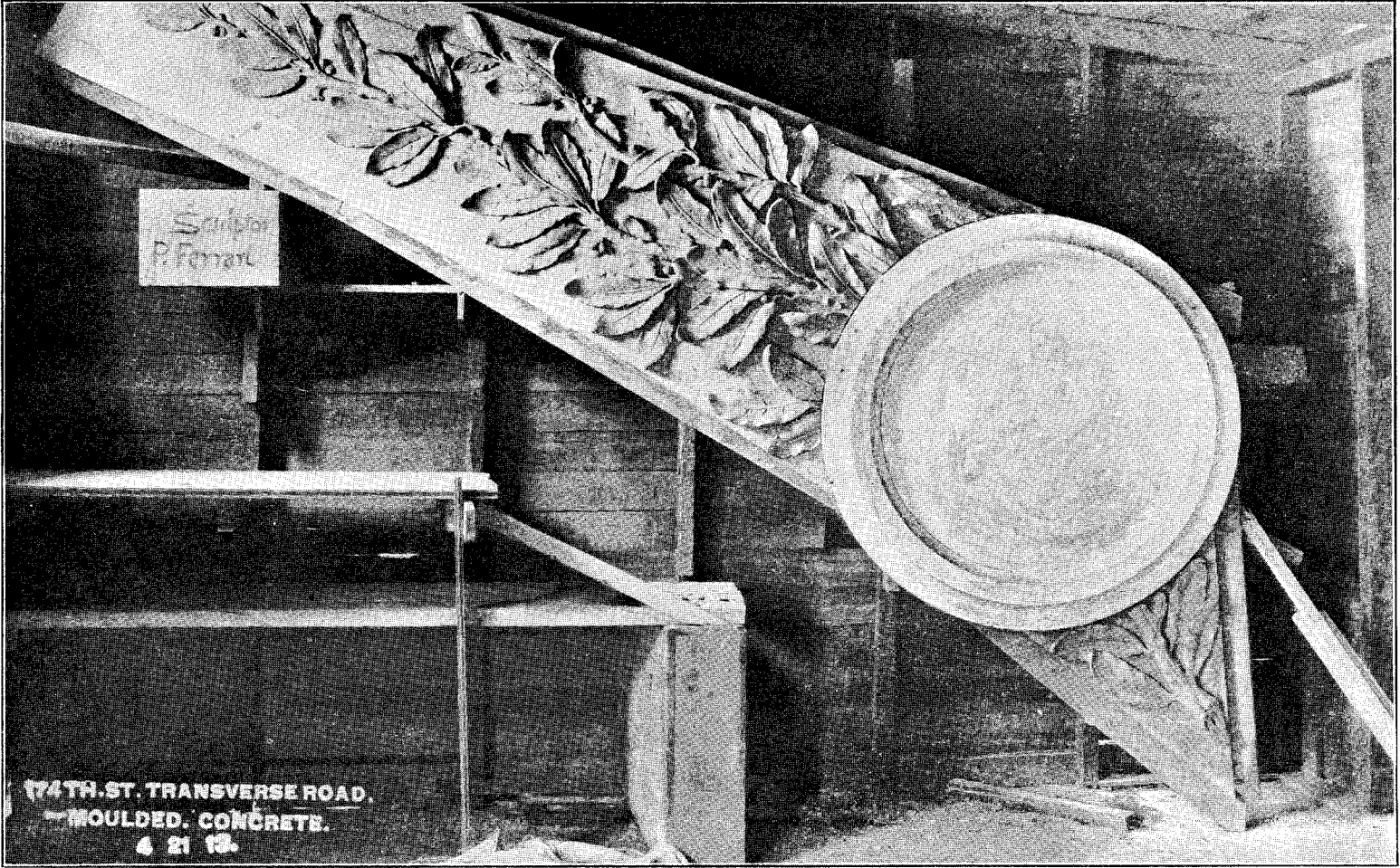


Bituminous Concrete - 2yrs. old  
Perry Ave. near 205<sup>th</sup> St.

Nov. 6<sup>th</sup> 1913



TRANSVERSE ROAD,  
WATERPROOFING.

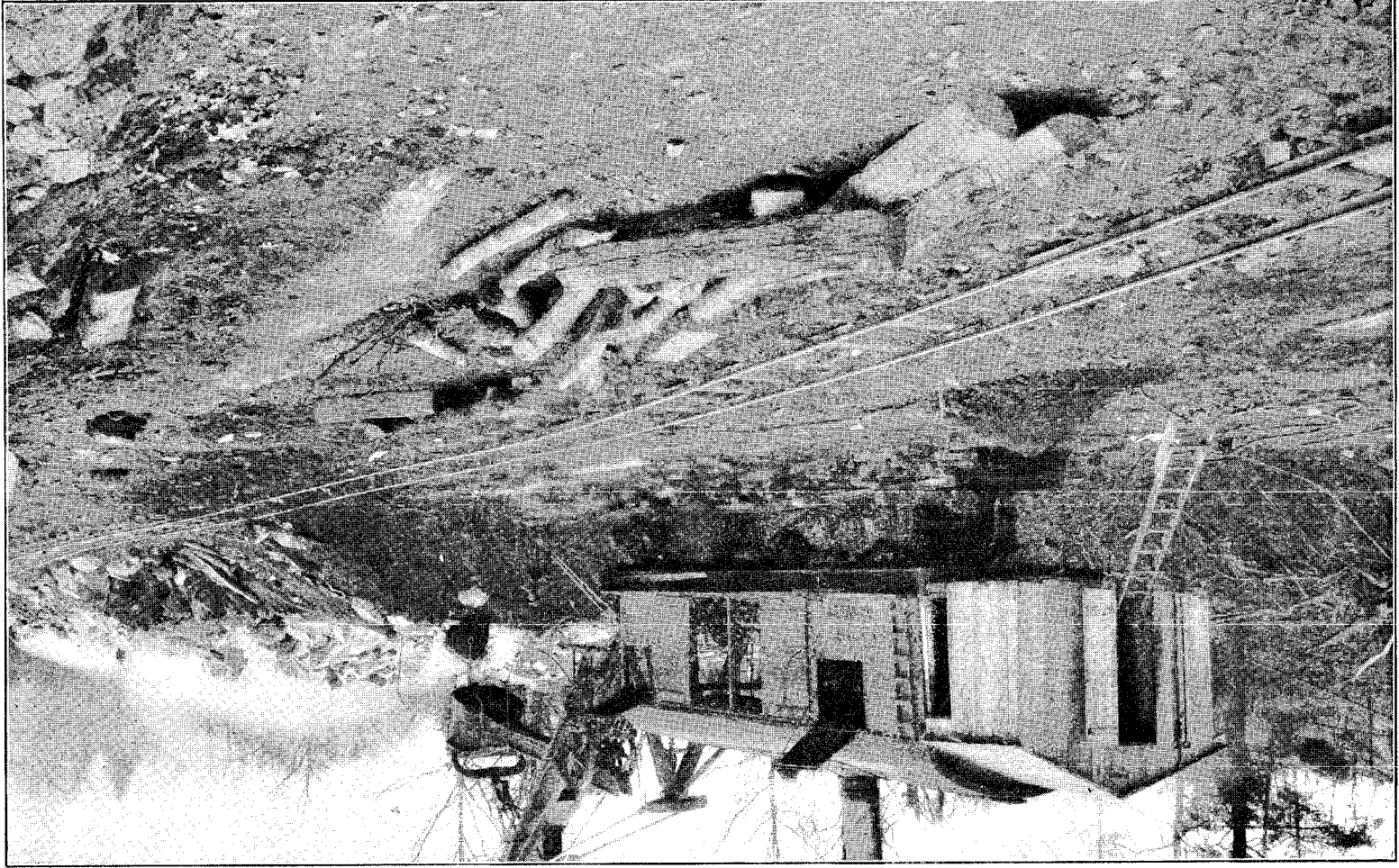








Inter-Franklin & Third Aves  
Oct. 15, 1913 543



**ANNUAL REPORT, BUREAU OF HIGHWAYS, BOROUGH OF THE BRONX.**

Paved.	Wood Block.	Trap Block.	Granite Block.	Sheet Asphalt.	Asphalt Block.	Brick.	Bituminous Concrete.	Medina Block.	Iron Slag Block.	Totals.
December 31, 1913 .....	4.376	0.077	45.155	50.520	60.708	0.094	11.847	0.282	1.545	174.604
January 1, 1913 .....	4.359	0.167	41.694	46.949	59.426	0.492	6.678	0.282	1.545	161.592
During year .....	0.017	0.090	3.461	3.571	1.282	0.398	5.169	....	....	13.012



**IN DETAIL.**

	Lin. ft.	Miles.	Lin. ft.	Miles.	Lin. ft.	Miles.
<b>Granite Block (Laid and Relaid):</b>						
On sand, Westchester Avenue, from So. Boulevard to Ward Line (part)....	1,600.0	.303				
On sand, Tiffany Street, from Edgewater Road to Dock .....	177.0	.034				
On sand, River Avenue, from E. 149th Street to about 450 feet south of 151st Street .....	767.5	.145				
On sand, German Place, from Westchester Avenue to Rae Street .....	467.2	.088				
On sand, Burnside Avenue, from Aqueduct Avenue to Sedgwick Avenue ...	1,317.0	.249				
On sand, E. 170th Street, from Bristow Street to Wilkins Place .....	460.9	.087				
On sand, Cedar Avenue, from Sedgwick Avenue to W. 179th Street .....	1,695.8	.321				
On sand, W. 177th Street, from Cedar Avenue to N. Y. & P. R. R. ....	86.3	.016				
Redressed, Tremont Avenue, from Third Avenue to Boston Road (part) ...	625.0	.118				
On concrete, E. 133rd Street, from Alexander Avenue to Willis Avenue ...	673.6	.128				
On concrete, Exterior Street, from University Heights Br. to Fordham Road .....	370.0	.072				
On concrete, Fordham Road, from Exterior Street to Public Dock .....	47.0	.009				
On concrete, Bailey Avenue, from Albany Road to Ft. Independence Street.	443.5	.084				
On concrete, So. Boulevard, from Barretto Street to Westchester Avenue...	169.6	.032				
On concrete, E. 183rd Street, from Arthur Avenue to So. Boulevard .....	721.5	.136				
On concrete, E. 180th Street, from Third Avenue to Bronx Street .....	1,164.5	.221				
On concrete, Webster Avenue, from Bedford Park Boulevard to Gun Hill Road (part) .....	4,295.5	.813				
On concrete, Webster Avenue, from Gun Hill Road to 233rd Street (part)..	2,650.0	.502				
Redressed, E. 156th Street, from Cauldwell Avenue to Dawson Street .....	1,922.0	.364				
Redressed, Brook Avenue, from E. 156th Street to Third Avenue .....	947.1	.179				
Redressed, E. 150th Street, from Third to Melrose Avenues .....	151.0	.029				
Redressed, E. 151st Street, from Third to Melrose Avenues. ....	275.6	.052				
Redressed, E. 155th Street, from Third to Elton Avenues .....	168.2	.032				
Redressed, Elton Avenue, from Third Avenue to E. 155th Street .....	538.9	.102				
Redressed, Melrose Avenue Viaduct, from E. 163rd Street to Brook Avenue..	170.6	.032				
Redressed, E. 179th Street, from Park Avenue to Third Avenue .....	692.8	.131				
Redressed, Webster Avenue, from E. 178th Street to E. 187th Street .....	3,877.9	.734				
<b>Total laid .....</b>			<b>26,476.0</b>	<b>5.013</b>		

	Lin. ft.	Miles.	Lin. ft.	Miles.	Lin. ft.	Miles.
<b>GRANITE BLOCK, Removed or Replaced.</b>						
On concrete, Melrose Avenue Viaduct, from 163rd Street to Brook Avenue			170.6	0.032		
On sand, Tremont Avenue, from Third Avenue to Boston Road .....			625.0	0.118		
On sand, E. 156th Street, from Cauldwell Avenue to Dawson Street .....			1,922.0	0.364		
On sand, E. 150th Street, from Third to Melrose Avenues .....			151.0	0.029		
On sand, Elton Avenue, from Third Avenue to 155th Street.....			505.9	0.096		
On sand, Brook Avenue, from 156th Street to Third Avenue .....			947.1	0.179		
On sand, Webster Avenue, from 178th to 187th Streets .....			3,877.9	0.734		
Total removed or replaced .....			8,199.5	1.552		
Total laid .....			26,476.0	5.013		
Total removed or replaced .....			8,199.5	1.552		
Net increase .....			18,276.5	3.461		
<b>TRAP BLOCK, Removed or Replaced.</b>						
151st Street, from Third to Melrose Avenues .....			275.6	0.052		
155th Street, from Third to Elton Avenues .....			168.2	0.032		
Elton Avenue, from Third Avenue to 155th Street .....			33.0	0.006		
Total removed .....			476.8	0.090		
<b>WOOD BLOCK, Laid or Relaid.</b>						
Southern Boulevard, from Barretto Street to Westchester Avenue .....	88.6	0.017				
<b>BRICK PAVEMENT, Removed.</b>						
Beck Street, from Leggett Avenue to Longwood Avenue .....	903.4	0.171				
Kelly Street, from 156th Street to Longwood Avenue .....	539.2	0.102				
156th Street, from Beck Street to Kelly Street .....	200.0	0.038				
Clay Avenue, from 165th Street to 166th Street.....	459.0	0.087				
Total removed .....	2,101.6	0.398				

**IN DETAIL.—Continued.**

	Lin. ft.	Miles.	Lin. ft.	Miles.	Lin. ft.	Miles.
<b>BITUMINOUS CONCRETE, Laid.</b>						
Commonwealth Avenue, from Walker Avenue to Merrill Street .....	1,021.2	0.193				
Lind Avenue, from Ward Line to Aqueduct Avenue .....	435.9	0.082				
Aqueduct Avenue, from Lind Avenue to Washington Bridge .....	870.8	0.165				
Aqueduct Avenue, from Fordham Road to Kingsbridge Road .....	2,217.6	0.420				
E. 173rd Street, from So. Boulevard to Bryant Avenue .....	742.0	0.140				
Manida Street, from Lafayette Avenue to Eastern Boulevard ..	2,360.6	0.447				
Walton Avenue, from 177th Street to Tremont Avenue .....	517.9	0.098				
W. 261st Street, from Riverdale Avenue to Broadway .....	1,751.0	0.332				
Devoe Terrace, from Webb Avenue to W. 190th Street .....	972.0	0.184				
St. Lawrence Avenue, from Walker Avenue to Merrill Street .....	1,136.6	0.215				
Ogden Avenue, from W. 169th Street to Aqueduct Avenue .....	1,551.8	0.294				
202nd Street, from Webster Avenue to N. Y. & H. R. R. ....	229.6	0.044				
Morris Avenue, from E. 167th Street to E. 170th Street .....	1,755.0	0.332				
Morris Avenue, from E. 184th Street to Fordham Road .....	822.6	0.158				
Findlay Avenue, from E. 165th Street to E. 166th Street .....	452.4	0.086				
Hoe Avenue, from E. 173rd Street to Boston Road .....	1,098.2	0.208				
Nelson Avenue, from Featherbed Lane to Macombs Road .....	1,346.9	0.255				
Vyse Avenue, from E. 173rd Street to E. 177th Street .....	2,250.3	0.426				
Garrison Avenue, from Tiffany Street to Hunts Point Avenue ..	985.7	0.187				
Vyse Avenue, from E. 172nd Street to E. 173rd Street .....	613.8	0.116				
Brandt Place, from University Avenue to Nelson Avenue .....	221.8	0.042				
W. 174th Street, from Nelson Avenue to Macombs Road .....	579.6	0.110				
Kingsbridge Avenue, from W. 230th Street to W. 234th Street ..	1,723.7	0.326				
Morris Avenue, from E. 166th Street to E. 167th Street .....	1,078.0	0.204				
Boston Road, from White Pl. Road to City Line (part) 16' roadway ..	7,700.0	1.458				
<b>Total laid</b> .....			<b>34,435.0</b>	<b>6.522</b>		
<b>BITUMINOUS CONCRETE, Removed.</b>						
Bituminous concrete transferred to sheet asphalt.						
Work done under private contract, 1912 .....			<b>7,143.7</b>	<b>1.353</b>		
<b>Net increase</b> .....			<b>27,291.3</b>	<b>6.169</b>		

57

	Lin. ft.	Miles.	Lin. ft.	Miles.	Lin. ft.	Miles.
<b>ASPHALT BLOCK, Laid or Relaid.</b>						
3-inch Block, Walker Avenue, from Morris Park Avenue to Unionport Road	1,383.9	0.262				
3-inch Block, Fox Street, from 165th Street northerly to Intervale Avenue..	465.5	0.088				
3-inch Block, Aqueduct Avenue, from Burnside Avenue to 181st Street ....	1,834.1	0.347				
3-inch Block, W. 231st Street, from Corlear Avenue to Bailey Avenue .....	831.0	0.157				
3-inch Block, Morris Avenue, from E. 156th Street to E. 161st Street .....	1,067.3	0.202				
3-inch Block, Cauldwell Avenue, from Westchester Avenue to E. 161st Street	525.8	0.099				
3-inch Block, Tiffany Street, from So. Boulevard to Lafayette Avenue ....	808.0	0.153				
3-inch Block, Longwood Avenue, from So. Boulevard to Westchester Avenue center plots .....	957.3	0.181				
3-inch Block, Bailey Avenue, from Albany Road to Ft. Independence Street	90.0	0.017				
3-inch Block, E. 165th Street, from Union Avenue to Stebbins Avenue .....	544.2	0.103				
3-inch Block, Longfellow Avenue, from Lafayette Avenue to N. Y., N. H. & H. R. R. R.....	1,767.2	0.335				
3-inch Block, E. 165th Street, from Grant Avenue to Morris Avenue .....	222.0	0.042				
3-inch Block, Barretto Street, from So. Boulevard to Whitlock Avenue ....	223.0	0.042				
3-inch Block, E. 170th Street, from Transverse Road .....	614.0	0.116				
3-inch Block, Bedford Park Boulevard, Transverse Road .....	2,066.6	0.392				
2-inch Block, Heath Avenue, from Boston Avenue to Ft. Independence Street .....	1,288.1	0.244				
Total laid .....			14,688.0	2.780		
<b>ASPHALT BLOCK, Removed or Relaid.</b>						
Boston Road, from Prospect Avenue to So. Boulevard .....	2,736.6	0.518				
White Plains Road, from 213th to 227th Streets, East Side .....	584.0	0.111				
Cauldwell Avenue, from Westchester Avenue to E. 161st Street .....	525.8	0.099				
Jackson Avenue, from 149th Street to Westchester Avenue .....	1,112.1	0.210				
133rd Street, from Alexander Avenue to Willis Avenue .....	673.6	0.128				
So. Boulevard, from Barretto Street to Westchester Avenue .....	258.2	0.049				
Morris Avenue, from E. 156th Street to E. 161st Street .....	1,067.3	0.202				
Longwood Avenue, from So. Boulevard to Westchester Ave. ....	957.3	0.181				
Total removed, etc. ....			7,914.9	1.498		
Net increase .....			6,773.1	1.282		

**IN DETAIL.—Continued.**

	Lin. ft.	Miles.	Lin. ft.	Miles.	Lin. ft.	Miles.
<b>SHEET ASPHALT, Laid.</b>						
Transferred from Bituminous Concrete (private contracts of 1912) .....	7,143.7	1.353				
Clay Avenue, from E. 165th Street to E. 166th Street .....	459.0	0.087				
White Plain Road, from E. 213th Street to E. 227th Street (rail to E. curb) .....	584.0	0.111				
E. 179th Street, from Park Avenue West to Valentine Avenue .....	577.9	0.109				
E. 179th Street, from Park Avenue West to Valentine Avenues .....	577.3	0.109				
E. 183rd Street, from Arthur Avenue to So. Boulevard .....	46.4	0.009				
E. 173rd Street, from Miniord Place to So. Boulevard .....	220.0	0.042				
Fox Street, from 165th Street nearly to Intervale Avenue .....	1,508.3	0.286				
Melrose Avenue Viaduct, from E. 163rd Street to Brook Avenue .....	707.0	0.133				
W. 231st Street, from Corlear Avenue to Bailey Avenue .....	813.0	0.154				
Bathgate Avenue, from E. 188th Street to Fordham Road .....	759.8	0.144				
Cauldwell Avenue, from Westchester Avenue to E. 161st Street .....	1,721.6	0.326				
Longwood Avenue, from So. Boulevard to Westchester Avenue (center plots) .....	444.5	0.084				
Beck Street, from Leggett Avenue to Longwood Avenue .....	903.4	0.171				
Kelly Street, from 156th Street to Longwood Avenue .....	539.2	0.102				
E. 156th Street, from Beck Street to Kelly Street .....	200.0	0.038				
Boston Road, from E. 165th Street to Jefferson Street .....	3,483.6	0.659				
E. 169th Street, from Boston Road to Franklin Avenue .....	475.4	0.090				
Jackson Avenue, from E. 149th Street to Westchester Avenue .....	1,112.1	0.210				
W. 230th Street, from Broadway to Corlear Avenue .....	1,009.0	0.191				
Summit Avenue, from E. 165th Street to W 166th Street .....	497.4	0.094				
E. 180th Street, from Devoe Avenue to Morris Park Avenue .....	943.9	0.179				
Faile Street, from Aldus Street to Railroad Bridge (P. P.) .....	776.2	0.147				
Boston Road, from Prospect Avenue to So. Boulevard .....	2,736.6	0.518				
179th Street, from Park Avenue W. to Valentine Avenue (error) .....	691.7	0.131				
Total laid .....	28,355.1	5.368			28,355.1	5.368
<b>SHEET ASPHALT, Removed or Replaced.</b>						
Boston Road, from E. 165th Street to Jefferson Street and E. 169th Street, from Boston Road to Franklin Avenue .....			3,959.0	0.749		
Melrose Avenue Viaduct, from E. 163rd Street to Brook Avenue .....			707.0	0.133		
Cauldwell Avenue, from Westchester Avenue to E. 161st Street .....			1,721.6	0.326		
Fox Street, from E. 165th Street to Intervale Avenue .....			1,973.8	0.374		
179th Street, from Park Avenue W. to Valentine Avenue (error in previous report) .....			691.7	0.131		
Longwood Avenue, from So. Boulevard to Westchester Avenue (plots) ...			444.5	0.084		
Total removed, etc. ....			9,497.6	1.797	9,497.6	1.797
Net increase .....					18,857.5	3.571

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**WORK DONE UNDER CONTRACT.**

Title of Work.	Kind of Paving.	Laid		Remarks.
		Sq. Yds.	Lin. Ft.	
Westchester Avenue, from So. Boulevard to Ward Avenue (part) .....	Granite Block	10,680.0	1,600.0	In progress, laid on Sand.
Tiffany Street, from Edgewater Road to Dock .....	Granite Block	1,150.7	177.0	Complete, laid on Sand.
River Avenue, from E. 149th Street to 450 feet south of 151st Street .....	Granite Block	3,240.5	767.5	Complete, laid on Sand.
German Place, from Westchester Avenue to Rae Street .....	Granite Block	1,230.5	467.2	Complete, laid on Sand.
Burnside Avenue, from Aqueduct Avenue to Sedgwick Avenue .....	Granite Block	6,806.0	1,317.0	Complete, laid on Sand.
E. 170th Street, from Bristow Street to Wilkins Place .....	Granite Block	1,498.7	460.9	Complete, laid on Sand.
Cedar Avenue, from Sedgwick Avenue to W. 179th Street .....	Granite Block	6,892.0	1,695.8	Complete, laid on Sand.
W. 177th Street, from Cedar Avenue to N. Y. & P. R. R. ....	Granite Block	385.4	86.3	Complete, laid on Sand.
Tremont Avenue, from Third Avenue to Boston Road (part) .....	Redressed Granite Block	3,600.0	625.0	In progress, relaid on Concrete.
E. 133rd Street, from Alexander to Willis Avenues .....	Modern Granite Block	4,565.8	673.6	Complete, relaid on Concrete.
Exterior Street, from University Heights Br. to Fordham Road .....	Modern Granite Block	1,119.3	370.0	Complete, laid on Concrete.
Fordham Road, from Exterior Street to Public Dock .....	Modern Granite Block	421.7	47.0	Complete, laid on Concrete.
Bailey Avenue, from Albany Road to Ft. Independence Street .....	Modern Granite Block	1,537.0	443.5	Complete, laid on Concrete.
So. Boulevard, from Barretto Street to Westchester Avenue .....	Modern Granite Block	1,168.5	169.6	Complete, laid on Concrete.
E. 183rd Street, from Arthur Avenue to So. Boulevard .....	Modern Granite Block	2,468.8	721.5	Complete, laid on Concrete.
E. 180th Street, from Third Avenue to Bronx Street .....	Modern Granite Block	4,976.4	1,164.5	Complete, laid on Concrete.
Webster Avenue, from Bedford Park Boulevard to Gun Hill Road (part) ..	Modern Granite Block	27,210.0	4,295.5	In progress, laid on Concrete.
Webster Avenue, Gun Hill Road to 233rd Street (part) .....	Modern Granite Block	12,015.0	2,650.0	In progress, laid on Concrete.
E. 167th and E. 169th Streets, from Boston Road to So. Boulevard .....	Modern Granite Block	.....	.....	In progress. No work done.
E. 156th Street, from Cauldwell Avenue to Dawson Street .....	Redressed Granite	7,786.4	1,922.0	Complete, laid on Concrete.
Brook Avenue, from E. 156th Street to Third Avenue .....	Redressed Granite	6,718.9	947.1	Complete, laid on Concrete.
E. 150th Street, from Third Avenue to Melrose Avenue .....	Redressed Granite	380.3	151.0	Complete, laid on Concrete.
E. 151st Street, from Third Avenue to Melrose Avenue .....	Redressed Granite	713.9	275.6	Complete, laid on Concrete.
E. 155th Street, from Third Avenue to Elton Avenues .....	Redressed Granite	438.4	168.2	Complete, laid on Concrete.
Elton Avenue, from Third Avenue to E. 155th Street .....	Redressed Granite	1,518.0	538.9	Complete, laid on Concrete.
Melrose Avenue Viaduct, from E. 163rd Street to Brook Avenue .....	Redressed Granite	782.1	170.6	Complete, relaid on Concrete.
E. 179th Street, from Park Avenue to Third Avenue .....	Redressed Granite	1,815.0	692.8	Complete, laid on Concrete.
Webster Avenue, from E. 178th Street to E. 187th Street .....	Redressed Granite	24,902.1	3,877.9	Complete, laid on Concrete.
Tremont Avenue, from Webster Avenue to Third Avenue .....	Redressed Granite	.....	.....	In progress. No work done.
Commonwealth Avenue, from Walker Avenue to Merrill Street .....	Bituminous Concrete	3,400.5	1,021.2	Complete, laid on Concrete.
Lind Avenue, from Ward Line to Aqueduct Avenue .....	Bituminous Concrete	1,226.0	435.9	Complete, laid on Concrete.
Aqueduct Avenue, from Lind Avenue to Washington Bridge .....	Bituminous Concrete	3,143.7	870.8	Complete, laid on Concrete.
Aqueduct Avenue, from Fordham Road to Kingsbridge Road .....	Bituminous Concrete	10,551.2	2,217.6	Complete, laid on Concrete.
E. 173rd Street, from So. Boulevard to Bryant Avenue .....	Bituminous Concrete	2,489.4	742.0	Complete, laid on Concrete.
Manida Street, from Lafayette Avenue to Eastern Boulevard .....	Bituminous Concrete	8,070.3	2,360.6	Complete, laid on Concrete.
Walton Avenue, from 177th Street to Tremont Avenue .....	Bituminous Concrete	1,720.3	517.9	Complete, laid on Concrete.

**WORK DONE UNDER CONTRACT.—Continued.**

Title of Work.	Kind of Paving.	Laid		Remarks.
		Sq. Yds.	Lin. Ft.	
W. 261st Street, from Riverdale Avenue to Broadway .....	Bituminous Concrete	6,038.0	1,751.0	Complete, laid on Concrete.
Devoe Terrace, from Webb Avenue to W. 190th Street .....	Bituminous Concrete	2,582.4	972.0	Complete, laid on Concrete.
St. Lawrence Avenue, from Walker Avenue to Merrill Street .....	Bituminous Concrete	3,783.3	1,136.6	Complete, laid on Concrete.
Ogden Avenue, from W. 169th Street to Aqueduct Avenue .....	Bituminous Concrete	4,295.0	1,551.8	Complete, laid on Concrete.
202nd Street, from Webster Avenue to N. Y. & H. R. R. ....	Bituminous Concrete	747.4	229.6	Complete, laid on Concrete.
Morris Avenue, from E. 167th Street to E. 170th Street .....	Bituminous Concrete	8,225.5	1,755.0	Complete, laid on Concrete.
Morris Avenue, from E. 184th Street to Fordham Road .....	Bituminous Concrete	2,717.2	822.6	Complete, laid on Concrete.
Findlay Avenue, from E. 165th Street to E. 166th Street .....	Bituminous Concrete	1,494.7	452.4	Complete, laid on Concrete.
Hoe Avenue, from E. 173rd Street to Boston Road .....	Bituminous Concrete	3,718.3	1,098.2	Complete, laid on Concrete.
Nelson Avenue, from Featherbed Lane to Macombs Road .....	Bituminous Concrete	4,892.6	1,346.9	Complete, laid on Concrete.
Vyse Avenue, from E. 173rd Street to E. 177th Street .....	Bituminous Concrete	7,535.7	2,250.3	Complete, laid on Concrete.
Garrison Avenue, from Tiffany Street to Hunts Point Road .....	Bituminous Concrete	4,640.6	985.7	Complete, laid on Concrete.
Vyse Avenue, from E. 172nd Street to E. 173rd Street .....	Bituminous Concrete	2,032.7	613.8	Complete, laid on Concrete.
Brandt Place, from University Avenue to Nelson Avenue .....	Bituminous Concrete	575.9	221.8	Complete, laid on Concrete.
W. 174th Street, from Nelson Avenue to Macombs Road .....	Bituminous Concrete	1,902.4	579.6	Complete, laid on Concrete.
09 Kingsbridge Avenue, from W. 230th Street to W. 234th Street .....	Bituminous Concrete.	7,625.0	1,723.7	Complete, laid on Concrete.
Morris Avenue, from E. 166th Street to E. 167th Street .....	Bituminous Concrete	3,443.3	1,078.0	Complete, laid on Concrete.
Boston Road, from White Plains Road to City Line (part) .....	Bituminous Concrete	13,689.0	7,700.0	In progress, 16-foot roadway.
Bailey Avenue, from W. 238th Street to Kingsbridge Road .....	Bituminous Concrete	.....	....	In progress. No work done.
Clay Avenue, from E. 165th Street to E. 166th Street .....	Sheet Asphalt	1,529.9	459.0	Complete, laid on Concrete.
White Plains Road, from E. 213th Street to E. 227th Street .....	Sheet Asphalt	1,605.0	584.0	Complete, laid on Concrete.
E. 179th Street, from Park Avenue W. to Valentine Avenue .....	Sheet Asphalt	1,504.2	577.3	Complete, laid on Concrete.
E. 173rd Street, from Minford Place to So. Boulevard .....	Sheet Asphalt	720.7	222.0	Complete, laid on Concrete.
E. 183rd Street, from Arthur Avenue to So. Boulevard .....	Sheet Asphalt	49.7	46.4	Complete, laid on Concrete.
Fox Street, from 165th Street northerly to Intervale Avenue .....	Sheet Asphalt	5,296.6	1,508.3	Complete, laid on Concrete.
Melrose Avenue Viaduct, from E. 163rd Street to Brook Avenue .....	Sheet Asphalt	3,494.0	707.0	Complete, relaid on Concrete.
W. 231st Street, from Corlear Avenue to Bailey Avenue .....	Sheet Asphalt	3,411.0	813.0	Complete, laid on Concrete.
Bathgate Avenue, from E. 188th Street to Fordham Road .....	Sheet Asphalt	2,506.7	759.8	Complete, laid on Concrete.
Cauldwell Avenue, from Westchester Avenue to E. 161st Street .....	Sheet Asphalt	6,275.2	1,721.6	Complete, relaid on Concrete.
Longwood Avenue, from So. Boulevard to Westchester Avenue (plots) ....	Sheet Asphalt	731.5	444.5	Complete, laid on Concrete.
Beck Street, from Leggett Avenue to Longwood Avenue .....	Sheet Asphalt	3,100.8	903.4	Complete, laid on Concrete.
Kelly Street, from 156th Street to Longwood Avenue .....	Sheet Asphalt	1,888.6	539.2	Complete, laid on Concrete.
156th Street, from Beck Street to Kelly Street .....	Sheet Asphalt	666.7	200.0	Complete, laid on Concrete.
Boston Road, from E. 165th Street to Jefferson Street, etc. ....	Sheet Asphalt	14,841.7	3,483.6	Complete, relaid on Concrete.
E. 169th Street, from Boston Road to Franklin Avenue .....	Sheet Asphalt	3,962.8	475.4	Complete, relaid on Concrete.
Jackson Avenue, from E. 149th Street to Westchester Avenue .....	Sheet Asphalt	4,468.7	1,112.1	Complete, relaid on Concrete.

Title of Work.	Kind of Paving.	Laid		Remarks.
		Sq. Yds.	Lin. Ft.	
W. 230th Street, from Broadway to Corlear Avenue .....	Sheet Asphalt	7,054.0	1,009.0	Complete, laid on Concrete.
Summit Avenue, from E. 165th Street to E. 166th Street .....	Sheet Asphalt	1,378.8	497.4	Complete, laid on Concrete.
E. 180th Street, from Devoe Avenue to Morris Park Avenue .....	Sheet Asphalt	4,557.0	943.9	Complete, laid on Concrete.
Faille Street, from Aldus Street to Railroad Bridge (P. P.) .....	Sheet Asphalt	2,631.1	776.2	Complete, laid on Concrete.
Boston Road, from Prospect Avenue to So. Boulevard (part) .....	Sheet Asphalt	19,228.2	2,736.6	Complete, laid on Concrete.
Walker Avenue, from Morris Park Avenue to Unionport Road .....	Asphalt Block	1,503.4	1,383.9	Compl., laid on Conc., 3-in. Blk.
Fox Street, from 165th Street northerly to Intervale Avenue .....	Asphalt Block	1,551.7	465.5	Compl., laid on Conv., 3-in. Blk.
Melrose Avenue Viaduct, from 163rd Street to Brook Avenue .....	Asphalt Block	73.8	.....	Comp., relaid on Conc., 3-in. Blk.
Aqueduct Avenue, from Burnside Avenue to 181st Street .....	Asphalt Block	12,481.8	1,834.1	Compl., laid on Conc., 3-in. Blk.
W. 231st Street, from Corlear to Bailey Avenue .....	Asphalt Block	3,904.0	831.0	Compl., laid on Conc., 3-in. Blk.
Morris Avenue, from E. 156th Street to 161st Street .....	Asphalt Block	1,894.5	1,067.3	Compl., relaid on Conc., 3-in. Blk.
Tiffany Street, from So. Boulevard to Lafayette Avenue .....	Asphalt Block	3797.4	808.0	Compl., laid on Conc., 3-in. Blk.
Cauldwell Avenue, from Westchester Avenue to E. 161st Street .....	Asphalt Block	1,869.5	525.8	Compl., relaid on Conc., 3-in. Blk.
Longwood Avenue, from So. Boulevard to Westchester Avenue .....	Asphalt Block	1,568.7	957.3	Compl., laid on Conc., 3-in. Blk.
Bailey Avenue, from Albany Road to Ft. Independence Street .....	Asphalt Block	489.0	90.0	Compl., laid on Conc., 3-in. Blk.
E. 165th Street, from Union to Stebbins Avenues .....	Asphalt Block	1,801.0	544.2	Compl., laid on Conc., 3-in. Blk.
Longfellow Avenue, from Lafayette Avenue to N. Y., N. H. & H. R. R. ....	Asphalt Block	5,892.9	1,767.2	Compl., laid on Conc., 3-in. Blk.
E. 165th Street, from Grant Avenue to Morris Avenue .....	Asphalt Block	731.9	222.0	Compl., laid on Conc., 3-in. Blk.
Barretto Street, from So. Boulevard to Whitlock Avenue .....	Asphalt Block	724.1	223.0	Compl., laid on Conc., 3-in. Blk.
E. 170th Street, Transverse Road .....	Asphalt Block	3,808.4	614.0	Compl., laid on Conc., 3-in. Blk.
Bedford Park Boulevard, Transverse Road .....	Asphalt Block	8,349.9	2,066.6	Compl., laid on Conc., 3-in. Blk.
Heath Avenue, from Boston Avenue to Ft. Independence Street .....	Asphalt Block	4,416.0	1,288.1	Compl., laid on Conc., 2-in. Blk.
Sp. Boulevard, from Barretto Street to Westchester Avenue .....	Wood Block	647.9	88.6	Complete, laid on Concrete.



**Total Mileage of Each Kind, December 31, 1913.**

Kind.	Sq. Yds.	Miles.
Trap Block .....	2,373.70	0.077
Granite Block on sand .....	670,986.69	28.043
Granite Block on concrete, old method.....	123,230.07	5.100
Granite Block on concrete, redressed .....	208,462.70	7.795
Granite Block, on concrete, modern .....	110,457.40	4.217
Sheet Asphalt .....	1,146,461.43	50.520
Block Asphalt (3-inch) .....	1,325,446.64	59.243
Block Asphalt (2-inch) .....	24,423.09	1.465
Brick .....	1,881.50	0.094
Medina Block .....	3,953.80	0.282
Iron Slag Block .....	31,807.20	1.545
Bituminous Concrete .....	217,296.63	11.847
Wood Block .....	121,791.40	4.376
<b>Total mileage .....</b>		<b>174.604</b>

In addition to the foregoing mileage, there is about 9+ miles of uncompleted work (paving) under contract, December 31, 1913.

**Total Yardage and Miles of Streets Paved and Repaved from 1874 to Jan. 1, 1914.**

Kind.	Sy. Yds.	Miles.
Trap Block .....	349,140.70	16.636
Granite Block (all kinds) .....	1,683,244.06	65.047
Sheet Asphalt .....	1,252,303.55	54.356
Block Asphalt .....	1,410,502.43	62.698
Wood Block .....	121,841.40	4.376
Brick .....	40,795.20	1.474
Medina Block .....	3,953.90	0.282
Iron Slag Block .....	31,807.20	1.545
Bituminous Concrete .....	245,325.73	13.200
<b>Total mileage .....</b>		<b>219.614</b>

**Total Yardage and Miles of Streets and Avenues Flagged with Bluestone in the Borough of The Bronx.**

	Sy. Yds.	Miles.
To Jan. 1, 1913 .....	1,411,266.2	503.7
Flagged during year .....	16,920.8	7.2
<b>Total to January 1, 1914 .....</b>	<b>1,428,187.0</b>	<b>510.9</b>

**Total Yardage and Mileage of Streets and Avenues Flagged with Cement Walks in the Borough of The Bronx.**

	Sy. Yds.	Miles.
To Jan. 1, 1913 .....	10,879.0	4.63
Flagged during year .....	36,474.4	12.40
<b>Total to January 1, 1914 .....</b>	<b>47,353.4</b>	<b>17.03</b>

**CONTRACTS IN FORCE DURING 1913, CHARGEABLE TO REPAVING FUND.**

Street.	Limits.	Kand.	Sq. Yds.	Lin. Ft.	Miles.	Amount oh'rg'd during year.
CLAY AVENUE, from E. 165th Street to E. 166th Street		Asphalt	1,529.9	459.0	0.087	\$3,693.04
WHITE PLAINS ROAD, from Gun Hill Road to E. 227th Street		Asphalt	1,605.0	584.0	0.111	7,247.90
MELROSE AVENUE VIADUCT, from 163rd Street to Brook Avenue		Asphalt and Granite Block	3,494.0	707.0	0.133	
			782.1	170.6	0.032	11,744.41
BECK STREET, from Leggett Avenue to Longwood Avenue, etc.		Asphalt	5,656.1	1,642.6	0.311	11,128.55
BOSTON ROAD, E. 165th Street to Jefferson Street, etc.		Asphalt	18,804.5	3,959.0	0.749	35,609.52
JACKSON AVENUE, from E. 149th Street to Westchester Avenue		Asphalt	4,468.7	1,112.1	0.210	6,227.31
SUMMIT AVENUE, from E. 165th Street to E. 166th Street		Asphalt	1,378.8	497.4	0.094	3,061.21
BOSTON ROAD, from Prospect Avenue to So. Boulevard		Asphalt	19,228.2	2,736.6	0.518	11,879.60
CAULDWELL AVENUE, from Westchester Avenue to E. 161st Street		Asphalt and Asphalt Block	6,275.2	1,721.6	0.326	
			1,869.5	525.8	0.099	10,245.73
BOSTON ROAD, from White Plains Road to City Line		Bit. Concrete	13,689.0	7,700.0	1.458	23,510.02
WESTCHESTER AVENUE, from So. Boulevard to Ward Avenue		Gran. on sand	10,680.0	1,600.0	0.303	28,361.61
E. 180TH STREET, from Third Avenue to Bronx Street		Modern Block	4,976.4	1,164.5	0.221	17,258.82
E. 133RD STREET, from Alexander Avenue to Willis Avenue		Modern Block	4,565.8	673.6	0.128	26,620.31
WEBSTER AVENUE, from Bedford Park Boulevard to Gun Hill Road		Modern Block	27,210.0	4,295.5	0.813	90,435.78
WEBSTER AVENUE, from Gun Hill Road to 233rd Street		Modern Block	12,015.0	2,650.0	0.502	45,624.81
E. 183RD STREET, from Arthur Avenue to So. Boulevard		Asphalt and Granite Block	49.7	46.4	0.009	
			2,468.8	721.5	0.136	11,059.89
E. 156TH STREET, from Cauldwell Avenue to Dawson Street		Redressed Gran.	7,786.4	1,922.0	0.364	18,492.97
BROOK AVENUE, from E. 156th Street to Third Avenue		Redressed Gran.	6,718.9	947.1	0.179	14,869.23
E. 150TH STREET, from Third Avenue to Melrose Park, etc.		Redressed Gran.	3,050.6	1,133.7	0.215	8,802.75
WEBSTER AVENUE, from E. 178th Street to E. 187th Street		Redressed Gran.	24,902.1	3,877.9	0.734	53,267.48
TREMONT AVENUE, from Third Avenue to Boston Road		Redressed Gran.	3,600.0	625.0	0.118	9,195.30
FOX STREET, from E. 165th Street to Intervale Avenue		Asphalt and Granite Block	5,296.6	1,508.3	0.286	
			1,551.7	465.5	0.088	8,893.83
MORRIS AVENUE, from E. 156th Street to E. 161st Street		Asphalt Block	1,894.5	1,067.3	0.202	2,890.48
SO. BOULEVARD, from Barretto Street to Westchester Avenue		Granite and Wood Block	1,168.5	169.6	0.032	
			647.9	88.6	0.017	6,275.43
						<b>\$466,395.98</b>

**REGULATING AND GRADING CONTRACTS.**

**Completed During Year 1913.**

	Linear Feet.
Theriot Avenue, from Wood Avenue to Gleason Avenue .....	1,611.9
Van Cortlandt Avenue, from Sedgwick Avenue to Albany Road .....	1,201.2
Sedgwick Avenue, from Van Cortlandt Avenue to 430 feet westerly .....	469.2
Jerome Avenue, from 190th Street to 600 feet north of Van Cortlandt Avenue....	6,762.8
Garfield Street, from Morris Park Avenue to N. Y., N. H. & H. R. R. ....	1,255.1
E. 242nd Street, from Katonah Avenue to N. L. of City of New York.....	389.1
Cromwell Avenue, from E. 150th Street to Jerome Avenue .....	5,751.3
W. 230th Street, from Bailey Avenue to Riverdale Avenue .....	553.0
St. Lawrence Avenue, from West Farms Road to Westchester Avenue .....	2,492.3
Albany Road, from Van Cortlandt Park South to Fordham Road .....	9,376.9
Fuller Street, from Seddon Street to Zerega Avenue .....	581.6
Parker Street, from Westchester Avenue to Lyons Avenue .....	468.7
E. 193rd Street, from Bainbridge Avenue to Webster Avenue .....	662.5
Sputen Duyvil Road, from Johnson Avenue to north side of W. 230th Street....	995.0
E. 223rd Street, from Bronxwood Avenue to Laconia Avenue .....	1,591.0
E. 224th Street, from Bronxwood Avenue to Laconia Avenue .....	1,611.0
E. 225th Street, from Bronxwood Avenue to Laconia Avenue .....	1,632.0
E. 236th Street, from White Plains Road to Barnes Avenue .....	855.0
W. 235th Street, from Sputen Duyvil Parkway to Riverdale Avenue .....	1,429.0
Maclay Avenue, from Zerega Avenue to Walker Avenue .....	1,545.6
E. 198th Street, from Creston Avenue to Jerome Avenue .....	314.4
Glebe Avenue, from Zerega Avenue to Overing Street .....	1,236.4
Boston Road, from White Plains Road to N. L. of City .....	17,943.0
Taylor Avenue, from Gleason Avenue to Westchester Avenue .....	701.0
W. 233rd Street, from Broadway to Albany Road .....	520.0
Grand Avenue, from W. 181st Street to W. 184th Street .....	1,575.3
Leland Avenue, from Walker Avenue to Westchester Avenue .....	2,850.0
St. Lawrence Avenue, from Randolph Avenue to Westchester Avenue .....	379.2
Dorsey Street, from Zerega Avenue to Seddon Street .....	549.9
165th Street, from Grant Avenue to Walton Avenue .....	1,128.7
W. 172nd Street, from Jerome Avenue to Inwood Avenue .....	332.5
Randolph Avenue, from St. Lawrence Avenue to Beach Avenue .....	219.9
Baychester Avenue, from Boston Road to Pelham Bay Park .....	8,400.0
Albany Road, from Bailey Avenue to Bailey Avenue at 234th Street.....	1,360.0
Rosedale Avenue, from Walker Avenue to Tremont Avenue .....	1,172.0
Pugsley Avenue, from McGraw Avenue to Tremont Avenue .....	888.8
Corlear Avenue, from W. 230th Street to W. 240th Street .....	2,463.0
Glebe Avenue, from Westchester Avenue to Zerega Avenue .....	1,594.7
Whittier Street, from Seneca Avenue to Lafayette Avenue .....	675.0
W. 234th Street, from Kingsbridge Avenue to Albany Road .....	971.0
North Street, from Aqueduct Avenue to Jerome Avenue .....	594.7
W. 179th Street, from Osborne Place to Aqueduct Avenue .....	1,098.5
Morris Avenue, from Fordham Road to 190th Street, etc. ....	1,020.2
McGraw Avenue, from Unionport Road to Beach Avenue .....	2,842.7
	92,063.1=
	17.43 miles.
Completed to January 1, 1913 .....	272.11
Completed during year 1913 .....	17.43
Completed to January 1, 1914 .....	289.54

## MACADAM PAVEMENT—Assessment Work.

Existing January 1, 1914.

Title.	Kind.	Accepted.	Yardage.	Lin. Ft.	Yardage.	Lin. Ft.	Miles.
176th St. from Jerome to Tremont Aves.....	Macadam	2/19/01	9,174.3	2,641.26			
Gun Hill Rd. from Jerome Ave. to Bronx River.....	Macadam	1/18/02	21,189.1	3,935.30			
Mt. Hope Pl. from Jerome to Anthony Aves.....	Telford	11/29/02	7,253.8	2,098.45			
E. 164th St. from Summit to Anderson Aves.....	Telford	10/30/03	2,243.5	824.73			
Summit Ave. from W. 165th to W. 166th Sts.....	Telford	1/ 9/03	1,116.2	451.60			
E. 175th St. from Third Ave. to Southern Blvd.....	Telford	12/ 4/03	11,898.4	3,476.19			
Morris Ave. from E. 176th St. to Tremont Ave.....	Macadam	11/30/03	3,177.6	1,041.81			
Monroe Ave. from Belmont St. to Tremont Ave.....	Macadam	12/ 5/03	6,500.5	2,252.00			
Nelson Ave. from W. 164th St. to Boscobel Ave.....	Telford	8/ 1/05	12,129.0	3,732.00			
*Webster Ave. from Gun Hill Rd. to City Line.....	Tel. & Mac.	3/ 9/06	50,211.9	8,627.20			
Grand Boulevard & Concourse, etc., Law of 1907-8-9....	Macadam	.....	<u>174,855.5</u>	<u>51,918.00</u>			
					<b>299,749.8</b>	<b>80,898.54</b>	<b>15.30</b>

## MACADAM REMOVED DURING 1913.

Title.	Kind.	Accepted.	Yardage.	Lin. Ft.	Yardage.	Lin. Ft.	Miles.
Summit Ave. from W. 165th to W. 166th Sts.....	Telford	.....	1,116.2	451.60			
*Webster Ave. from Gun Hill Rd. to 233rd St. (part)..	Tel. & Mac.	.....	2,015.0	2,650.00	<u>13,131.2</u>	<u>3,101.60</u>	<u>0.59</u>
					<b>286,618.6</b>	<b>77,796.94</b>	<b>14.71</b>
					Total on January 1, 1914. ....		

**SQUARE YARDS OF PAVEMENT LAID AND RELAID, AND NET INCREASE OR DECREASE FROM 1893.**

**TRAP BLOCK.**

Year.	Laid		Repaved.	Increase.	Decrease.
	On Jan. 1st.	During Year.			
1894.....	317,628.2	13,822.7	66,651.2	.....	52,828.5
1895.....	264,799.7	3,502.5	22,000.1	.....	18,497.5
1896.....	246,302.2	12,876.3	2,301.5	10,574.8	.....
1897.....	256,877.0	.....	75,097.9	.....	75,097.9
1898.....	181,779.1	1,821.0	18,035.2	.....	16,214.2
1899.....	165,564.9	.....	6,849.7	.....	6,849.7
1900.....	158,715.2	.....	20,075.4	.....	20,075.4
1901.....	138,639.8	.....	9,320.8	.....	9,320.8
1902.....	129,319.0	.....	488.7	.....	488.7
1903.....	128,830.3	1,330.0	17,251.9	.....	15,921.9
1904.....	112,908.4	.....	9,670.1	.....	9,670.1
1905.....	103,238.3	.....	33,341.1	.....	33,341.1
1906.....	69,897.2	.....	5,843.7	.....	5,843.7
1907.....	64,053.5	.....	.....	.....	.....
1908.....	64,053.5	.....	3,735.2	.....	3,735.2
1909.....	60,318.3	.....	672.0	.....	672.0
1910.....	59,646.3	.....	7,988.1	.....	7,988.1
1911.....	51,658.2	.....	8,445.3 } *39,512.9 }	.....	47,958.2
1912.....	3,700.0	.....	.....	.....	.....
*1913.....	3,700.0	.....	1,226.3	.....	1,226.3
1914.....	2,373.7	.....	.....	.....	.....

\*The area of Trap Block has been reduced, as it has been found that the Trap Block laid as foundation for asphalt pavements was included in previous figures.  
Removed—151st St.; 155th St.; Elton Ave.

**GRANITE BLOCK.**

Year.	Laid		Repaved.	Increase.	Decrease.
	On Jan. 1st.	During Year.			
1894.....	233,647.7	124,170.0	.....	124,170.0	.....
1895.....	357,817.9	107,805.2	.....	107,805.2	.....
1896.....	465,623.1	172,175.0	712.0	171,363.0	.....
1897.....	636,986.1	135,959.1	47,568.1	88,391.0	.....
1898.....	725,377.1	40,707.4	6,491.6	34,215.8	.....
1899.....	759,592.9	8,947.0	.....	8,947.0	.....
1900.....	768,539.9	11,434.4	22,930.9	.....	11,496.5
1901.....	757,043.4	34,791.7	18,817.3	15,974.4	.....
1902.....	773,017.8	14,284.0	31,942.5	.....	17,658.5
1903.....	755,359.3	116,822.9	75,985.3	40,837.6	.....
1904.....	795,196.9	57,673.2	22,363.4	33,309.8	.....
1905.....	831,506.7	62,235.3	35,670.6	28,564.7	.....
1906.....	858,071.4	19,222.0	12,929.2	6,293.6	.....
1907.....	864,365.0	20,345.2	5,048.2	15,297.0	3,299.4
1908.....	876,362.6	53,578.99	25,504.3	28,074.69	.....
1909.....	904,437.29	61,946.5	56,689.0	5,257.5	.....
1910.....	909,694.79	71,840.8	48,253.0	23,317.8	.....
1911.....	933,012.59	41,882.1	16,521.6	24,860.5	.....
1912.....	957,873.09	164,843.77	100,087.60	64,756.17	.....
*1913.....	1,022,629.26	136,021.4	45,513.8	90,507.6	.....
1914.....	1,113,136.86	.....	.....	.....	.....

\*Laid—Westchester Ave.; Tiffany St.; River Ave.; German Pl.; Burnside Ave.; 170th St.; Cedar Ave.; W. 177th St.; Tremont Ave. (part); E. 133rd St.; Exterior St.; Fordham Rd.; Bailey Ave.; Southern Blvd.; 183rd St.; 180th St.; Webster Ave.; Webster Ave.; E. 156th St.; Brook Ave.; E. 150th St.; E. 151st St.; E. 155th St.; Elton Ave.; Melrose Ave. Viaduct; E. 179th St.; Webster Ave.

Removed or Relaid—Melrose Ave. Viaduct; Tremont Ave.; E. 156th St.; E. 150th St.; Elton Ave.; Brook Ave.; Webster Ave.

**SHEET ASPHALT.**

Year.	Laid On Jan. 1st.	Laid During Year.	Repaved.	Increase.	Decrease.
1896.....	22,000.0	2,430.5	.....	2,430.5	.....
1897.....	24,430.5	128,287.1	.....	128,287.1	.....
1898.....	152,717.6	57,206.6	.....	57,206.6	.....
1899.....	209,924.2	17,210.8	.....	17,210.8	.....
1900.....	227,135.0	76,308.4	1,764.8	74,543.6	.....
1901.....	301,678.6	72,292.6	.....	72,292.6	.....
1902.....	373,971.2	80,328.9	.....	80,328.9	.....
1903.....	454,300.1	192,852.2	780.0	192,072.2	.....
1904.....	646,372.3	97,201.1	.....	97,201.1	.....
1905.....	743,573.4	50,738.5	.....	50,738.5	.....
1906.....	794,311.9	35,654.5	.....	35,654.5	.....
1907.....	829,966.4	50,057.0	26,389.7	23,667.3	.....
1908.....	853,633.7	16,014.9	2,065.3	13,949.6	.....
1909.....	867,583.3	35,554.0	31,222.2	4,331.8	.....
1910.....	871,915.1	19,168.3	.....	19,168.3	.....
1911.....	891,083.4	62,068.2	1,521.1	60,547.1	.....
1912.....	951,630.5	119,136.93	9,221.8	109,915.13	.....
1913.....	1,061,545.63	120,337.8	35,422.0	84,915.8	.....
1914.....	1,146,461.43	.....	.....	.....	.....

\*Laid—Clay Ave.; White Plains Ave.; E. 179th St.; E. 173rd St.; E. 183rd St.; Fox St.; Melrose Ave. Viaduct; W. 231st St.; Bathgate Ave.; Cauldwell Ave.; Longwood Ave.; Beck St.; Kelly St.; E. 169th St.; E. 156th St.; Boston Rd.; Jackson Ave.; W. 230th St.; Summit Ave.; E. 180th St.; Faile St.; Boston Rd. (Also contracts included in Bituminous Concrete, report of 1912, done under private permit.)

Removed or Relaid—Boston Rd.; Melrose Ave. Viaduct; Cauldwell Ave.; Fox St.

**BLOCK ASPHALT.**

Year.	Laid On Jan. 1st.	Laid During Year.	Repaved.	Increase.	Decrease.
1901.....	.....	6,644.7	.....	6,644.7	.....
1902.....	6,644.7	.....	.....	.....	.....
1903.....	6,644.7	97,483.9	.....	97,483.9	.....
1904.....	104,128.6	129,990.8	.....	129,990.8	.....
1905.....	234,119.4	80,515.3	.....	80,515.3	.....
1906.....	314,634.7	79,408.6	.....	79,408.6	.....
1907.....	394,043.3	220,230.16	.....	220,230.16	.....
1908.....	614,273.46	164,877.75	.....	164,877.75	.....
1909.....	779,151.21	239,061.20	.....	239,061.20	.....
1910.....	1,018,212.41	133,693.8	.....	133,693.8	.....
1911.....	1,151,906.21	134,178.4	.....	134,178.4	.....
1912.....	1,286,084.61	69,559.82	23,725.2	45,834.62	.....
*1913.....	1,331,919.23	54,858.0	36,907.5	17,950.5	.....
1914.....	1,349,869.73	.....	.....	.....	.....

\*Laid—Walker Ave.; Fox St.; Melrose Ave. Viaduct; Aqueduct Ave.; W. 231st St.; Morris Ave.; Cauldwell Ave.; Tiffany St.; Longwood Ave.; Bailey Ave.; E. 165th St.; Longfellow Ave.; E. 165th St.; Barretto St.; E. 170th St.; Bedford Park Boulevard; Heath Ave.

Removed or Relaid—Boston Rd.; White Plains Rd.; Melrose Ave. Viaduct; Cauldwell Ave.; Jackson Ave.; 133rd St.; Southern Boulevard; Morris Ave.; 161st St. (omitted from previous report).

**IRON SLAG BLOCK.**

Year.	Laid On Jan. 1st.	Laid During Year.	Repaved.	Increase.	Decrease.
1907.....		5,902.1		5,902.1	
1908.....	5,902.1	13,878.2		13,878.2	
1909.....	19,780.3	12,026.9		12,026.9	
1910.....	31,807.2				
1911.....	31,807.2				
1912.....	31,807.2				
1913.....	31,807.2				
1914.....	31,807.2				

**BRICK PAVEMENT.**

Year.	Laid On Jan. 1st.	Laid During Year.	Repaved.	Increase.	Decrease.
1896.....	1,122.7	13,750.0		13,750.0	
1897.....	14,872.7	9,678.9		9,678.9	
1898.....	24,551.6	10,273.0		10,273.0	
1899.....	34,824.6				
1900.....	34,824.6				
1901.....	34,824.6	5,560.0		5,560.0	
1902.....	40,384.6				
1903.....	40,384.6	2,033.6	2,033.6		
1904.....	40,384.6	389.9	389.9		
1905.....	40,384.6				
1906.....	40,384.6				
1907.....	40,384.6				
1908.....	40,384.6	2,560.3	23,907.1		21,346.8
1909.....	19,037.8		3,254.0		3,254.0
1910.....	15,783.8				
1911.....	15,783.8		9,502.2		9,502.2
1912.....	6,281.6				
*1913.....	6,281.6		4,400.1		4,400.1
1914.....	1,881.5				

\*Removed—Beck St.; Kelly St.; Clay Ave.; 156th St.

**WOOD BLOCK PAVEMENT.**

Year.	Laid On Jan. 1st.	Laid During Year.	Repaved.	Increase.	Decrease.
1904.....		8,101.6		8,101.6	
1905.....	8,101.6				
1906.....	8,101.6	4,521.0		4,521.0	
1907.....	12,622.6	56,320.6		56,320.6	
1908.....	68,943.2	23,889.3		23,889.8	
1909.....	92,883.0				
1910.....	92,883.0				
1911.....	92,883.0	7,648.3		7,648.3	
1912.....	100,481.3	20,662.2		20,662.2	
1913.....	121,143.5	647.9		647.9	
1914.....	121,791.4				

\*Laid—Southern Boulevard.

**MEDINA BLOCK PAVEMENT.**

Year.	Laid On Jan. 1st.	Laid During Year.	Repaved.	Increase.	Decrease.
1906.....	.....	3,953.8	.....	3,953.8	.....
1907.....	3,953.8	.....	.....	.....	.....
1908.....	3,953.8	.....	.....	.....	.....
1909.....	3,953.8	.....	.....	.....	.....
1910.....	3,953.8	.....	.....	.....	.....
1911.....	3,953.8	.....	.....	.....	.....
1912.....	3,953.8	.....	.....	.....	.....
1913.....	3,953.8	.....	.....	.....	.....
1914.....	3,953.8	.....	.....	.....	.....

**BITUMINOUS CONCRETE.**

Year.	Laid On Jan. 1st.	Laid During Year.	Repaved.	Increase.	Decrease.
1911.....	.....	8,937.9	.....	8,937.9	.....
1912.....	8,937.9	125,847.43	.....	125,847.43	.....
1913.....	134,785.33	110,540.4	28,029.1	82,511.3	.....
1914.....	217,296.63	.....	.....	.....	.....

\*Laid—Commonwealth Ave.; Lind Ave.; Aqueduct Avt.; E. 173rd St.; Aqueduct Ave.; Manida St.; Walton Ave.; W. 261st St.; Devoe Terrace; St. Lawrence Ave.; Ogden Ave.; 202nd St.; Morris Ave.; Findlay Ave.; Hoe Ave.; Morris Ave.; Nelson Ave.; Vyse Ave.; Garrison Ave.; Vyse Ave.; Brandt Pl.; W. 174th St.; Kingsbridge Ave.; Morris Ave.; Boston Rd.

Removed—(All contracts done under private permits in 1912, classified as bituminous concrete, should have been asphalt, transferred to asphalt to make corrections.)



Year Prior to.	Trap Rock		Granite Block		Brick		Wood Block		Sheet Asphalt		Bituminous Concrete	
	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.
1874	29,150.0	1.0										
1874												
1875	14,085.0	0.49										
1876	45,960.0	1.04										
1877												
1878												
1879												
1880												
1881												
1882												
1883	18,037.0	0.58										
1884	25,105.0	1.21										
1885	20,486.3	0.86										
1886			833.3	0.06								
1887	4,373.0	0.13										
1888	14,385.0	0.40	10,575.0	0.27								
1889	15,203.9	0.79	30,860.0	1.39								
1890	41,629.4	2.39	8,210.0	0.30								
1891	35,125.0	2.25	64,376.0	1.74								
1892	21,437.7	1.34	63,904.5	2.58								
1893	32,640.9	2.04	54,889.9	2.79								
1894	13,822.7	0.89	124,170.2	5.53								
1895	3,502.5	0.26	107,805.2	3.73					22,000.0	0.72		
1896	12,876.3	0.80	172,075.0	6.77	13,750.0	0.57			2,430.52	0.10		
1897			135,959.1	5.87	9,678.9	0.22			128,287.1	4.55		
1898	1,321.0	0.166	34,215.8	0.884	10,273.0	0.285			57,206.6	1.458		
1899			8,947.0	0.178					17,210.8	0.90		
1900			11,434.4	0.56					74,543.6	3.373		
1901			34,791.7	1.568	5,560.0	0.316			72,292.6	2.995		
1902			14,284.0	0.821					80,328.9	3.44		
1903			116,822.9	4.441					192,072.2	8.665		
1904			57,673.2	2.197			8,101.6	0.46	97,201.1	4.018		
1905			62,235.3	1.829					50,738.5	1.999		
1906			19,222.8	0.711			4,521.0	0.125	35,654.5	1.592		
1907			20,345.2	0.831			56,320.6	1.733	50,057.0	1.956		
1908			53,578.99	2.274	1,533.3	0.083	23,889.8	1.079	16,014.9	1.702		
1909			61,946.5	2.408					35,554.0	1.894		
1910			71,840.8	2.945					19,168.3	0.949		
1911			41,382.1	1.744			7,648.3	0.229	62,068.2	3.113	8,937.9	0.485
1912			164,843.77	5.613			20,662.2	0.733	119,136.93	5.564	125,847.43	6.193
1913			136,021.4	5.013			647.9	0.017	120,337.8	5.368	110,540.4	6.522

Year prior to.	Block Asphalt		Medina Block		Iron Slag Block		Total Paved Miles Each Year	Miles at End of Year.
	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.		
1874							1.0	1.0
1874							.....	1.0
1875							0.49	1.49
1876							1.04	2.53
1877							.....	2.53
1878							.....	2.53
1879							.....	2.53
1880							.....	2.53
1881							.....	2.53
1882							.....	2.53
1883							0.58	3.11
1884							1.21	4.32
1885							0.86	5.18
1886							0.06	5.24
1887							0.13	5.37
1888							0.67	6.04
1889							2.18	8.22
1890							2.69	10.91
1891							3.99	14.90
1892							3.92	18.82
1893							4.83	23.65
1894							6.42	27.82
1895							4.71	31.81
1896							8.24	40.05
1897							10.64	46.80
1898							2.793	50.627
1899							1.078	51.316
1900							3.933	53.195
1901							4.879	57.097
1902							4.261	59.718
1903	97,483.9	4.197					17.303	71.461
1904	129,990.8	5.210					11.885	81.876
1905	80,515.3	3.695					7.523	86.219
1906	79,408.6	3.023	3,953.8	0.282			5.733	90.980
1907	220,230.16	9.880			5,902.1	0.251	14.651	104.549
1908	171,522.45	6.963			13,878.2	0.628	12.729	114.250
1909	239,061.20	9.961			12,026.9	0.666	14.999	125.083
1910	133,693.80	6.062					9.956	132.585
1911	134,178.4	7.252					12.823	143.998
1912	69,559.82	3.675					21.778	161.592
1913	54,858.0	2.780					19.700	174.604

TOTAL MILEAGE OF PAVEMENT EXISTING AT END OF EACH YEAR, 1902 TO 1913 INCLUSIVE

<u>YEAR</u>	<u>MILES</u>
1902	59.7
1903	71.5
1904	81.9
1905	86.2
1906	91.0
1907	104.5
1908	114.3
1909	125.1
1910	132.6
1911	144.0
1912	161.6
1913	174.6

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**AVERAGE PRICES BASED ON PRICES OF SUCCESSFUL BIDDERS.**

Kind.	1909		1910		1911		1912		1913	
	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.
Earth Excavation, cu. yds. ....	34	\$0.46	22	\$0.48	28	\$0.47	20	\$0.46	28	\$0.43
Rock Excavation, cu. yds. ....	32	1.35	20	1.06	25	1.33	18	1.30	29	1.40
Excavation of all kinds, cu. yds. ....	8	.64	5	.28	14	.65	14	.50	15	.61
Filling, cu. yds. ....	41	.15	25	.15	39	.14	33	.15	42	.12
New Curb, lin. ft. ....	69	.83	67	.82	81	.82	79	.90	72	.83
Old Curb, lin. ft. ....	31	.31	48	.32	56	.32	49	.35	42	.28
Old Curb adjusted, lin. ft. ....	..	....	..	....	7	.07	20	.12	14	.11
Granite Curb, lin. ft. ....	..	....	1	.50	3	1.37	5	1.71	5	1.26
Old Granite Curb, lin. ft. ....	..	....	..	....	..	....	1	.75	..	....
Cement Curb, lin. ft. ....	..	....	..	....	..	....	2	.60	....	....
New Flagging, sq. ft. ....	42	.24	27	.23	34	.25	16	.26	15	.24
Old Flagging, sq. ft. ....	11	.03	4	.02	15	.05	8	.04	9	.04
Cement Flagging, sq. ft. ....	1	.19	1	.14	10	.18	30	.19	36	.17
New Bluestone Bridgestone, sq. ft....	35	.47	26	.47	44	.51	31	.43	38	.50
Old Bluestone Bridgestone, sq. ft. ..	2	.13	7	.11	11	.11	11	.10	16	.12
New Granite Bridgestone, sq. ft....	..	....	..	....	..	....	2	.77	8	.70
Sheet Asphalt, sq. yds. ....	8	1.27	14	1.09	16	1.17	19	1.57	14	1.25
Block Asphalt, 3-in., sq. yds. ....	3	1.99	24	1.77	27	1.74	18	1.70	9	1.94
Block Asphalt, 2-in., sq. yds. ....	..	....	..	....	..	....	..	....	..	....
New Granite Block, sq. yds. ....	6	2.86	7	2.25	9	3.03	*4	2.76	*5	3.03
Modern Granite Block, sq. yds. ....	..	....	..	....	1	3.07	7	3.73	3	3.45
Granite Block, redressed, sq. yds. ..	2	1.34	1	1.05	1	1.19	2	1.18	9	1.33
Granite Block, relaid, sq. yds. ....	..	....	..	....	..	....	1	.50	..	....
Wood Block, sq. yds. ....	..	....	1	2.48	6	2.75	2	2.90	..	....
Bituminous Concrete, sq. yds. ....	..	....	..	....	7	.89	21	1.23	17	1.06

\* Sand.

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**AVERAGE PRICES BASED ON PRICES OF SUCCESSFUL BIDDERS—Continued.**

Kind.	1909		1910		1911		1912		1913	
	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.
Macadam, sq. yds. ....	..	....	2	1.25	2	1.15	1	.70	..	....
Paved Gutters, sq. yds. ....	..	....	..	....	2	1.50	1	1.00	..	....
Concrete, cu. yds. ....	29	5.55	44	5.38	53	5.32	64	5.50	..	....
Concrete, Class A, cu. yds. ....	2	8.00	..	....	6	10.17	3	7.00	1	9.00
Concrete, Class B, cu. yds. ....	2	6.75	..	....	8	5.44	5	4.59	52	5.14
Cinder Concrete, cu. yds. ....	..	....	..	....	1	5.20	1	2.00	..	....
Cinder Filling, cu. yds. ....	..	....	..	....	1	.60	1	.10	..	....
Dry Rubble Masonry, cu. yds. ....	34	1.69	22	1.47	32	1.76	30	1.55	33	1.69
Masonry in Mortar, cu. yds. ....	8	3.97	3	3.17	10	3.45	3	4.96	7	4.69
Broken Range Ashlar Mas., cu. yds.	1	9.00	..	....	..	....	3	13.00	4	9.85
Brick Masonry, cu. yds. ....	..	....	..	....	3	13.34	1	10.00	2	11.25
Top Soil, cu. yds. ....	1	1.50	..	....	..	....	..	....	2	.88
Piles, lin. ft. ....	2	.37	..	....	3	.33	..	....	..	....
Lumber, B. M., feet ....	11	22.36	7	13.00	22	29.91	12	20.00	12	20.58
Iron and Steel, pounds ....	1	.05	2	.045	1	.032	2	.04	1	.03
Steel Rods, pounds ....	1	.05	2	.045	2	.045	..	....	..	....
Vitrified Pipe, 6-in. Diam., lin. ft....	1	1.50	..	....	..	....	..	....	13	1.50
Vitrified Pipe, 8-in. Diam., lin. ft....	1	.75	..	....	..	....	..	....	2	.63
Vitrified Pipe, 10-in. Diam., lin. ft. ..	..	....	..	....	1	1.50	..	....	..	....
Vitrified Pipe, 12-in. Diam., lin. ft. 16	..	.80	16	.62	28	.83	24	.55	25	.84
Vitrified Pipe, 15-in. Diam., lin. ft. 3	3	1.97	2	1.25	5	2.20	1	1.00	..	....
Vitrified Pipe, 18-in. Diam., lin. ft. 3	3	1.33	1	1.00	2	3.00	1	3.00	..	....
Vitrified Pipe, 20-in. Diam., lin. ft. 2	2	1.37	..	....	..	....	..	....	..	....
Vitrified Pipe, 24-in. Diam., lin. ft. 1	1	1.90	1	2.50	1	2.50	..	....	..	....
Vitrified Pipe, 30-in. Diam., lin. ft. ..	..	....	..	....	1	6.00	..	....	..	....
Vitrified Pipe, 4-in. Diam., lin. ft... ..	..	....	..	....	..	....	..	....	1	.25
New Iron Railing, lin. ft. ....	1	1.00	..	....	1	4.00	2	2.25	4	1.41

New Iron Picket Fence, lin. ft.....	..	....	..	....	..	....	2	2.38	1	2.25
Old Iron Picket Fence, lin. ft.....	..	....	..	....	..	....	1	.60	..	....
Standard Water Pipe, 12-in., lin. ft. ..	..	....	..	....	1	2.00	..	....	..	....
Standard Water Pipe, 16-in., lin. ft. ..	..	....	..	....	..	....	..	....	..	....
Standard Water Pipe, 20-in., lin. ft. ..	..	....	..	....	1	3.50	..	....	..	....
Cast Iron Gutters, lin. ft. ....	..	....	..	....	..	....	2	1.38	1	1.00
Manhole, each .....	3	51.67	..	....	3	60.00	4	35.00	1	150.00
Waterproofing, sq. ft. ....	..	....	..	....	2	.06	1	.07	..	....
Inlets, Type C, each .....	..	....	..	....	..	....	..	....	1	75.00
Woven Wire Fabric, sq. ft. ....	..	....	..	....	..	....	1	.07	..	....
Cast Iron Inlets, each .....	..	....	..	....	..	....	..	....	2	70.00
Inlets, Type A, each .....	3	48.33	3	46.67	4	55.00	1	75.00	..	....
Inlets, Type B, each .....	3	38.33	2	55.00	1	15.00	4	47.50	3	45.00
Railing, Type A, lin. ft. ....	..	....	..	....	1	5.00	1	5.00	..	....
Railing, Type B, lin. ft. ....	..	....	..	....	1	2.50	1	2.00	..	....
Guard Rail, lin. ft. ....	33	.19	22	.15	30	.21	26	.18	32	.24
New Bluestone Steps, cu. ft. ....	..	....	..	....	..	....	3	2.91	4	3.52
Granite Coping, Newels, etc., cu. ft. ..	..	....	..	....	..	....	3	3.08	2	3.42
Sewer Manhole Heads, each .....	..	....	..	....	1	14.00	..	....	..	....
Receiving Basins, built or rebuilt, each .....	3	133.33	3	196.67	3	127.50	4	75.00	6	84.00
Parging Rails, lin. ft. ....	..	....	..	....	..	....	..	....	2	.05
Cut Granite, cu. ft. ....	..	....	..	....	..	....	..	....	1	8.00
Iron Conduit, 2-in., lin. ft. ....	..	....	..	....	..	....	..	....	1	.50
Iron Conduit, 3-in., lin. ft. ....	..	....	..	....	..	....	..	....	1	.50
Iron Conduit, 4-in., lin. ft. ....	..	....	..	....	..	....	..	....	1	.50
Cast Iron Pipe, 24-in., lin. ft. ....	..	....	..	....	..	....	..	....	1	6.00
Masonry Inlets, each .....	..	....	..	....	..	....	..	....	1	10.00

**AVERAGE PRICES BASED ON PRICES OF SUCCESSFUL BIDDERS.—Continued.**

Kind.	1909		1910		1911		1912		1913	
	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.	No. of Bids.	Aver. Price.
Cast Iron Lamp Posts, each .....	..	....	..	....	..	....	..	....	1	30.00
Bronze Lamps, each .....	..	....	..	....	..	....	..	....	1	30.00
Lamp Posts and Lamps, each .....	..	....	..	....	..	....	..	....	2	30.00
Sodding, sq. yd. ....	..	....	..	....	..	....	..	....	3	.15
Double Road Boxes, each .....	..	....	..	....	..	....	..	....	1	20.00
Limestone Coping, lin. ft. ....	..	....	..	....	..	....	..	....	1	1.50
Limestone Belt Course, lin. ft. ....	..	....	..	....	..	....	..	....	1	4.00
Limestone Balustrade, lin. ft. ....	..	....	..	....	..	....	..	....	1	7.20

## SCHEDULE "A".

Relative to Construction.

### SUMMARY OF CONTRACTS.

#### Contracts in Force, January 1, 1913.

Reg. Grad., etc. ....	33
Pav., etc. ....	24
Bridges and Viaducts .....	3
Miscellaneous .....	4
	<hr/>
Total .....	64

#### Contracts Executed During Year Ending 1913.

Reg. Grad., etc. ....	36
Pav., etc. ....	51
Bridges and Viaducts .....	..
Miscellaneous .....	12
	<hr/>
Total .....	99

#### Contracts Completed During Year Ending 1913.

Reg. Grad., etc. ....	44
Pav., etc. ....	*66
Bridges and Viaducts .....	2
Miscellaneous .....	13
	<hr/>
Total .....	125

\* Including one contract declared abandoned.

#### Contracts in Force, December 31, 1913.

Reg. Grad., etc. ....	25
Paving, etc. ....	9
Bridges and Viaducts .....	1
Miscellaneous .....	3
	<hr/>
Total .....	38

During the year, there were 240 reports made to the Local Board, representing an approximate value of \$3,700,000, and 57 miles.

The estimates prepared for letting were 125, representing an estimated value of \$3,150,000 and an approximate length of 48 miles.

In the cement laboratory, there were 7,765 briquettes made and 7,765 briquettes broken, representing 226,507 bags of cement.



## SCHEDULE "B".

### Relative to Field and Office Work.

Partial Payments made .....	229
Payments on Acceptance, Final Payments, and Payments on Retained Amounts made .....	173
Preliminary Estimates, made and forwarded .....	281
Special Reports made .....	482
Working Plans, completed .....	157
Detail Plans, completed .....	13
Specifications, made up .....	2
Specifications, checked .....	37
Tracings made .....	43
Proofs read .....	3
Studies .....	103
Plans checked .....	46
Profiles made .....	8
Sketches made, showing Drainage Conditions .....	8
Assessment Lists checked .....	72
Inspector's Payrolls, in duplicate, made and forwarded .....	..
Supplementary Payrolls, in duplicate, made and forwarded .....	..
Special Payrolls, in duplicate, made and forwarded .....	..
Engineer's Payrolls, in duplicate, made and forwarded .....	..
Record Plans, completed .....	23

In addition to the above, there have been a great many cross-sections plotted and figured and general office work done.

During the year ending December 31, 1913, about 4,000 communications, also work for specifications have been forwarded, relating to this Bureau.

The contracts in force, December 31, 1913, represent a length of about 22 miles of uncompleted work of all kinds, in addition to the lengths shown as completed during the year.

## SCHEDULE "A."

### Relative to Construction.

#### GENERAL SUMMARY OF QUANTITIES AND CLASSES OF WORK.

170,057.6	cu. yds.	Earth Excavation.
103,866.9	cu. yds.	Rock Excavation.
4,423.2	cu. yds.	Excavation (unclassified).
656,844.9	cu. yds.	Filling.
134,081.84	lin. ft.	New Bluestone Curb.
70,038.2	lin. ft.	Old Bluestone Curb.
4,048.3	lin. ft.	Granite Curb.
152,287.1	sq. ft.	New Bluestone Flagging.
36,316.0	sq. ft.	Old Bluestone Flagging.
328,269.96	sq. ft.	Cement Flagging.
74,734.6	sq. ft.	New Bridgestone.
10,046.0	sq. ft.	Old Bridgestone.

28,124.5	cu. yds.	Dry Rubble Masonry.
283.3	cu. yds.	Masonry in Mortar.
58.0	cu. yds.	Random Ashlar Masonry.
200.4	cu. yds.	Brick Masonry.
2,535.0	cu. yds.	Concrete, Class A.
54,087.11	cu. yds.	Concrete, Class B.
55,482.5	sq. yds.	New Granite Block Pavement laid on concrete.
48,655.1	sq. yds.	Granite Block Pavement, redressed and relaid on concrete.
31,883.8	sq. yds.	New Granite Block, laid on sand.
120,337.8	sq. yds.	Sheet Asphalt.
54,858.0	sq. yds.	Asphalt Block.
647.9	sq. yds.	Wood Block.
42.1	sq. yds.	Macadam.
110,540.4	sq. yds.	Bituminous Pavement.
7,085.8	lin. ft.	Railroad Construction, supervised.
5,345.3	lin. ft.	Vitrified Drain Pipe.
64,637.8	ft. B. M.	Lumber.
55,843.4	lin. ft.	Fence or Guard Rail.
4,897.0	lin. ft.	Piles.
50.0	lin. ft.	Balustrade.
107.6	lin. ft.	Gas Pipe Railing.
40.4	lin. ft.	Standard Water Pipe.
295.3	cu. ft.	Bridgestone and Granite Steps.
1,214.3	cu. ft.	Granite Coping, Newels, etc.
1,520.1	lin. ft.	New Iron Railing.
347,344.4	pounds	Iron and Steel.
120.2	sq. yds.	Paved Gutters.
20,275.9	sq. ft.	Waterproofing.
1,726.4	sq. ft.	Woven Wire Fabric.
2,762.0	sq. yds.	Sodding.
2		Masonry Inlets.
5		Receiving Basins, built or rebuilt.
11		Catch Basins, built or rebuilt.
24		Manholes, built or rebuilt.
2		Inlets, Type A.
6		Inlets, Type B.
10		Lamp Posts or Lamps.
71	sq. yds.	Face Concrete.
45	lin. ft.	Cornice.
60	cu. yds.	Reinforced Concrete.
57.3	cu. yds.	Cinder Concrete.
2		Maintenance of Traffic.
1		Boulder.
18		Spurs.
1,560.6	sq. yds.	Asphalt Sidewalk.
219.7	lin. ft.	Cement Curb.
15.0	cu. yds.	Cinder Filling.
28,298.92	lin. ft.	Curb, adjusted.
13.6	lin. ft.	Cast Iron Gutters.
200.0	lin. ft.	Iron Conduit, 3-inch.
4,400.1	sq. yds.	Brick Pavement, removed.
1,326.3	sq. yds.	Trap Block, removed.
782.1	sq. yds.	Old Granite Block on concrete removed.
44,731.7	sq. yds.	Granite Block on sand, removed.

28,029.1	sq. yds.	Bituminous Concrete, deducted, due to previous error.
37,500.2	sq. yds.	Macadam removed.
1,089.5	cu. yds.	Cement Concrete.
1,900.0	lin. ft.	Box Drain removed.
8,850.8	sq. ft.	Granite Bridgestone.
18.0	cu. yds.	Broken Range Ashlar Masonry.
200.0	lin. ft.	Iron Conduit, 2-inch.
35.0	lin. ft.	Iron Conduit, 4-inch.
35,422.0	sq. yds.	Sheet Asphalt removed.
36,907.5	sq. yds.	Asphalt Block removed.
1		Maintenance Water Supply Service.
3		Lowering Iron Covers of Shaft.
1		Double Road Box.
68.0	cu. yds.	Top Soil.
13,513.0	lin. ft.	Parging.

### SCHEDULE "B".

#### Field Work, Surveys and Measurements.

#### CONSTRUCTION.

Grade Stakes Lin. Ft.	Wall Stakes Lin. Ft.	Curb Stakes Lin. Ft.	Cross Sections Lin. Ft.	Bench Marks Length of Runs	Examina- tions Number	Number of Works
355,667	19,803	320,392	99,935	212,851	1,322	163

#### PRELIMINARY.

Centre Line Lin. Ft.	Cross Sections Lin. Ft.	Bench Levels Lin. Ft.	Examinations Number	No. of Works
194,942.8	162,739	165,052	240	122

### SCHEDULE "B"

#### Relative to Field and Office Work.

Field Work No. of Borings	Boring Examinations Lin. Ft. of Borings
31,703	70,120

**OFFICE OF THE PRESIDENT OF THE BOROUGH OF THE BRONX.**

Report of the Operations of the Bureau of Highways Borough of The Bronx, During the Year Ending December 31st, 1913.

**SCHEDULE "A."**

Financial Statement of Contracts, in Force During Year Ending December 31, 1913, on Which Payments Have Been Certified.  
Amount of 70 Per cent. Payments.

Title of Contracts.	Date of Execution.	Estimated Cost of Work.	Total Amount Earned.	Total Amount Retained.	Total Amount Certified.	Amount Certified During Year.
<b>Regulating, Grading, etc.</b>						
STORROW ST.—Public Pl. at 177th St. to Unionport Rd....	6/27/13	\$13,747.91	\$13,105.20	\$1,965.78	\$11,139.42	\$11,139.42
GRAY ST.—Tremont Ave. to Unionport Rd. ....	6/23/13	14,988.10	13,347.40	2,002.11	11,345.29	11,345.29
E. 222ND ST.—Bronxwood to Arnow Aves. ....	6/ 5/13	101,764.00	23,550.00	3,532.50	20,017.50	20,017.50
VAN NEST AVE.—West Farms Rd. to Bear Swamp Rd. ....	6/ 5/13	36,508.96	20,894.95	3,134.24	17,760.71	17,760.71
ZEREGA AVE.—Ludlow to Westchester Aves. ....	9/17/12	32,643.50	32,118.90	4,817.84	27,301.06	27,301.06
W. 172ND ST.—Aqueduct Ave. to Jessup Ave. ....	6/ 3/13	15,148.80	15,245.70	2,286.86	12,958.84	12,958.84
LUDLOW AVE.—White Plains Rd. to Tremont Ave. ....	12/21/11	68,213.50	47,976.40	14,392.92	35,583.48	26,648.58
TAYLOR AVE.—Westchester to Wood Aves. ....	8/20/13	5,549.75	3,252.25	487.84	2,764.41	2,764.41
BRONX BOULEVARD—Burke Ave. to Gun Hill Rd. ....	7/ 6/11	57,961.05	38,707.50	11,612.25	27,095.25	12,550.65
WHITE PLAINS RD.—Old Unionport Rd. to Thwaites Pl....	9/ 4/12	58,487.60	40,800.00	6,120.00	34,680.00	34,680.00
FIELDSTON RD.—Mosholu Ave. to 303 ft. N. of W. 250th St.	8/14/13	53,670.00	16,885.00	2,532.75	14,352.25	14,352.25
E. 174TH ST.—So. Boulevard to Boone Ave.....	8/ 7/13	6,888.00	3,998.80	599.82	3,398.98	3,398.98
BEACH AVE.—Bronx River Ave. to Gleason Ave., etc.....	4/ 9/13	79,995.40	33,290.00	4,993.50	28,296.50	28,296.50
BEACH AVE.—Gleason to Walker Aves. ....	7/17/13	27,465.00	6,470.00	970.50	5,499.50	5,499.50
NEWTON AVE.—W. 253rd to W. 260th Sts. ....	8/13/13	31,140.00	4,040.00	606.00	3,434.00	3,434.00
W. 234TH ST.—Kingsbridge Ave. to Tibbett Ave.....	12/ 4/13	10,813.50	3,393.00	508.95	2,884.05	2,884.05
PLIMPTON AVE.—Boscobel Ave. to Featherbed La.....	11/23/11	10,556.80	2,206.00	661.80	1,544.20	1,544.20
HUNTS POINT RD.—So. Boulevard to East River .....	3/27/06	67,531.00	50,380.00	15,114.00	35,266.00	.....
TREMONT AVE.—Ludlow Ave. to Ft. Schuyler Rd.....	4/29/12	55,441.00	4,365.00	654.75	3,710.25	3,710.25
<b>Regulating, Grading and Steps.</b>						
E. 187TH ST.—Valentine to Marion Aves.....	6/27/13	8,207.50	3,902.00	585.30	3,316.70	3,316.70
<b>Transverse Road At</b>						
E. 174TH ST. in connection with Grand Boul'd and Conc....	11/ 1/11	102,761.00	86,373.10	8,637.31	77,735.79	30,145.14
<b>Repaving Bituminous Concrete.</b>						
BOSTON RD.—White Plains Rd. to City Line .....	10/ 2/13	64,366.25	27,658.85	4,148.83	23,510.02	23,510.02
<b>Repaving Sheet Asphalt.</b>						
BOSTON RD.—Prospect Ave. to So. Boulevard .....	6/20/13	25,274.00	13,976.00	2,098.40	11,879.60	11,879.60
<b>Repaving Granite Blocks.</b>						
WEBSTER AVE.—Bedford Pk. Boul. to Gun Hill Rd.....	5/24/12	141,303.90	127,973.60	12,797.36	115,176.24	90,435.78
WESTCHESTER AVE.—So. Boulevard to Ward Ave.....	6/ 4/13	82,546.50	33,366.60	5,004.99	28,361.61	28,361.61
WEBSTER AVE.—Gun Hill Rd. to 233rd St.....	6/23/13	155,321.75	53,676.25	8,051.44	45,624.81	45,624.81
TREMONT AVE.—Third Ave. to Boston Rd.....	6/25/13	67,812.00	10,818.00	1,622.70	9,195.30	9,195.30
<b>Total Partial Payments .....</b>		<b>\$1,896,056.77</b>	<b>\$731,770.50</b>	<b>\$119,938.74</b>	<b>\$611,831.76</b>	<b>\$482,755.15</b>

**CONTRACTS IN FORCE—NO WORK DONE.**

Regulating, Grading, Etc.		
Title of Contracts.	Date of Execution.	Estimated Cost of Work.
E. 190TH ST.—Jerome to Creston Aves.....	12/ 4/13	\$2,989.00
FRISBY AVE.—Walker Ave. to Zerega Ave.....	12/ 4/13	6,689.90
VIRGINIA AVE.—Westchester Ave. to Ludlow Ave.....	12/ 5/13	21,118.00
UNIONPORT RD.—Morris Park Ave. to Walker Ave.....	8/22/13	10,877.00
PARK ST.—E. 149th St. to Westchester Ave.....	11/12/13	30,807.00
Paving, Bituminous Concrete.		
BAILEY AVE.—W. 238th St. to Kingsbridge Rd.....	10/10/13	44,185.12
Paving, Granite Block.		
E. 167TH & E. 169TH STS.—Boston Rd. to Southern Blvd..	7/ 2/13	20,883.60
TREMONT AVE.—Webster Ave. to Third Ave.....	12/ 9/13	18,388.25
Miscellaneous.		
Guard Rail, S. E. Cor. 178TH ST. & Prospect Ave.....	12/18/13	88.20
Guard Rail, E. 205TH ST., Etc.....	8/20/13	27.00
Catch Basin, PALISADE PL., 100 feet East of Sedgwick Ave..	12/30/13	75.00
<b>Total estimated cost .....</b>		<b>\$156,128.07</b>

**PAYMENTS ON ACCEPTANCE, FINAL AND RETAINED AMOUNTS.**

Title of Contracts.	Date of Execution.	Date of Completion.	Estimated Cost of Whole Work.	Actual Cost of Whole Work.	Approximate Variation between Estimated and Actual Cost of Whole Work Shown in Percentage.	Total Amount Retained as Security for Repairs.	Total Amount Certified.	Total Amount Certified		Remarks.
								During Year.		
<b>Regulating, Grading, etc. PAYMENTS ON ACCEPTANCE.</b>										
VAN CORTLANDT AVE.—Sedgwick Ave. to Albany Rd. ....	7/12/11	1/15/13	\$13,442.80	†\$14,126.35	+ 5.08	.....	\$14,126.35	\$4,117.47	\$390 chgd. overtime	Complete.
THERIOT AVE.—Wood to Gleason Aves.....	2/ 8/12	1/ 8/13	15,708.00	15,681.47	- 0.17	.....	15,681.47	6,072.57		Complete.
JEROME AVE.—190th St. to Van Cortlandt Ave....	10/25/10	1/24/13	55,344.00	58,207.86	+ 5.17	.....	58,207.86	18,444.71		Complete.
GARFIELD ST.—Morris Pk. Ave. to N. Y., N. H. & H. R. R. ....	12/27/11	2/ 1/13	11,281.40	9,221.29	-18.25	.....	9,221.29	3,775.29		Complete.
SEDGWICK AVE.—Van Cortlandt Ave. to 430 feet northerly .....	11/ 8/11	1/21/13	2,422.20	†2,041.57	-15.68	.....	2,041.57	2,041.57	Complete, \$247.50 chg. overtime.	
E. 242ND ST.—Katonah Ave. to City Line.....	11/19/12	4/ 9/13	2,110.00	2,076.96	- 1.56	.....	2,076.96	2,076.96		Complete.
W. 230TH ST.—Bailey Ave. to Riverdale Ave.....	9/ 5/12	5/ 6/13	9,954.50	9,702.05	- 2.54	.....	9,702.05	6,297.80		Complete.*
Compl. ST. LAWRENCE AVE.—West Farms Rd. to Westchester Ave. ....	2/20/13	5/ 9/13	4,781.00	4,639.03	- 2.97	.....	4,639.03	4,639.03		Complete.
ALBANY RD.—Van Cortlandt Pk. So. to Bailey Ave., etc. ....	1/25/11	5/10/13	157,976.00	159,148.51	+ 0.74	.....	159,148.51	57,781.51		Complete.*
PARKER ST.—Westchester Ave. to Lyon Ave. ....	12/ 4/12	5/23/13	2,650.50	2,351.79	-11.28	.....	2,351.79	2,351.79		Complete.
E. 193RD ST.—Bainbridge Ave. to Webster Ave....	1/13/13	6/ 5/13	1,492.50	1,476.32	- 1.07	.....	1,476.32	1,476.32		Complete.
SPUYTEN DUYVIL RD.—Johnson Ave. to W. 230th St. ....	2/13/13	6/ 9/13	6,988.50	7,412.48	+ 6.07	.....	7,412.48	7,412.48		Complete.*
FULLER ST.—Seddon St. to Zerega Ave.....	9/ 9/12	5/23/13	2,371.00	2,368.71	- 0.08	.....	2,368.71	2,368.71		Complete.
E. 223RD ST., E. 224TH ST., E. 225TH ST.—Bronxwood to Laconia Aves.....	4/18/12	6/10/13	20,707.25	20,777.02	+ 0.34	.....	20,777.02	7,867.62		Complete.
E. 236TH ST.—White Pl. Rd. to Barnes Ave. ....	7/10/12	6/24/13	14,453.50	14,007.30	- 3.09	.....	14,007.30	7,866.05		Complete.*
ST. LAWRENCE AVE.—West Farms Rd. to Westchester Ave. ....	7/26/11	5/10/13	11,795.35	9,424.62	....	2,179.71	7,244.91	705.51	Spec. Payment.	132 days at \$10 chgd. overtime.
E. 165TH ST.—Grant to Walton Aves.....	4/23/12	6/28/13	19,706.00	20,907.74	+ 0.07	.....	20,907.74	11,942.84		Complete.*
W. 235TH ST.—Spuyten Duyvil Pky. to Riverdale Ave.	8/27/12	7/14/13	18,893.75	18,793.97	- 0.53	.....	18,793.97	18,793.97		Complete.*
GLEBE AVE.—Zerega Ave. to Overing St.....	5/15/13	7/15/13	4,286.00	4,280.95	- 0.14	.....	4,280.95	4,280.95		Complete.
MACLAY AVE.—Zerega to Walker Aves.....	2/13/13	7/ 9/13	5,486.00	5,436.90	- 0.96	.....	5,436.90	5,436.90		Complete.*

PAYMENTS ON ACCEPTANCE, FINAL AND RETAINED AMOUNTS.—Continued.

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BOSTON RD.—White Pl. Rd. to north line of City..	1/24/11	7/ 9/13	220,502.50	224,491.32	+ 1.81	.....	224,491.32	81,586.32	Complete.*
TAYLOR AVE.—Gleason to Westchester Ave.....	5/ 1/13	7/19/13	2,396.15	2,390.80	- 0.25	.....	2,390.80	2,390.80	Complete.
GRAND AVE.—W. 181st to W. 184th St. ....	2/18/13	8/14/13	10,195.50	11,697.37	+14.56	.....	11,679.37	11,679.37	Complete.*
W. 233RD ST.—Broadway to Albany Rd. ....	4/19/12	8/13/13	14,733.00	†14,000.51	- 4.97	.....	14,000.51	14,000.51	Complete.*
LELAND AVE.—Walker to Westchester Aves.....	8/30/12	8/16/13	22,987.00	22,915.83	- 0.31	.....	22,915.83	18,165.18	Complete*
ST. LAWRENCE AVE.—Randolph to Westchester Aves. ....	7/14/13	8/18/13	1,402.50	1,356.21	- 3.28	.....	1,356.21	1,356.21	Complete.
DORSEY ST.—Zerega Ave. to Seddon St. ....	12/ 2/12	8/21/13	1,983.00	2,299.11	+15.93	.....	2,299.11	2,299.11	Complete.
RANDOLPH AVE.—St. Lawrence to Beach Aves...	6/ 4/13	8/ 5/13	1,164.00	1,201.79	+ 3.28	.....	1,201.79	1,201.79	Complete.
W. 172ND ST.—Jerome to Inwood Aves.....	6/ 6/13	8/13/13	2,904.00	2,554.02	-12.05	.....	2,554.02	2,554.02	Complete.
E. 198TH ST.—Jerome to Creston Aves.....	5/ 2/13	7/10/13	1,113.00	1,118.29	+ 0.45	.....	1,118.29	1,118.29	Complete.
ROSEDALE AVE.—Walker to Tremont Aves.....	12/ 2/12	9/27/13	13,788.00	14,352.51	+ 4.09	.....	14,352.51	14,352.51	Complete.*
BAYCHESTER AVE.—Boston Rd. to Pelham Bay Park .....	5/24/11	9/ 6/13	121,598.50	120,472.57	- 0.92	.....	120,472.57	49,340.37	Complete.*
PUGSLEY AVE.—McGraw to Tremont Aves.....	7/14/13	9/25/13	5,722.75	5,692.28	- 0.52	.....	5,692.28	5,692.28	Complete.*
ALBANY RD.—Bailey Ave., at 230th St. to Bailey Ave., at 233rd St. ....	9/ 3/11	9/18/13	22,019.00	†17,859.55	-18.89	.....	17,859.55	10,317.68	126½ days at \$10 chgd. Complete.*
CORLEAR AVE.—230th to 240th Sts.....	5/24/12	10/15/13	44,982.50	43,957.39	- 2.28	.....	43,957.39	38,714.17	Complete.*
GLEBE AVE.—Westchester to Zerega Ave.....	9/ 9/12	10/24/13	10,550.30	12,272.61	+16.32	.....	12,272.61	12,272.61	Complete.*
WHITTIER ST.—Seneca Ave. to Lafayette Ave....	8/11/13	10/29/13	3,706.00	3,616.25	- 2.43	.....	3,616.25	3,616.25	Complete.
McGRAW AVE.—Unionport Rd. to Beach Ave....	11/21/12	11/19/13	19,492.30	19,802.34	+ 1.59	.....	19,802.34	19,802.34	Complete.*
W. 234TH ST.—Kingsbridge Ave. to Albany Rd....	4/ 9/12	11/22/13	19,106.00	†18,311.80	- 4.16	.....	†18,311.80	18,311.80	Complete.*
NORTH ST.—Aqueduct Ave. to Jerome Ave.....	8/27/13	12/ 8/13	2,917.50	2,782.49	- 4.63	.....	2,782.49	2,782.49	Complete.
W. 179TH ST.—Aqueduct Ave. to Osborne Pl. ....	5/ 5/13	12/20/13	16,458.50	15,829.19	- 3.82	.....	15,829.19	15,829.19	Complete.*
CROMWELL AVE.—E. 150th St. to Jerome Ave...	6/ 4/06	3/15/13	31,238.50	†26,600.90	-14.84	.....	†26,600.90	5,808.45	Complete.
MORRIS AVE.—Fordham Rd. to E. 191st St., etc...	8/ 6/13	12/29/13	7,442.00	8,005.83	+ 7.56	.....	8,005.83	8,005.83	Complete.*
TRANSVERSE RDS. at E. 170TH ST. in connection with G. B. & C. ....	1/ 9/11	1/18/13	114,944.60	114,994.00	+ 0.04	5,749.70	109,244.30	20,360.75	1-yr. guar.
BEDFORD PK. BOULEVARD, in connection with G. B. & C. ....	4/ 9/12	12/ 9/13	95,988.80	104,523.38	+ 8.89	5,226.17	99,297.21	67,514.33	1-yr. guar.*

Reg., Grad. and Steps.  
 SUMMIT PL.—Heath to Bailey Aves..... 8/19/13 11/29/13 5,313.75 5,416.83 + 1.04 ..... 5,416.83 4,875.15 Complete.\*

Repav. Redressed Granite.  
 E. 156TH ST.—Cauldwell Ave. to Dawson St..... 6/23/13 9/25/13 19,425.55 19,442.91 + 0.08 949.94 18,492.97 18,492.97 1-yr. Guar.\*  
 BROOK AVE.—E. 156th St. to Third Ave..... 5/31/13 10/ 9/13 15,890.20 15,655.34 - 1.48 786.11 14,869.23 14,869.23 1-yr. Guar.\*  
 E. 150TH ST.—Third to Melrose Aves., etc..... 5/ 6/13 10/13/13 9,196.50 9,168.82 - 0.30 366.07 8,802.75 8,802.75 1-yr. Guar.\*  
 E. 179TH ST.—Park to Third Ave..... 9/18/13 11/28/13 5,873.25 5,963.16 + 1.53 317.63 5,645.53 5,645.53 1-yr. Guar.\*  
 WEBSTER AVE.—E. 178th to E. 187th Sts..... 6/ 4/13 12/29/13 55,762.40 56,305.54 + 0.97 3,038.06 53,267.48 53,267.48 1-yr. Guar.\*  
 TREMONT AVE.—Webster to Third Aves..... 5/31/13 10/16/13 (Declared abandoned).

Pav. Granite and Asphalt Blocks.  
 BAILEY AVE.—Albany Rd. to Ft. Independence St.. 7/16/13 10/ 9/13 9,613.75 9,714.85 + 1.05 1,457.23 8,257.62 8,257.62 5-yr. Guar.\*

Pav. or Repav. Granite Block.  
 TIFFANY ST.—Edgewater Rd. to Dock ..... 9/ 9/12 6/30/13 9,991.50 9,517.65 - 4.74 287.68 9,229.97 9,229.97 1-yr. Guar.\*  
 E. 180TH ST.—Third Ave. to Bronx St..... 5/24/12 6/13/13 91,367.00 91,896.00 + 0.58 7,492.77 84,403.23 17,258.82 1-yr. Guar.\*  
 BURNSIDE AVE.—Aqueduct Ave. to Sedgwick Ave. 9/24/12 9/11/13 28,159.40 29,774.21 + 5.73 2,375.29 27,398.92 27,398.92 1-yr. Guar.\*  
 RIVER AVE.—E. 149th St. to 450 feet south of E. 151st St. .... 2/20/13 8/13/13 8,984.00 9,031.78 + 0.53 832.81 8,198.97 8,198.97 1-yr. Guar.\*  
 GERMAN PL.—Westchester Ave. to Rae St..... 7/14/13 9/17/13 4,826.00 4,768.94 - 1.18 393.76 4,375.18 4,375.18 1-yr. Guar.\*  
 EXTERIOR ST.—University Heights Br. to Fordham Rd. .... 8/20/13 11/29/13 7,830.90 7,646.67 - 2.35 523.94 7,122.73 7,122.73 1-yr. Guar.\*  
 E. 170TH ST.—Bristow St. to Wilkins Pl..... 10/29/13 11/29/13 4,631.30 4,639.10 + 0.17 419.64 4,219.46 4,219.46 1-yr. Guar.\*  
 CEDAR AVE.—Sedgwick Ave. to W. 179th St..... 8/19/13 12/13/13 33,016.30 31,198.86 - 5.51 2,758.14 28,440.72 28,440.72 1-yr. Guar.\*  
 E. 133RD ST.—Alexander to Willis Aves..... 9/ 9/12 9/27/13 29,125.00 †28,857.16 - 0.92 2,236.85 26,620.31 26,620.31 1-yr. Guar.\*

Paving or Repaving Bituminous Concrete.  
 CITY IS. AVE.—City Is. Br. to Long Island So. 11/28/11 1/ 6/13 57,540.00 57,680.33 + 0.25 11,536.07 46,144.26 10,829.26 5-yr. Guar.  
 COMMONWEALTH AVE.—Walker Ave. to Merrill St. .... 9/24/12 1/15/13 6,746.80 †6,520.91 - 3.34 990.89 5,530.02 5,530.02 5-yr. Guar.\*  
 MANIDA ST.—Lafayette Ave. to Eastern Boulevard. 9/12/12 5/30/13 17,183.45 †17,214.13 + 0.18 2,072.06 15,142.07 12,834.41 5-yr. Guar.\*  
 MORRIS AVE.—E. 184th St. to Fordham Rd..... 12/26/12 5/ 8/13 5,254.20 5,434.44 + 3.43 815.17 4,619.27 4,619.27 5-yr. Guar.\*  
 LIND AVE.—23rd and 24th Ward Line to Aqueduct Ave. .... 2/24/13 5/ 6/13 7,911.65 7,821.19 - 1.15 1,173.18 6,648.01 6,648.01 5-yr. Guar.\*  
 AQUEDUCT AVE.—Fordham Rd. to Kingsbridge Rd. 10/29/12 5/14/13 26,725.00 19,184.31 -28.21 2,877.65 16,306.66 16,306.66 5-yr. Guar.\*  
 WALTON AVE.—E. 177th St. to Tremont Ave.... 4/18/13 6/ 3/13 3,066.20 3,042.01 - 0.78 456.30 2,585.71 2,585.71 5-yr. Guar.\*  
 W. 261ST ST.—Riverdale Ave. to Broadway..... 11/15/12 6 17/13 12,039.50 11,974.12 - 0.55 1,796.12 10,178.00 10,178.00 5-yr. Guar.\*  
 † Net.  
 E. 173RD ST.—So. Boulevard to Bryant Ave. .... 1/13/13 5 28/13 4,937.20 5,015.83 + 1.60 752.37 4,263.46 4,263.46 5-yr. Guar.\*  
 DEVOE TERRACE—Webb Ave. to W. 190th St.... 10/10/12 7/ 8/13 4,894.00 †4,837.60 - 1.16 739.14 4,098.46 4,098.46 18 days at \$5 chgd. 5-yr. Guar.

ST. LAWRENCE AVE.—Walker Ave. to Merrill St. 9/24/12 7/11/13 7,330.40 †7,131.88 - 2.71 1,081.03 6,050.85 6,050.85 15 days at \$5 chgd. 5-yr. Guar.\*  
 ODGEN AVE.—W. 169th St. to Aqueduct Ave.... 5/ 5/13 8/ 2/13 7,277.10 7,399.98 + 1.68 1,110.00 6,289.98 6,289.98 5-yr. Guar.\*  
 E. 202ND ST.—Webster Ave. to N. Y. & H. R. R. 2/28/13 8/16/13 2,383.75 2,323.39 - 2.52 348.51 1,974.88 1,974.88 5-yr. Guar.\*



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MORRIS AVE.—E. 166th St. to E. 170th St.....	7/ 2/13	9/11/13	13,227.75	13,281.72	+ 0.41	1,992.26	11,289.46	11,289.46	5-yr. Guar.*
FINDLAY AVE.—E. 165th to E. 166th Sts.....	7/15/13	10/22/13	2,505.00	2,496.76	- 0.36	374.51	2,122.25	2,122.25	5-yr. Guar.
HOE AVE.—E. 173rd St. to Boston Rd.....	7/15/13	10/25/13	6,123.00	6,199.15	+ 1.24	929.87	5,269.28	5,269.28	5-yr. Guar.*
NELSON AVE.—Featherbed Lane to Macombs Rd..	9/19/13	10/20/13	8,106.05	8,180.00	+ 0.91	1,227.00	6,953.00	6,953.00	5-yr. Guar.*
VYSE AVE.—E. 173rd to E. 177th St.....	7/15/13	11/ 1/13	12,665.00	12,420.69	- 1.93	1,863.10	10,557.59	10,557.59	5-yr. Guar.*
GARRISON AVE.—Tiffany St. to Hunts Pt. Ave...	8/ 5/13	11/11/13	7,148.00	7,222.31	+ 1.03	1,083.35	6,138.96	6,138.96	5-yr. Guar.*
VYSE AVE.—E. 172nd to E. 173rd Sts.....	11/ 7/12	12/ 1/13	4,038.65	4,007.44	- 0.77	604.12	3,403.32	3,403.32	5-yr. Guar.
BRANDT PL.—University Ave. to Nelson Ave., etc.	8/21/13	12/20/13	4,234.00	4,193.38	- 0.97	629.01	3,564.37	3,564.37	5-yr. Guar.*
KINGSBRIDGE AVE.—W. 230th to W. 234th Sts.	10/31/13	12/24/13	11,434.00	11,465.40	+ 0.27	1,719.81	9,745.59	9,745.59	5-yr. Guar.*
MORRIS AVE.—E. 166th to E. 170th Sts.....	10/31/13	12/24/13	5,541.50	5,612.85	+ 1.23	841.90	4,770.75	4,770.75	5-yr. Guar.
<b>Paving or Repaving Asphalt Blocks.</b>									
BARRETTO ST.—So. Boulevard to Whitlock Ave...	11/26/12	5/19/13	2,449.00	2,425.95	- 0.94	363.89	2,062.06	2,062.06	5-yr. Guar.
WALKER AVE.—Morris Pk. Ave. to Unionport Rd.	10/24/12	5/22/13	46,102.15	43,256.79	- 6.17	6,488.52	36,768.27	17,089.54	5-yr. Guar.*
HEATH AVE.—Boston Ave. to Ft. Independence St.	11/26/12	6/14/13	11,216.80	11,026.86	- 1.69	1,654.03	9,372.83	9,372.83	5-yr. Guar.*
AQUEDUCT AVE.—Burnside Ave. to 181st St.....	10/28/12	6/23/13	36,105.70	36,716.66	+ 1.69	5,507.50	31,209.16	31,209.16	5-yr. Guar.*
MORRIS AVE.—E. 156th to E. 161st Sts.....	5/ 2/13	7/19/13	3,873.20	3,400.56	-12.21	510.08	2,890.48	2,890.48	5-yr. Guar.
TIFFANY ST.—So. Boulevard to Lafayette Ave....	12/26/12	8/ 2/13	11,611.55	11,502.31	- 0.94	1,725.35	9,776.96	9,776.96	5-yr. Guar.*
E. 165TH ST.—Union to Stebbins Aves.....	8/27/13	10/18/13	5,901.00	5,802.83	- 1.69	870.42	4,932.41	4,932.41	5-yr. Guar.
LONGFELLOW AVE.—Lafayette Ave. to N. Y., N. H. & H. R. R.....	8/ 8/13	10/21/13	17,703.15	17,613.48	- 0.51	2,642.02	14,971.46	14,971.46	5-yr. Guar.
E. 165TH ST.—Grant to Morris Aves.....	11/ 5/13	12/ 2/13	2,436.10	2,414.84	- 0.90	362.23	2,052.61	2,052.61	5-yr. Guar.
<b>Repav. Asphalt Blocks and Redressed Granite Blocks.</b>									
MELROSE AVE.—E. 163rd St. to Brook Ave., etc.	7/27/12	6/11/13	12,730.40	13,816.95	+ 8.54	2,072.54	11,744.41	11,744.41	*1 & 5-yr. Guar.
<b>Repaving Wood Block and Granite Block.</b>									
SO. BOULEVARD—Barretto St. to Westchester Ave.	9/ 3/12	1/14/13	60,116.00	58,805.35	- 2.18	8,820.80	49,984.55	6,275.43	5-yr. Guar.
<b>Paving or Repaving Sheet Asphalt.</b>									
CLAY AVE.—E. 165th to E. 166th Sts.....	11/15/12	1/ 4/13	4,410.60	4,344.75	- 1.49	651.71	3,693.04	3,693.04	5-yr. Guar.
WHITE PL. RD.—Gun Hill Rd. to E. 227th St....	10/17/12	1/ 9/13	14,118.20	13,934.45	- 0.93	2,097.67	11,886.78	7,247.90	5-yr. Guar.
E. 179TH ST.—Park Ave. W. to Valentine Ave....	12/26/12	4/12/13	4,593.00	4,677.88	+ 1.85	701.68	3,976.20	3,976.20	5-yr. Guar.



**FINAL AND RETAINED PAYMENTS.**

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							Certified.	Certified During Year.	
<b>Paving or Repaving Asphalt Block.</b>									
HEATH AVE.—Bailey Ave. to Boston Ave.....	1/31/12	10/ 8/12	28,103.20	27,832.03	— 0.96	.....	27,832.03	5,566.41	Complete.
E. 133RD ST.—So. Boulevard to Cypress Ave.....	4/11/12	10/ 9/12	6,443.00	6,519.21	+ 1.18	.....	6,519.21	1,303.84	Complete.
BRYANT AVE.—E. 172nd St. to E. 174th St.....	9/20/12	11/14/12	7,518.20	7,463.55	— 0.73	.....	7,463.55	1,119.53	Complete.
BELMONT AVE.—175th to 177th Sts.....	8/21/12	10/26/12	9,721.00	9,640.85	— 0.82	.....	9,640.85	1,446.13	Complete.
HOE AVE.—E. 172nd to E. 173rd Sts.....	6/ 5/12	11/15/12	5,898.40	6,175.39	+ 4.69	.....	6,175.39	926.31	Complete.
OGDEN AVE.—Merriam Ave. t W. 169th St.....	8/26/12	11/16/12	5,407.75	5,384.12	— 0.44	.....	5,384.12	807.62	Complete.
PLIMPTON AVE.—Boscobel Ave. to W. 169th St..	6/ 5/12	8/ 3/12	7,274.50	7,299.58	+ 0.34	.....	7,299.58	1,094.94	Complete.
E. 178TH ST.—Crotona Ave. to So. Boulevard ....	6/ 5/12	7/23/12	9,395.40	9,482.29	+ 0.93	.....	9,482.29	1,422.34	Complete.
E. 173RD ST.—Third Ave. to Fulton Ave.....	6/ 5/12	7/23/12	1,807.42	1,779.52	— 1.49	.....	1,779.52	266.93	Complete.
KINGSBRIDGE RD.—Jerome Ave. to Creston Ave..	6/ 6/11	5/ 2/12	8,634.40	8,541.51	— 1.06	.....	8,541.51	1,708.30	Complete.
E. 152ND ST.—Park Ave. to Morris Ave. ....	12/19/11	5/23/12	3,642.10	3,618.92	— 0.63	.....	3,618.92	723.78	Complete.
<b>Paving or Repaving Asphalt.</b>									
BEAUMONT AVE.—Grote St. to E. 189th St.....	9/15/12	11/12/12	14,837.50	14,775.95	— 0.42	.....	14,775.95	2,216.39	Complete.
<b>Paving and Repaving Asphalt.</b>									
ADAMS PL.—182nd St. to Crescent Ave.....	8/14/12	11/18/12	4,357.50	4,320.61	— 0.85	.....	4,320.61	648.09	Complete.
ST. MARY'S ST.—So. Boulevard to Wales Ave., etc.	10/28/12	12/ 7/12	4,277.44	4,168.24	— 2.53	.....	4,168.24	625.24	Complete.
TINTON AVE.—E. 166th St. to E. 169th St.....	9/27/12	10/ 4/12	13,744.75	13,745.37	.....	.....	13,745.37	2,061.81	Complete.
OAK TREE PL.—Lafontaine Ave. to Hughes Ave..	8/14/12	10/30/12	3,902.95	3,935.53	+ 0.84	.....	3,935.53	590.33	Complete.
ARTHUR AVE.—Tremont Ave. to E. 183rd St....	5/24/12	11/ 4/12	26,831.80	25,142.93	— 6.29	.....	25,142.93	2,514.29	Complete.
ARTHUR AVE.—E. 183rd St. to Pelham Ave.....	11/28/10	7/22/12	20,108.50	20,450.98	+ 1.20	.....	20,450.98	4,090.20	Complete.
BERGEN AVE.—Westchester Ave. to Brook Ave..	6/ 4/12	8/22/12	8,396.20	8,979.36	+ 6.94	.....	8,979.36	897.94	Complete.
TIFFANY ST.—Beck St. to So. Boulevard .....	11/ 3/11	4/18/12	5,943.50	5,947.40	+ 0.07	.....	5,947.40	1,189.48	Complete.
FOX ST.—Avenue St. John to Lafayette Ave.....	4/15/12	6/19/12	4,729.49	4,648.36	— 1.71	.....	4,648.36	929.67	Complete.
AQUEDUCT AVE.—W. 181st St. to Fordham Rd..	6/ 4/12	8/19/12	33,446.25	33,359.41	— 0.29	.....	33,359.41	5,003.91	Complete.
LORING PL.—University Ave. to W. 183rd St....	11/ 3/11	4/ 8/12	3,674.55	3,702.95	+ 0.76	.....	3,702.95	740.59	Complete.
E. 178TH ST.—Bryant Ave. to Boston Rd.....	9/12/11	4/23/12	3,174.70	3,225.31	+ 1.57	.....	3,225.31	645.06	Complete.
<b>Paving or Repaving Granite Block.</b>									
CANAL PL.—E. 138th St. to E. 144th St.....	5/24/11	11/29/11	15,342.00	15,900.85	+ 3.64	.....	15,900.85	1,416.10	Complete.

E. 161ST ST.—Park Ave. E. to Park Ave. W.....	8/14/12	10/22/12	5,740.60	6,237.49	— 8.64	.....	6,237.49	428.15	Complete.
EXTERIOR ST.—E. 149th St. to E. 151st St.....	8/18/11	12/ 9/11	32,087.50	31,797.81	— 0.09	.....	31,797.81	3,035.76	Complete.
LEGGETT AVE.—So. Boulevard to N. Y., N. H. & H. R. R. ....	11/ 6/11	4/17/12	6,071.45	6,292.50	+ 3.64	.....	6,292.50	577.81	Complete.
E. 149TH ST.—Morris Ave. to Mott Ave.....	11/21/10	12/14/11	16,968.00	17,740.57	+ 4.55	.....	17,740.57	678.71	Complete.
BROWN PL.—E. 132nd to E. 133rd Sts.....	11/10/11	5/15/12	3,907.80	3,722.79	— 4.73	.....	3,722.79	225.95	Complete.
<b>Paving or Repaving Wood Block.</b>									
SO. BOULEVARD—Third Ave. to Alexander Ave..	5/12/11	7/29/11	21,757.20	21,580.35	— 0.81	.....	21,580.35	2,158.04	Complete.
E. 158TH ST.—Cauldwell Ave. to Eagle Ave.....	11/11/11	4/27/12	2,810.00	2,844.36	+ 1.21	.....	2,844.36	568.87	Complete.
WEBSTER AVE.—E. 187th to E. 189th Sts.....	11/15/11	5/25/12	19,507.80	19,514.20	+ 0.03	.....	19,514.20	1,951.42	Complete.
<b>Paving and Repaving Asphalt and Asphalt Blocks.</b>									
BELMONT AVE.—E. 177th St. to Pelham Ave....	5/24/12	9/17/12	50,953.10	50,021.81	— 1.83	.....	50,021.81	5,002.18	Complete.
E. 160TH ST.—Cauldwell Ave. to Forest Ave.....	9/22/11	12/ 9/11	4,438.75	4,403.18	— 0.81	.....	4,403.18	880.64	Complete.
HALL PL.—E. 165th St. to E. 167th St.....	3/15/12	6/ 1/12	4,885.25	4,960.28	+ 1.53	.....	4,960.28	992.06	Complete.
<b>Paving and Repaving Asphalt and Asphalt Block.</b>									
CARTER AVE.—E. 173rd to E. 176th Sts.....	9/15/11	3/31/12	14,859.00	†14,559.17	— 2.02	.....	14,559.17	2,911.83	Overtime chgd. Complete.
<b>Paving and Repaving Granite Block and Asphalt Block.</b>									
FREEMAN ST.—So. Boulevard to Westchester Ave.	5/15/12	7/19/12	21,241.50	20,950.98	— 1.37	.....	20,950.98	2,095.10	Complete.
FT. INDEPENDENCE ST.—Sedgwick Ave. to W. 238th St. ....	9/12/11	2/16/12	26,502.70	27,324.36	+ 3.10	.....	27,324.36	5,464.87	Complete.
Improvement of Junct. of THIRD AVE. and BOS- TON RD. ....	3/20/12	8/ 5/12	2,924.80	†2,626.15	—10.19	.....	2,626.15	131.36	Overtime chgd.
<b>Paving or Repaving Bituminous Concrete.</b>									
PERRY AVE.—Mosholu Pky. to Gun Hill Rd.....	6/15/12	6/26/12	15,432.00	15,528.25	+ 0.62	.....	15,528.25	3,105.65	Complete.
WEBB AVE.—W. 188th St. to Kingsbridge Rd....	4/15/12	7/22/12	11,486.25	11,210.50	— 2.61	.....	11,210.50	2,242.10	Complete.
BRONX PARK AVE.—Tremont Ave. to Walker Ave.	6/20/12	8/ 3/12	3,435.86	3,513.57	+ 2.27	.....	3,513.57	527.04	Complete.
E. 239TH ST.—Arthur Ave. to Verio Ave.....	6/26/12	7/18/12	3,074.00	3,082.27	+ 0.25	.....	3,082.27	616.45	Complete.
VALENTINE AVE.—E. 197th St. to E. 201st St..	4/11/12	8/12/12	9,620.30	†9,796.78	+ 1.83	.....	9,796.78	1,971.16	Overtime chgd. Complete.
BASSFORD AVE.—E. 182nd St. to Third Ave.....	9/15/11	12/ 7/11	5,443.50	†5,376.91	— 1.23	.....	5,376.91	1,083.38	Overtime chgd. Complete.
E. 188TH ST.—Third Ave. to Beaumont Ave.....	9/15/11	4/ 3/12	10,128.50	10,230.42	+ 0.99	.....	10,230.42	2,046.08	Complete.
<b>Paving or Repaving with Bituminous Concrete.</b>									
GRAND AVE.—Tremont Ave. to Burnside Ave...	11/22/11	6/ 8/12	4,119.00	4,062.58	— 1.36	.....	4,062.58	812.52	Complete.
PERRY AVE.—Bedford Pk. Boulevard to Mosholu Parkway .....	12/21/11	6/ 1/12	4,782.90	4,758.53	— 0.50	.....	4,758.53	951.71	Complete.
Total Final and Retained Amounts .....			\$558,790.26	\$558,176.03	— 0.11	.....	\$558,176.03	\$80,414.07	

† Net.

**RECAPITULATION.**

No.	Total Amount of	Estimated Cost.	Earned.	Retained.	Certified.	Certified During Year.
	Partial Payments made during year .....	\$1,396,056.77	\$731,770.50	\$119,938.74	\$611,831.76	\$482,755.15
11	Contracts in force (no work done) .....	156,128.07	.....	.....	.....	.....
125	Payments on Acceptance made during year .....	2,181,054.40	2,174,516.20	135,556.01	2,038,960.19	1,277,037.01
49	Final and Retained Amounts made during year .....	558,790.26	558,176.03	.....	558,176.03	80,414.07
	<b>GRAND TOTAL</b> .....	<b>\$4,292,029.50</b>	<b>\$3,464,462.73</b>	<b>\$255,494.75</b>	<b>\$3,208,967.98</b>	<b>\$1,840,206.23</b>

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Respectfully submitted,  
S. C. THOMPSON,  
Engineer of Highways.