

DEPARTMENT OF PUBLIC WORKS

BOROUGH OF MANASSAS

ANNUAL REPORT

1930

ANNUAL REPORT

OF THE

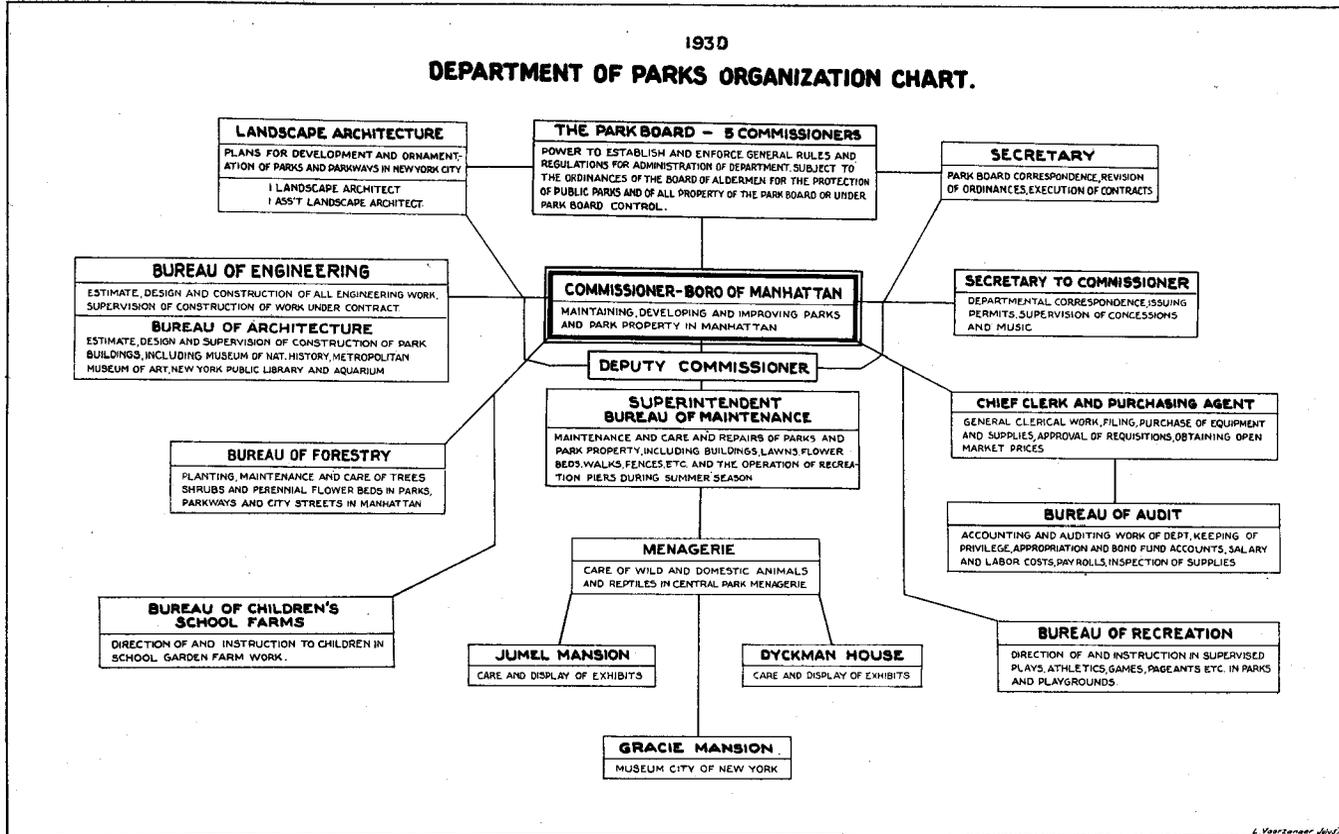
DEPARTMENT OF PARKS

BOROUGH OF MANHATTAN



For the Year

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HON. JAMES J. WALKER, *Mayor*

The City of New York.

Dear Sir :

In compliance with the provisions of the Greater New York Charter, I beg to submit herewith a report of work undertaken and accomplished by the Department of Parks, Borough of Manhattan, during the year 1930.

Respectfully submitted,

WALTER R. HERRICK,

Commissioner of Parks

Borough of Manhattan

THE PARK BOARD

The Park Board, consisting of five commissioners, has jurisdiction over the park system of New York City. This Board establishes and enforces general rules and regulations for the administration of the Department, and subject to the ordinances of the Board of Aldermen, establishes and enforces rules and regulations for the government and protection of public parks and of all property in charge of the said Board or under its control, which rules and regulations so far as practicable are uniform in all of the boroughs. Any person violating such ordinances is guilty of a misdemeanor. The Park Board advertises for and receives bids for work and supplies, lets contracts and has general power over all matters relating to the parks of the city, taken as a whole.

Each Commissioner of Parks, subject to the general rules and regulations established by the Board, has administrative jurisdiction over the parks within the borough to which he was appointed by the Mayor. The Commissioner of Parks for the Borough of Manhattan is President of the Park Board.

The offices of the Park Board are located in the Arsenal Building, Central Park, Borough of Manhattan.

The City of New York is divided for purposes of maintaining parks and parkways into the following borough divisions:

1. Borough of Manhattan
2. Borough of Brooklyn
3. Borough of The Bronx
4. Borough of Queens
5. Borough of Richmond

The assent of the Landscape Architect of the Park Board is requisite to all plans and works or changes thereof, respecting the confirmation, development or ornamentation of any of the parks, squares or public places of the city. It is the duty of the Landscape Architect, from time to time, to prepare and submit to the Park Board plans for works or changes respecting the parks and parkways of the city.

REPORT OF THE COMMISSIONER

Great progress was made in the work of the Park Department during the year 1930. I will first take up Central Park, the largest park in the Borough of Manhattan.

RECONSTRUCTION OF CONSERVATORY LAKE.

In summer this lake is used largely for sailing small boats, and in winter for skating and skating-meets. The reconstruction included the laying of a new walk around the lake, laying a concrete bottom and building a concrete wall and parapet. On the east side an ornamental balustrade was built. This work was completed in time for the youngsters to sail their boats and for skating in the early winter months. It is one of the most attractive improvements in Central Park.

REHABILITATION.

The progress made in the rehabilitation of Central Park under the recommendations of Mr. Hermann W. Merkel, who made a survey of the park, amply repays the city for the amount expended and has won favorable comments from individuals and civic organizations interested in park work.

NEW TENNIS HOUSE.

The tennis house was completed. It is practical in construction and decorative in appearance. It faces north and toward the tennis courts, to which it is adjacent. It contains locker accommodations, baths, rest rooms and comfort facilities, for men and women. It is probably the finest tennis house in any public park in this country. Its constant use shows appreciation of the additional facilities and the practical utility of the buildings.

WEST SIDE IMPROVEMENT—RIVERSIDE PARK.

The next important feature in park improvement was the work of covering the New York Central tracks extending through Riverside Park. This is in connection with the extension of Riverside Park by means of newly made land along the river front, and when completed will eliminate all sight of the railroad and afford along the top of the covering a highway through the park, connecting with the Express Highway, now partially constructed south of the park area.

THE SMALLER PARKS.

WASHINGTON SQUARE PARK.

The city obtained a sufficient appropriation for relaying of the walks in Washington Square Park, and when this work is completed the

Park Department will request additional funds for complete relandscaping, making this one of the most beautiful of the smaller parks in this city.

UNION SQUARE PARK.

The Board of Transportation having completed its work in connection with the mezzanine subway galleries in Union Square Park, that park was turned back to the Department. The work of relocating the statues was completed, including the moving of the equestrian statue of George Washington from the intersection of Fourth Avenue and Fourteenth Street to a place practically in the center of the park, a much more desirable site. Plans are in the course of preparation to let contracts for the construction of a combined bandstand and comfort station, and for the relandscaping of this park.

MADISON SQUARE PARK.

Plans were also prepared and contracts let for the relandscaping and rehabilitation of Madison Square Park. It is hoped that this work will be well under way during the year 1931.

INWOOD HILL PARK.

It has been the aim of the Park Department to retain Inwood Hill Park as far as practicable in its original state as a beautiful piece of natural woodland overlooking the Hudson River, and with this in view the work was begun of demolishing the old buildings which had outlived their usefulness and were rapidly becoming dilapidated. The plan suggested by Mr. Jules V. Burgevin, Landscape Architect of the Park Board, was carried out largely through the use of the three-day-a-week men employed under a special appropriation by the City to provide work for the unemployed.

THE OLD SOUTH RESERVOIR.

The plan for the utilization of the old south reservoir site, turned over to the Park Department by the Department of Water Supply, Gas and Electricity, has for a long time been a matter of discussion. Numerous propositions were submitted to the department. Eventually the New York Chapter of the American Society of Landscape Architects presented a plan, the result of competitive work of members of the Chapter. The Park Commissioner arranged for a conference between representatives of the Chapter, the President of the Park Association of the City of New York, and the Landscape Architect and Assistant Landscape Architect of the Park Department.

The plan met with universal approval as far as the main features were concerned and differences as to treatment of details were adjusted between the Chapter and the Landscape Architects of this Department. The plan was finally adopted by the Park Commissioner and met with almost harmonious approval by the press. The progress of the work, however, has been delayed for two reasons. First, in order to carry out the plan submitted by the New York Chapter of the American Society of Landscape Architects, a new survey had to be made of the area to establish new grade levels necessary to adapt the area to the plan. Second, the marked falling off in building operations due to prevailing industrial and financial depression, prevented us from proceeding with the filling as for many months it was practically impossible for the contractor, to whom a permit was issued for the work of filling, to obtain larger quantities of crude fill. This was regrettable but inevitable. I think, therefore, that we can justifiably feel that a very practical step forward has been taken.

BUREAU OF LANDSCAPE ARCHITECTURE

General supervision over the rehabilitation work in Central Park, which we are very happy to report is now nearing completion. The remaining area to be rehabilitated is in the section from 102nd Street to 110th Street, and we hope to complete this not later than the spring of 1932.

During the planting season of 1930 there were :

1,658	new trees planted
30,464	new shrubs planted
2,000	new vines and ground cover plants planted
1,434	trees transplanted
44,883	shrubs transplanted
278,474	sq. ft. of sod laid
20,000	sq. ft. of new lawns seeded
10,000	lin. ft. of rock edging set, bordering walls, shrub plantations, etc.

We completed the rock facing on Harlem Meer, the Loch and pools in the north section of the park, giving a very pleasing effect to the shore lines of the lakes.

PREPARATION OF PLANS FOR THE ENTIRE PARK SYSTEM WHICH COMPRISES FIVE BOROUGHS

MANHATTAN

Plan showing proposed grading of Riverside Park, between 72nd and 79th Streets.

Design of entrances to and exit from Express Highway at West 96th Street.

Sketch showing proposed pedestrian ramp leading to Ft. Washington Park at West 158th Street.

Drainage and water supply plan of Riverside Park, 72nd-79th Streets.

Proposed grading plan of Riverside Park, 93rd-95th Streets.

Plan for converting the North Meadow in Central Park into an Athletic Field.

Central Park Reservoir, contour map, showing proposed convex grading of lawns; the original plan and layout was prepared by the New York Chapter of the American Society of Landscape Architects and presented to the City. After studying this plan it was deemed necessary for this Bureau to revise it and make certain modifications which were agreed to by the New York Chapter.

It is indeed regrettable that this most important improvement has had to be delayed at least one year due to a request from the Park Association and the New York Chapter of Landscape Architects to stop all filling operations, which is the sole cause of the delay.

Due to the assistance and cooperation of the Bureau Heads of the Manhattan Park Department, it was possible for the rehabilitation forces to forge ahead with this great work in a most satisfactory manner, and I wish to express my sincere thanks and appreciation to them.

BRONX.

Plan for connecting the Grand Concourse and Boulevard with the Sawmill River Parkway, Van Cortlandt Park, Mosholu and Spuyten Duyvil Parkways.

Plan showing extension of Eastern Boulevard through Pelham Bay Park, connecting with Westchester County Boulevard and Park System.

Plan showing proposed layout of the Soldiers and Sailors Memorial in Pelham Bay Park.

BROOKLYN.

Plan for Lincoln Terrace Park Playground.

Amended plan of Canarsie Park.

Plan showing location and layout of W. E. Kelly Memorial.

QUEENS.

Plan showing proposed treatment of Crocheron Park.

Plan showing proposed treatment of Bowne Park.

Plan showing proposed treatment of Jacob Riis Park.

Plan for improvement of seven triangular plots at intersecting streets.

Study and direction of plans prepared by the Assistant Landscape Architect of Queens Park Department for the proposed improvement of Forest Park and other parks in the Borough of Queens.

Attending conferences with the Park Commissioners as to the best possible means for the selection of new park sites, their development, etc., general maintenance and upkeep of existing parks in the various Boroughs.

Working in conjunction with Messrs. Olmsted Brothers for the proposed Fort Tryon Park improvement, a gift to the City by Mr. John D. Rockefeller, located in northern part of Manhattan Island.

Attending conferences with: The City Planning Commissioner; The West Side Improvement Committee; Architects for the West Side Improvement; The Port of New York Authority in connection with the construction of the George Washington Bridge, its approaches and exits.

BUREAU OF FORESTRY

Those interested in landscape art and in the beauty of trees, will realize that in order to secure and maintain this beauty, proper planting and care after planting is absolutely essential for the trees in our parks.

Our report will show in detail exactly what was accomplished and also explain the reason for certain activities, namely, tree surgery, entomology and other horticultural and arboricultural work.

METHODS OF OPERATION.

Chief Forester—Head of the Bureau—of both the technical and field activities.
 1 Arboriculturist—In charge of arboriculture, entomology, and tree-surgery.
 1 Head Gardener—In charge of the nursery, planting, pruning of shrubs, and the disciplining of the Bureau.

REGULAR WORKING FIELD FORCE.

5 Gardeners in charge	41 Climbers and Pruners
43 Gardeners	39 Laborers

FINANCIAL STATEMENT OF ORGANIZATION FOR 1930.

Chief Forester	\$3,720.00
Arboriculturist	3,240.00
Head Gardener-in-charge.....	2,340.00
Field Force:	
5 Gardeners in Charge @ \$2,160 per annum.....	10,800.00
Gardeners @ \$6.00 per day, 11,554 days, 7 hrs.....	69,327.75
Climbers and Pruners @ \$6.00 per day—11,065 days.....	66,390.00
Laborers @ \$5.50 per day—10,652 days.....	58,586.00
Total	<u>\$214,403.75</u>

TOTAL PARK ACTIVITIES FOR THE YEAR 1930.

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Cost</i>
Trees pruned	10,581	3,903	\$22,793.50
Trees planted	1,153	667	3,892.75
Trees transplanted	390	413	2,412.75
Trees sprayed for insect pests.....	61,053	825	4,819.50
Trees cleaned of egg masses.....	2,459	168½	983.50
Trees removed, dead and damaged.....	1,916	1,993	11,639.97
Trees cavities repaired.....	776	650	3,797.00
Trees cultivated and weeded.....	16,419	929	5,426.00
Trees mulched with manure.....	10,767	535	3,122.75
Trees fertilized by inoculation.....	2,074	202½	1,185.25
Trees staked for protection.....	1,548	92½	540.25
Trees binders repaired	2,395	133½	780.75
Trees removed for transplanting.....	14	12	68.50
Trees removed from 64th Street Nursery (dead) ..	11	3	18.00
Trees surgery cabling weak limbs.....	41	68½	400.00
Trees large spruce planted.....	3	38	221.50
Trees repaired, damaged by autos.....	98	46	268.50
Trees guards erected	42	9½	53.50
Trees guards repaired.....	46	8	46.50
Trees guards removed	16	3	17.00
Trees burlapped	18	2	10.50
Trees squirrel houses erected.....	7	1½	9.00
Shrubs pruned	35,530	1,840	10,742.48
Shrubs planted	10,031	667	3,892.62
Shrubs transplanted	2,283	505½	2,952.50
Shrubs sprayed for insect pests.....	64,556	218	1,272.75
Shrubs cleaned of insect pests.....	43,860	517	3,019.25
Shrubs removed (dead).....	1,366	126	735.75
Shrubs cultivated and weeded.....	81,995	1,535½	8,967.00
Shrubs mulched with manure.....	47,718	834	4,871.50
Shrubs fertilized	299	14½	85.50
Shrubs removed for transplanting.....	2,128	134	782.50
Tulip bulbs planted.....	54,273	139	813.50
Vines pruned and cleaned.....	1,043	22½	131.00
Ground cover planted and transplanted.....	5,775	44½	261.00
Ground cover removed for transplanting.....	2,275	6	34.50
Ivy removed for transplanting.....	3,350	9	53.00
Vines removed for transplanting.....	5,365	15½	89.50
Vines planted and transplanted.....	6,425	89½	522.00
Ivy planted and transplanted.....	9,075	55	321.00
Evergreens planted at Arsenal.....	54	4½	27.00
Mulched vines	510	6½	39.00

HERBACIOUS BEDS.

Planted flower beds.....	230	1,341.50
Cultivated flower beds.....	444½	2,598.00
Mulched flower beds.....	102	597.25
Cleaned flower beds.....	510	2,979.50
Sprayed flower beds.....	3½	21.00

MISCELLANEOUS WORK.

Fertilized lawns	18	105.50
Removal of snow from walks.....	905	5,286.44

MISCELLANEOUS WORK.

Watering trees, shrubs, lawns and beds.....	1,107	6,463.00
Restoration and seeding of lawns.....	847½	4,949.55
Mixing compost soil.....	77	450.50
Mixing fertilizers	65	378.50
Mixing spraying materials.....	144½	844.50
Storing fertilizers	4½	27.00
Loading soil for planting.....	4	22.00
Protection for park property.....	648	3,787.00
Clerical work in checking up nursery stock and keeping time..	345½	2,019.00
Sprayed lawns	2	11.00
Propagation of plants in Greenhouses.....	72	421.50
Cleaning spraying machines.....	2	12.00
Erected and repaired fences.....	9½	56.00
Sharpening tools at Nursery.....	10	57.50
Covering ivy with Hemlock branches at the Plaza.....	15	88.00
Supervision of topsoil delivery by Contractor.....	83	486.00
Mowing weeds around plantations.....	86	501.00
Lettering inscription on tulip tree (Inwood Park).....	2	12.00
Marking dead trees for removal.....	8	48.00
Total cost of labor.....		\$135,683.60
Total days worked.....		23,232½

TOTAL STREET ACTIVITIES FOR THE YEAR 1930, INCLUDING PARK AVENUE AND BROADWAY PLOTS.

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Cost</i>
Trees pruned	3,603	900	\$5,257.00
Trees removed (dead)	708	620	3,617.25
Trees sprayed for insect pests.....	17,293	225½	1,317.75
Trees cleaned of egg masses.....	296	21	122.50
Trees planted	585	784½	4,583.00
Trees mulched with manure.....	215	12	67.50
Trees cultivated and weeded.....	483	272	1,589.25
Trees fertilized with inoculation.....	1,253	57	333.25
Trees resoiled around roots.....	9	4	24.00
Trees repaired damaged by autos.....	82	30	174.00
Trees burlapped	108	7	41.00
Trees cavities treated	41	23½	137.50
Trees staked for protection.....	670	42	246.00
Trees binders repaired	1,784	100	586.13
Trees guards erected.....	18	3½	21.00
Trees guards repaired.....	83	5	29.50
Trees guards removed.....	27	4½	25.50
Trees removed for transplanting.....	78	50½	294.00
Bird houses erected in trees.....	120	6	35.00
Trees transplanted.....	60	68	396.00
Shrubs planted	1,017	48	282.50
Shrubs pruned	1,550	46½	273.50
Shrubs removed (dead).....	650	19	111.00
Shrubs sprayed for insect pests.....	2,032	5½	32.50
Shrubs cleaned of egg masses.....	2,070	31½	184.00
Shrubs mulched with manure.....	1,070	12	71.00
Shrubs cultivated and weeded.....	6,238	97½	571.00
Shrubs transplanted	433	31	179.00
Vines planted	70	4	24.00
Vines pruned	383	9½	54.00

HERBACEOUS BEDS.

Planted flower beds.....	96½	564.00
Cultivated flower beds.....	47½	276.00
Cleaned flower beds.....	72	421.50

MISCELLANEOUS WORK.

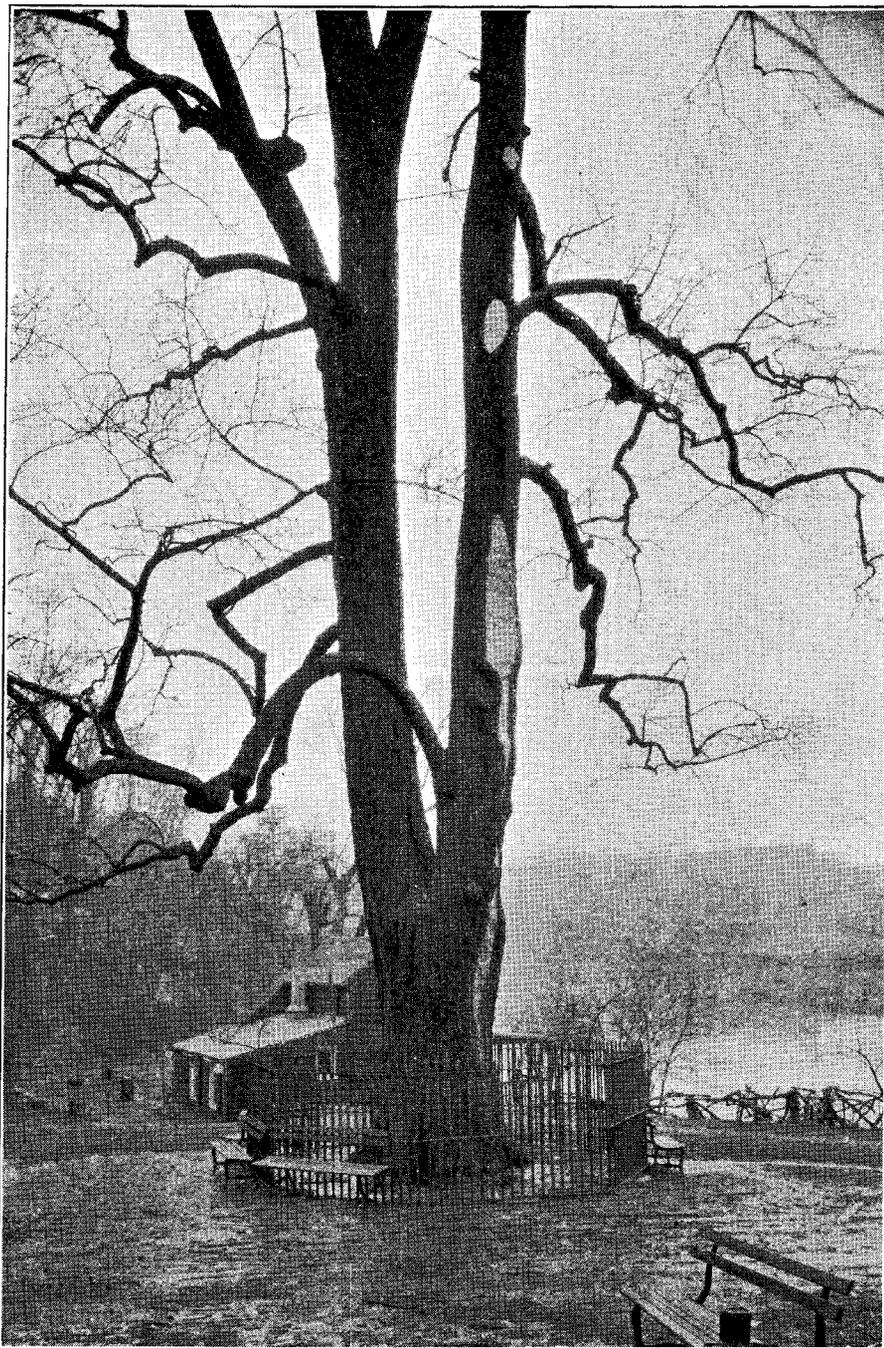
Seeding and restoration of lawns.....	247½	1,442.50
Mowing and cleaning plots on Park Avenue.....	712½	4,161.25
Mowing and cleaning plots on Broadway.....	778½	4,546.75
Watering trees, shrubs, lawns and beds.....	273½	1,599.00
Removal of snow from crossings.....	212½	1,240.50
Census and inspection of trees.....	31	180.00
Total cost of labor.....	\$35,111.63	
Total days worked.....	6,012	

TOTAL AMOUNT OF FERTILIZERS.

28,500 lbs. of steamed Bone Meal	
3,005 lbs. of Hydrate of lime	
41,200 lbs. of pulverized sheep manure	
95,300 lbs. of Cattle manure, well rotted	
2,660 lbs. of Floranid or Urea, highly concentrated fertilizer, 46% available Nitrogen.	
Topsoil used for planting trees and shrubs.....	5,000 cubic yards
Grass sods for borders of lawns.....	12,000 sq. feet
Grass seed for seeding of lawns.....	3,000 lbs.
<i>Total amount of Insecticides.</i>	
15,000 lbs. Arsenate of Lead	
155 lbs. Calcium Arsenate	
3,150 lbs. Bordeaux Mixture	
6,750 lbs. Fish Oil Soap (test pure)	
169 gallons of Nicotine, 40 per cent pure	
66 gallons of Dendrol	
12,000 gallons of Sulco V. B.	
<i>Tree surgery supplies and materials used in the repair of cavities</i>	
57 gallons of Creosote	
71 gallons of Coal Tar	
22 gallons of Special tree paint	
2½ gallons of White Shellac	
9,600 lbs. of Tankage	
750 feet of steel cable	
150 bolts and tie rods.	

WATERING

One of the most important activities performed by the Forestry Bureau was the watering of the trees, shrubs and perennial flower beds throughout the park system of Manhattan. This year the country experienced one of the worst droughts it has had in many years. Trees, shrubs and lawns suffered during this dry spell. Every effort, however, was made to water as many trees and other plantations as possible. We put to use every available apparatus and equipment for this work. Water tanks on trucks and spraying apparatus were taken from the regular activities and employed on the Streets



TULIP TREE (*LIRIODENDRON TULIPIFERA*) INWOOD HILL PARK
TREE SURGERY WORK COMPLETED—AUGUST 1930
CIRCUMFERENCE 23'-7" —AGE 245 YEARS

and Parkways for watering the trees. Every available foot of hose and every lawn sprinkler was put in service. Artificial watering of trees is necessary in this City, but this year it was more important on account of the drought. A complete water system should be installed in all of our parks before any further planting of trees is done. In cities like New York the water from rainfall runs off quickly, and very little finds its way into the soil and sub-soil around the roots of the trees, where it is most needed. Watering, especially after transplanting, when the trees re-establish themselves, and during the first two seasons growth, is very important. Evaporation from the branches and the developing leaves must be supplied artificially until new roots form. In some of the parks we found it impossible to water the trees sufficiently on account of the inadequate water system and the difficulty of getting into the parks with water wagons. This was especially the case in Riverside, Fort Washington and Inwood Hill Parks, there being no hydrants on the park side of Riverside Drive, therefore the watering of trees had to be done with the use of water barrels and tanks on horse-drawn trucks. The trees in these parks suffered from the drought more than in any of the other parks. In Central Park, however, we were more fortunate, having the recently installed irrigating system. Nevertheless we lost many trees in Central Park in the sections where the irrigating system has not been completed. In these places, the ground being shallow, we were not able to get sufficient water to the roots of the trees to supply them with enough moisture to carry them through the drought. The large trees suffered the most in the north section of the park.

TREE SURGERY.

The tree surgery work of the Forestry Bureau is one of great importance, scientific methods being used in the preservation of trees that have been wounded or damaged.

If trees were planted and maintained under proper conditions and were not subject to injuries or diseases they would attain a great age. But such conditions are not possible in a community of trees any more than in a community of human beings. Natural enemies, such as wind-storms, insect pests, and fungus diseases, failure to protect trees by tree guards (to prevent horse bites or damage by vandals) and many other causes prevail. Trees are subject to abrasions of the stem, and in many cases large cavities develop in the trunks or branches. This Bureau has cleaned out and treated with an antiseptic tree dressing over 2000 abrasions on trees, and cleaned out and sterilized 776 cavities in large trees, put in tie-rods and reinforcements where necessary and refilled same with cement. One of the outstanding tree surgery jobs done by the Bureau was the removal of an old cement filling in an extensive cavity in the large Tulip tree at the north end of Inwood Hill

Park. This tree is known as the Hendrik Hudson Memorial tree. A large cavity in this tree was filled twenty-eight years ago. As the work was not properly done, the cement cracked causing decay of the sap-wood. It was necessary to remove the old cement and refill the cavities, using new and scientific methods. A ton of cement, sand and gravel was used for this work, 500 ft. of rods being used to reinforce and cable the large limbs. (Photo of this tree, showing the cavity) on next page.

It has been the custom for the past ten years to grow a large number of perennial plants in cold frames in 79th Street Yard in Central Park. Following is a list of the plants grown and where they were planted, also a list of a late propagated stock which will be set out next spring.

HERBACEOUS PLANTS FROM 79TH STREET GREENHOUSE,
PLANTED IN CENTRAL PARK DURING THE YEAR 1930.

<i>Species</i>	<i>No. Planted</i>
Chrysanthemum	600
Euonymous	87
Hedera Helix.....	3,730
Hibiscus Althea.....	20
Hyacinth	4,530
Ligustrum	41
Lonicera	3,100
Myrtle	185
Narcissus	3,000
Pachysandra	200
Polygonum	75
Phlox	500
Plumbago	800
Sedum Acra	1,300
Sedum Mexicana	2,450
Sedum Sieboldi	780
Sedum Spectabilis	575
Tulips	8,943
Veitchii	175
Total	31,091

HERBACEOUS PLANTS FROM 79TH ST. GREENHOUSE,
PLANTED IN SMALL PARKS AND PARKWAYS.

<i>Species</i>	<i>No. Planted</i>
Battery Park—Ligustrum	12
Carl Schurz Park—Polygonum	75
City Hall Park—Hedera Helix	1,130
Pachysandra	150
Harlem Lane Park—Ligustrum	35
Manhattan Sq. Park—Euonymous	26



TULIP TREE (*LIRIODENDRON TULIPIFERA*) INWOOD HILL PARK
BASE CAVITY REPAIRED—SEPTEMBER 1930

<i>Species</i>	<i>No. Planted</i>
Montefiore Park—Chrysanthemum	60
Riverside Park—Euonymous	96
Hedera Helix	250
Polygonum	70
Park Avenue Plots—Ligustrum	25
Polygonum	75
<i>Total</i>	<i>2,004</i>

STOCK IN HAND IN 79TH STREET GREENHOUSES
DECEMBER 31ST, 1930

<i>Variety</i>	<i>Number</i>
Ligustrum privet (3 feet high)	450
Ligustrum privet (cuttings)	1,000
Forsythia	60
Dogwood	25
Barberry	10
Euonymous	75
Lathyrus latifolia	100
Cerestrum	75
Sedum Sieboldi (cuttings)	2,000
Sedum Acra	500
Polygonum vines	2,000
Euonymous (6 feet high)	300
Ivy plants (large)	3,100
Ivy (cuttings)	9,300
Crataegus (Young)	300
Rose of Sharon (Young)	300
Iris	200
Ilex	100
Azalea (cuttings)	200
<i>Total</i>	<i>20,095</i>
Oriental Planes (Young)	30
English Mulberry (for Shakespeare Society)	1

CENTRAL PARK:

New method of inoculating trees with Fertilizers.

FERTILIZATION:

It is generally found in the parks in the city that it is not deficiency of the nutritive elements in the soil that causes the decline of the trees, but rather the physical condition of the soil, which makes it impossible for the trees to perform their normal function. One of the ways we are improving this condition is by the use of an inoculating method of fertilization, by boring a number of holes 18 to 24 inches deep around the base of the tree and radiating to points directly under the ends of the branches where most of the feeding roots are located. Fertilizer is then placed in these holes. By

this process 1989 large trees were fertilized in Central Park alone. The results of this method are beginning to show in the trees that were fed in this manner three years ago in Central Park in the first and second sections. In Central Park 8735 trees and 41,211 shrubs were mulched with a decomposed manure.

The Forestry Bureau also assisted in the work of rehabilitation of Central Park in planting, grading, etc. Over 18,000 ground-cover plants were planted in this particular activity. In the fall of this year there were planted in round and oval shaped beds in large plantations, 1500 to 3000 tulip bulbs. These bulbs were donated to the city by John Kuer & Sons, bulb importers.

The Plaza at Fifth Avenue between 58th and 60th Streets received continual care from early spring, when 12,500 tulip bulbs were in bloom in the flower beds until fall. After the bulbs bloomed in the spring these flower beds were replanted with 12,000 bedding plants, which require a great deal of care. It was necessary to assign a gardener to this area to attend to the watering, weeding and cultivating of these flower beds and to keep the grass cut. In the fall these flower beds were again planted with 12,500 choice Darwin tulip bulbs and the beds covered with a mulch of manure to protect the bulbs during the winter.

SPRAYING:

The trees were better cared for to prevent the insect pests this year than in any previous year; 41,347 trees and 47,994 large shrubs and thousands of small shrubs and plants were sprayed in Central Park. This report will show an itemized list of the number, in each instance.

VANDALISM:

Destruction by vandalism is one of the greatest drawbacks to the successful rehabilitation of our parks. It was necessary for this bureau to replant 6,195 shrubs and 5,775 ground-cover plants in the lower end of the park this year, which had been destroyed by tramping and malicious breaking. Many thousand ground-cover plants, broken by children coasting on the slopes with sleds, will have to be replaced next spring.

TOTAL CENTRAL PARK ACTIVITIES FOR THE YEAR 1930.

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Cost</i>
Trees planted	531	402½	\$2,347.25
Trees pruned	7,942	2,992	17,472.25
Trees transplanted	270	279½	1,633.25
Trees removed (dead) and damaged.....	1,369	1,499	8,753.47
Trees sprayed for insect pests.....	41,347	634	3,664.25
Trees cleaned of egg masses.....	2,234	159	927.50
Trees cavities repaired.....	697	443½	2,591.00
Trees cultivated and weeded.....	10,728	589	3,442.00
Trees mulched with manure.....	8,735	419½	2,447.25
Trees fertilized by inoculation.....	1,989	196½	1,151.25
Trees (dead) removed from 64th Street Nursery...	11	3	18.00
Trees staked for protection.....	637	38	221.75
Trees binders repaired.....	1,112	63½	375.25
Trees removed for transplanting.....	14	12	68.50
Trees surgery cabling weak limbs.....	31	50	294.00
Trees repaired damaged by autos.....	56	29	171.50
Trees guards erected.....	5	1½	8.25
Trees guards repaired.....	18	2½	15.00
Trees guards removed.....	2	0½	2.75
Shrubs planted	6,195	422½	2,466.43
Shrubs pruned	17,472	759	4,429.61
Shrubs transplanted	1,632	258	1,506.25
Shrubs sprayed for insect pests.....	47,994	176½	1,031.25
Shrubs cleaned of insect pests.....	39,758	452	2,639.25
Shrubs removed (dead).....	985	89	519.25
Shrubs cultivated and weeded.....	63,077	1,115	6,510.00
Shrubs mulched with manure.....	41,211	677½	3,956.25
Shrubs fertilized with inoculation.....	209	10½	62.50
Tulips planted.....	31,223	82½	482.00
Vines pruned and cleaned.....	1,043	22½	131.00
Evergreens planted at Arsenal.....	54	4½	27.00
Erected squirrel houses.....	7	1½	9.00
Vines planted.....	5,659	70½	411.50
Ivy planted.....	5,625	44½	258.00
Ivy transplanted.....	2,200	4½	27.00
Vines transplanted.....	647	13	75.00
Ground cover planted and transplanted.....	5,775	44½	251.00
Shrubs removed for transplanting.....	72	7	41.00
Vines mulched with manure.....	510	6½	39.00

HERBACEOUS BEDS.

Planted flower beds.....	141	822.00
Cultivated and weeded flower beds.....	374½	2,191.75
Mulched with manure.....	90	528.25
Cleaned flower beds.....	452½	2,644.25
Sprayed flower beds for insect pests.....	3½	21.00

MISCELLANEOUS WORK.

Sprayed lawns.....	2	11.00
Fertilized lawns.....	12	70.00
Removal of snow from walks.....	114	666.21
Watered trees, shrubs, lawns and beds.....	799½	4,668.75
Restoration and seeding of lawns.....	575	3,358.05

MISCELLANEOUS WORK.

Mixing compost soil	77	450.50
Mixing fertilizers	65	378.50
Mixing spraying materials.....	144½	844.50
Storing fertilizers.....	4½	27.00
Protection of park property.....	648	3,787.00
Clerical work in 66th Street Nursery checking up nursery stock, and keeping time.....	345½	2,019.00
Propagation of plants in Greenhouses.....	72	421.50
Cleaned spraying machines.....	2	12.00
Erected and repaired fences.....	6	35.50
Sharpening tools at Nursery.....	10	57.50
Covering ivy with balsam at Plaza.....	15	88.00
Mowing weeds around plantations.....	16	94.50
	Days	Cost
Total cost of labor	\$93,683.56	
Total days worked.....	16,045½	

- 23 trees were damaged or destroyed by builders, piling material against trees, and erecting scaffolds.
- 12 trees were destroyed by vandalism in the parks.
- 27 trees were blown down by storms and destroyed.
- 70 trees were destroyed by automobiles.
- 63 trees were damaged by automobiles.
- 18 shrubs were damaged by automobiles.
- 126 trees were planted by citizens on the streets.
- 99 memorial trees were planted by schools and societies.
- 521 shrubs were planted in Riverside Park by The Women's League for the Protection of Riverside Park, Mrs. John Clapperton Kerr, President.
- 399 trees were planted by the Borough President on the City Streets.

TOTAL ACTIVITIES IN SMALL PARKS DURING THE YEAR 1930.

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
ABINGDON SQUARE PARK.			
Prune trees	12	3	18.00
Prune shrubs	210	4½	26.50
Removed trees	7	5½	33.00
Sprayed trees.....	36	½	1.50
Planted trees.....	3	3½	20.50
Planted tulips.....	200	2	10.50
Transplant trees.....	1	½	3.00
Cultivated trees	90	5	29.50
Cultivated shrubs	210	1¼	7.50
Cultivated beds .....	..	1½	9.00
Staked trees.....	27	1½	8.00
Cleaned beds.....	..	3	18.00
Cabled trees.....	4	4½	26.00
Treated cavities.....	2	2¼	13.00
Mulched beds.....	..	½	3.00
Binders on trees.....	32	1½	9.00
Watering trees and shrubs.....	..	2½	14.00
Total cost of labor.....		\$250.00	
Total days		43	

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
BATTERY PARK.			
Pruned trees	78	26½	155.00
Pruned shrubs	486	57	333.00
Removed trees	8	16	94.00
Removed shrubs	25	2	12.00
Sprayed trees	988	12¼	71.50
Sprayed shrubs	500	1	6.00
Planted trees	29	12	71.00
Planted shrubs	100	9½	54.00
Planted tulips	5,600	10	59.00
Planted beds .....	..	15½	91.00
Transplanted shrubs	6	1½	9.00
Cultivated trees	769	43½	254.00
Cultivated shrubs	1,339	29	171.50
Cultivated beds .....	..	13	76.00
Cleaned beds .....	..	8¼	47.00
Mulched beds .....	..	2½	15.00
Binders on trees	206	10½	62.50
Staked trees	98	6¼	37.00
Removal of snow .....	..	141½	826.50
Treated cavities	1	¼	1.00
Watering .....	..	20	116.00
Erected fences .....	..	1½	8.50
Total cost of labor			\$2,570.50
Total days			439¾

BENNETT PARK.

Prune trees	5	¾	4.50
Removed trees	4	¾	4.50
Sprayed trees	228	2¾	16.00
Treated cavities	3	¼	2.00
Total cost			\$27.00
Total days			4½

BOWLING GREEN PARK.

Pruned trees	4	2	11.50
Pruned shrubs	72	6	35.50
Removed trees	5	2	12.00
Planted trees	6	2	12.00
Planted shrubs	15	1½	9.00
Cultivated trees	68	5¼	30.50
Cultivated shrubs	227	3¾	22.00
Staked trees	2	¼	1.00
Total cost			\$133.50
Total days			22¾

BEACH STREET PARK.

Cultivated trees	8	½	3.00
Total cost			\$3.00
Total days			½

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
BRYANT PARK.			
Pruned trees	124	29	171.00
Pruned shrubs	792	31	182.50
Removed trees	1	1	6.00
Removed shrubs	3	¼	1.50
Sprayed trees	579	10¼	59.50
Sprayed shrubs	50	¼	2.00
Planted beds .....	..	6½	38.50
Planted tulips	(2,000)	5	29.50
Cultivated trees	186	9½	55.50
Cultivated shrubs	460	9	53.50
Cultivated beds .....	..	2	12.00
Cleaned beds .....	..	1	6.00
Mulched trees	156	6	35.50
Mulched shrubs	236	4½	25.50
Binders on trees	7	1¼	10.00
Staked trees	16	1	5.00
Watering trees .....	..	6	35.50
Total cost		\$729.00	
Total days		124	
CARMANSVILLE PLAYGROUND.			
Pruned trees	4	2	12.00
Sprayed trees	41	¾	4.50
Planted trees	2	1½	9.00
Cultivated trees	13	¾	4.50
Total cost		\$30.00	
Total days		5	
CARL SCHURZ PARK.			
Pruned trees	446	162¾	961.00
Pruned shrubs	1,941	137	799.75
Removed trees	10	15	87.00
Removed iris (transplant)	(2,000)	5	29.00
Sprayed trees	489	3¼	19.50
Sprayed shrubs	1,080	1½	9.00
Planted beds .....	..	6	36.00
Planted vines	75	1½	8.50
Planted tulips	1,875	8	46.00
Planted shrubs	315	20¾	121.50
Transplant trees	6	6½	39.00
Transplant shrubs	31	32½	190.25
Cultivated trees	242	17¼	79.50
Cultivated shrubs	632	4½	25.50
Cultivated beds .....	..	1¼	7.50
Mulched trees	165	13½	78.25
Mulched shrubs	1,165	36½	212.75
Mulched beds .....	..	1½	9.00
Cleaned trees	150	1½	9.00
Cleaned shrubs	610	10¾	62.50
Binders on trees	33	1¾	10.50
Fertilized lawns .....	..	6	35.50
Restoration .....	..	54½	318.00
Watering .....	..	12	70.50
Repaired fences .....	..	2	12.00
Treated cavities	7	¾	4.00
Total cost		\$3,346.50	
Total days		563½	

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
CHELSEA PARK.			
Removed trees	2	1	6.00
Cultivated trees	28	1½	8.50
Cultivated shrubs	8	¼	1.50
Mulched trees	10	½	3.00
Mulched shrubs	47	½	3.00
Staked trees.....	3	¼	1.50
Removal of snow.....	...	12¼	71.25
Binders on trees.....	40	2¼	13.50
Total cost			\$108.25
Total days			18½
COURT HOUSE SQUARE.			
Pruned trees	62	11¾	68.50
Pruned shrubs	60	2	12.00
Removed trees	18	6¼	37.00
Planted trees.....	1	½	3.00
Planted shrubs.....	50	2½	15.00
Sprayed trees	103	1	5.00
Sprayed shrubs	100	½	2.50
Cultivated trees	65	6½	33.50
Cultivated shrubs	140	3¼	19.50
Cultivated beds .....	...	2½	14.50
Binders on trees.....	111	6½	37.50
Watering .....	...	3	17.00
Total cost			\$258.00
Total days			46¼
COLONIAL PARK.			
Pruned trees.....	75	21½	126.00
Removed trees.....	14	23	135.00
Sprayed trees	938	6¼	24.50
Sprayed shrubs	1,000	1¼	7.50
Cultivated trees	205	11¾	68.25
Cultivated shrubs	70	2	12.00
Mulched trees	163	8¾	51.00
Mulched shrubs	75	2½	13.50
Binders on trees.....	15	1	6.00
Watering .....	...	4	23.50
Removal of snow.....	...	51	298.50
Total cost			\$765.75
Total days			133½
COLUMBUS PARK.			
Pruned trees	21	21½	126.00
Removed trees.....	1	4	24.00
Sprayed trees	83	½	20.50
Cultivated trees.....	50	3½	20.50
Removal of snow .....	...	5¾	32.50
Total cost			\$206.00
Total days			35¼

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
CITY HALL PARK.			
Pruned trees	89	33	192.50
Pruned shrubs	356	42	245.50
Removed trees	4	3	18.00
Removed ivy for transplanting.....	(1,700)	5	29.50
Sprayed trees	534	4¾	27.00
Sprayed shrubs	400	2	11.50
Planted trees	15	21¾	127.75
Planted shrubs	30	2	11.50
Planted ivy	1,000	4¾	27.00
Transplanted shrubs	6	1½	9.00
Preparing trees pits.....	...	22	129.25
Cultivated trees	387	21	123.50
Cultivated shrubs	455	7½	43.50
Cultivated beds .....	...	8¾	51.50
Cleaned trees	76	2	11.00
Cleaned beds .....	...	2	11.50
Fertilized trees	15	1¼	7.50
Cabled trees	2	3	17.00
Removal of snow.....	...	350¼	2,045.22
Staked trees	24	2½	14.50
Treated cavities.....	3	½	3.00
Burlapped trees.....	18	1¾	10.50
Watering .....	...	11	64.50
Total cost			\$3,231.72
Total days			553¾
COOPER SQUARE PARK.			
Pruned shrubs	462	10	58.00
Planted trees.....	2	1½	9.00
Cultivated trees	7	½	2.75
Cultivated shrubs	80	2¾	13.25
Staked trees.....	12	1	6.00
Total cost			\$89.00
Total days			15¾
CORLEARS HOOK PARK.			
Pruned shrubs.....	100	3	17.50
Sprayed trees.....	39	¾	2.75
Cultivated shrubs.....	40	1	6.00
Total cost			\$26.25
Total days			4½
COLEMAN PARK.			
Remove trees	1	2	12.00
Total cost			\$12.00
Total days			2
DONGAN HILLS, STATEN ISLAND.			
Planted Christmas tree.....	1	14½	84.00
Total cost			\$84.00
Total days			14½

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
DEWITT CLINTON PARK.			
Pruned trees	43	15¾	92.50
Pruned shrubs	485	80¾	471.50
Removed trees	3	5¾	32.00
Transplanted trees	28	26¾	156.00
Transplanted shrubs	84	69	403.00
Mulched trees	30	2	12.00
Mulched shrubs	170	29	170.00
Staked trees	8	½	3.00
Restoration .....	...	5¾	33.50
Removal of snow .....	...	2¾	16.00
Total cost		\$1,248.50	
Total days		233¾	
DUANE STREET PARK.			
Cultivated trees	66	4	23.50
Total cost		\$23.50	
Total days		4	
DEWEY SQUARE PARK.			
Removed trees	1	½	3.00
Sprayed trees	15	¼	1.50
Preparing tree pits .....	...	2	12.00
Total cost		\$16.50	
Total days		2¾	
DANTE PARK.			
Pruned trees	25	½	3.00
Pruned shrubs	200	4	24.00
Removed trees	1	1½	9.00
Sprayed trees	27	½	3.00
Planted trees	4	2¾	16.00
Planted beds .....	...	3	17.00
Planted tulips	600	2	11.50
Transplanted trees	2	1½	8.00
Cultivated trees	16	1½	9.00
Cultivated shrubs	64	2¾	13.50
Cultivated beds	1	1	6.00
Cleaned beds .....	...	1½	9.00
Watering .....	...	1	6.00
Mulched beds .....	...	1	6.00
Binders on trees	23	2	11.00
Erect guards	10	2	11.25
Remove guards	12	2¾	12.75
Total cost		\$176.00	
Total days		30¾	
DYCKMAN HOUSE PARK.			
Pruned trees	15	2½	15.00
Removed trees	1	1	6.00
Sprayed trees	85	1½	8.50
Sprayed shrubs	59	¼	1.50
Total cost		\$31.00	
Total days		5¾	

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
DYCKMAN PLAYGROUND.			
Sprayed trees	198	3	16.50
Total cost		\$16.50	
Total days		3	
FORT WASHINGTON PARK.			
Pruned trees	9	10¼	60.00
Removed trees	7	16	93.00
Loading soil .....	...	3¾	22.00
Total cost		\$175.00	
Total days		30	
GREELEY SQUARE PARK.			
Transplanted trees from Park Avenue plots.....	3	2	12.00
Total cost		\$12.00	
Total days		2	
HAMILTON PLACE PLAYGROUND.			
Removed trees	1	½	3.00
Planted trees	6	5	30.00
Cultivated trees	45	2¼	13.00
Erect guards	6	1	5.50
Total cost		\$51.50	
Total days		8¾	
HANCOCK SQUARE PARK.			
Removed trees	7	3½	21.00
Sprayed trees	10	¼	1.50
Planted trees	3	1½	9.00
Cultivated trees	15	1	5.00
Mulched trees	9	1	6.00
Fertilized trees	8	½	3.00
Erect guards	6	1½	9.00
Watering .....	...	1¾	10.00
Total cost		\$54.50	
Total days		11	
HAMILTON FISH PARK.			
Pruned trees	18	2	12.00
Removed trees	3	1	6.00
Planted trees	39	10	59.00
Cultivated trees	38	2	12.00
Watering .....	...	1	6.00
Binders on trees.....	14	1	6.00
Staked trees	16	1	5.50
Total cost		\$106.50	
Total days		18	

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
HARLEM LANE PARK.			
Pruned shrubs	260	6	35.00
Sprayed trees	37	1/2	3.00
Cultivated trees	89	5	29.50
Cultivated shrubs	945	17	98.50
Cleaned shrubs	1,005	15	88.00
Binders on trees	40	1 1/2	9.00
Mulched trees	31	2	12.00
Mulched shrubs	779	12	70.50
Watering .....	...	14 1/2	85.50
Total cost			\$448.50
Total days			73 1/2
HIGHBRIDGE PARK.			
Pruned trees	22	6 1/2	36.50
Pruned shrubs	15	1	6.00
Removed trees	34	52 1/4	315.50
Sprayed trees	1,304	8 3/4	50.00
Planted Christmas tree	1	5	29.50
Transplanted shrubs	44	9	52.00
Erect tree guards .....	...	15	88.50
Total cost			\$578.00
Total days			97 1/2
HERALD SQUARE PARK.			
Removed trees	1	1/2	3.00
Transplanted trees from Park Avenue plots.....	2	1 1/2	9.00
Erect tree guards.....	1	1/4	1.50
Total cost			\$13.50
Total days			2 1/4
INWOOD HILL PARK.			
Pruned trees	5	7 3/4	45.00
Removed trees	18	10 3/4	63.00
Treated cavities in large tulip.....	3	85 1/2	510.00
Treated cavities	15	9 1/4	54.00
Treated cavities in twin tulip	1	32 3/4	192.00
Lettering inscription on large tulip tree.....	...	2	12.00
Marking dead trees .....	...	8	48.00
Total cost			\$924.00
Total days			156
ISHAM GREENHOUSE.			
Removed shrubs for transplanting.....	1,695	13 1/2	78.00
Removed vines for transplanting.....	5,365	15	89.50
Removed ivy for transplanting.....	1,650	4	23.50
Removed pachysandra for transplanting.....	275	1	5.50
Total cost			\$196.50
Total days			33 1/2

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
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ISHAM PARK.

Pruned trees	97	32½	190.00
Pruned shrubs	243	11	64.50
Removed trees	7	6¾	38.00
Removed shrubs	12	1	5.50
Sprayed trees	707	6½	37.00
Sprayed shrubs	1,520	2½	15.00
Cultivated trees	25	1½	8.00
Cultivated shrubs	30	1½	9.00
Cultivated beds .....	...	1	6.00
Treated cavities	13	33½	195.00
Cabled trees	1	2	12.00
Total cost			\$580.00
Total days			99¾

J. HOOD WRIGHT PARK.

Pruned trees	9	16½	96.00
Removed trees	10	17½	101.00
Removed shrubs	7	½	3.00
Sprayed trees	250	3	17.50
Transplanted trees	1	2	12.00
Treated cavities	2	¼	2.00
Total cost			\$231.50
Total days			39¾

JEANNETTE PARK.

Pruned trees	2	1	6.00
Sprayed trees	34	½	3.50
Cultivated trees	73	4½	24.50
Cultivated shrubs	19	1	6.00
Binders on trees	4	¼	1.50
Staked trees	11	¾	4.50
Total cost			\$46.00
Total days			8

JOHN JAY PARK.

Pruned trees	12	6	36.00
Removed trees	10	2¼	12.50
Sprayed trees	256	3½	19.00
Planted trees	9	7	42.00
Binders on trees	27	1½	9.00
Staked trees	12	½	3.00
Watering .....	...	5	30.00
Total cost			\$151.50
Total days			25¾

KUYTER PARK.

Sprayed trees	10	1	5.50
Total cost			\$5.50
Total days			1

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
KENMORE STREET PARK.			
Pruned trees	4	½	3.00
Removed trees	2	½	3.00
Total cost		\$6.00	
Total days		1	
MADISON SQUARE PARK.			
Pruned trees	76	12½	73.00
Pruned shrubs	197	9¾	57.00
Removed trees	13	20	116.50
Removed shrubs	91	9¾	58.00
Sprayed trees	832	11¾	70.00
Sprayed shrubs	1,250	2¾	16.00
Transplanted trees	1	13¾	78.00
Transplanted shrubs	13	2½	14.00
Removed shrubs for transplanting	93	11¾	67.50
Mulched trees	85	3	18.00
Mulched shrubs	214	4½	27.00
Binders on trees	42	2½	14.50
Cultivated trees	61	3¾	21.50
Cultivated shrubs	80	2	11.50
Cultivated beds .....	...	1½	9.50
Fertilized trees	4	1	6.00
Staked trees	31	1½	9.00
Watering .....	...	1½	8.50
Removal of snow .....	...	37½	218.00
Total cost		\$893.50	
Total days		152¾	
MANHATTAN SQUARE PARK.			
Pruned trees	40	14	81.50
Pruned shrubs	34	1½	8.75
Removed trees	8	6	36.00
Removed shrubs	44	3½	21.00
Sprayed trees	408	6	35.50
Sprayed shrubs	100	½	3.00
Planted trees	10	6¾	36.00
Planted shrubs	211	13¾	77.75
Planted beds .....	...	9¼	54.00
Transplanted trees	5	6½	33.00
Mulched trees	86	3½	21.00
Mulched shrubs	100	2½	15.00
Binders on trees	6	¾	2.00
Cultivated trees	291	21½	124.50
Cultivated shrubs	297	8	45.75
Fertilized trees	30	1½	8.50
Staked trees	6	¾	2.00
Watering .....	...	12¾	72.50
Total cost		\$648.75	
Total days		117½	
McKENNA SQUARE.			
Cultivated trees	20	1	6.00
Total cost		\$6.00	
Total days		1	

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
McNALLY PLAZA.			
Pruned trees	28	12	68.50
Pruned shrubs	220	10	59.50
Removed trees	10	4	24.00
Removed shrubs	52	3½	21.00
Sprayed trees	13	¼	1.00
Planted trees	14	17	99.00
Planted shrubs	352	34½	202.50
Planted tulips	1,500	3	17.50
Transplanted shrubs	18	2	11.00
Cultivated trees	154	11	65.25
Cultivated shrubs	1,483	32½	190.50
Cultivated beds .....	...	3	17.00
Mulched trees	13	1	5.50
Mulched shrubs	355	8½	49.50
Cabled trees	1	1½	9.00
Staked trees	18	1¼	7.50
Cleaned shrubs	720	12	69.50
Cleaned beds .....	...	9¼	53.75
Mowing lawns .....	...	1	6.00
Erected guards	2	½	3.00
Binders on trees	5	½	2.00
Watering .....	...	22	130.25
Total cost		\$1,162.25	
Total days		190¼	
MITCHELL SQUARE PARK.			
Pruned trees	21	2¼	13.50
Sprayed trees	126	2	11.50
Planted trees	3	3½	21.00
Planted beds .....	...	1¼	7.50
Planted tulips	500	1	6.00
Cultivated trees	250	15	86.00
Cultivated shrubs	15	½	3.00
Cultivated beds .....	...	3¾	22.75
Mulched beds .....	...	½	3.00
Cleaned beds .....	...	7	42.00
Watering .....	...	6	23.50
Total cost		\$252.75	
Total days		42¾	
MURPHY PARK.			
Pruned trees	3	1	6.00
Pruned shrubs	30	1	6.00
Removed trees	6	11¼	65.00
Sprayed trees	35	½	3.00
Cultivated trees	14	1	5.50
Total cost		\$85.50	
Total days		14¾	
MORNINGSIDE PARK.			
Pruned trees	112	44½	260.00
Pruned shrubs	584	34½	201.50
Removed trees	55	38½	225.00

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
MORNINGSIDE PARK (Cont.)			
Removed shrubs	15	2	12.00
Removed stumps .....	...	4½	26.50
Sprayed trees	1,153	9¾	56.50
Planted shrubs	5	1	6.00
Cultivated trees	504	30½	178.00
Cultivated shrubs	1,381	28	165.50
Cleaned trees	67	1½	9.00
Cleaned shrubs	562	9	53.00
Mulched trees	215	11½	69.00
Mulched shrubs	55	2¾	13.50
Mowing lawns .....	...	17	98.50
Binders on trees	49	2½	15.00
Watering .....	...	5¾	32.50
Repair trees	1	1½	8.50
Removal of snow .....	...	82¾	484.00
Total cost .....	...	\$1,914.00	
Total days .....	...	327	

MOUNT MORRIS PARK.

Pruned trees	15	16½	96.00
Pruned shrubs	135	3½	21.00
Removed trees	6	9½	64.00
Sprayed trees	1,212	18¾	106.50
Sprayed shrubs	1,916	6½	37.50
Planted shrubs	200	4	23.50
Planted beds .....	...	4½	26.50
Planted tulips	3,000	5¾	32.50
Cultivated trees	62	4	23.50
Cultivated shrubs	573	13	77.50
Cultivated beds .....	...	2½	14.50
Mulched beds .....	...	1	6.00
Cleaned shrubs	165	2¼	13.50
Cleaned beds .....	...	2	11.00
Total cost .....	...	\$553.50	
Total days .....	...	93¾	

POLICE HEADQUARTERS.

Restoring, grading and seeding plots .....	...	5	29.50
Total cost .....	...	\$29.50	
Total days .....	...	5	

MONTEFIORE PARK.

Pruned trees	14	3¾	22.50
Planted trees	2	2½	15.00
Planted shrubs	50	3	18.00
Planted beds .....	...	3	18.00
Planted tulips	1,000	2	12.00
Transplanted trees	1	1	6.00
Cultivated trees	82	5	29.00
Cultivated shrubs	50	1½	9.00
Cultivated beds .....	...	6¾	32.50

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
MONTEFIORE PARK (Cont.)			
Mulched beds .....	...	½	3.00
Cleaned beds .....	...	5½	31.25
Binders on trees	5	¼	1.50
Watering .....	...	9½	54.50
Total cost			\$252.25
Total days		44¼	

RIVERSIDE PARK.			
Pruned trees	478	154¾	904.50
Pruned shrubs	4,873	433¼	2,529.75
Removed trees	82	77	450.00
Removed shrubs	62	8	45.50
Removed shrubs (for transplanting)	155	73½	430.00
Sprayed trees	4,046	45¼	264.25
Sprayed shrubs	8,237	18½	107.50
Planted trees	234	65½	382.00
Planted shrubs	2,109	118¼	690.00
Planted beds .....	...	10¼	60.00
Planted vines	12	1	6.00
Planted ivy	200	1½	9.00
Planted tulips	2,000	6	35.00
Transplanted trees	39	41¾	243.00
Transplanted shrubs	434	127¼	744.50
Transplanted vines	32	3½	21.00
Preparing tree pits .....	...	2	11.00
Cultivated trees	538	40¾	237.00
Cultivated shrubs	8,287	186	1,087.00
Mulched trees	330	27¾	161.25
Mulched shrubs	2,605	52½	307.00
Cleaned trees	77	6	36.00
Cleaned shrubs	890	14¾	85.00
Fertilized shrubs	90	4	23.00
Repaired trees	27	9	53.50
Staked trees	346	19½	114.00
Binders on trees	88	4¾	28.00
Restoration of lawns .....	...	191	1,122.00
Mowing lawns .....	...	49¾	291.50
Repair tree guards	22	4	22.50
Removal of snow .....	...	7	41.00
Watering .....	...	132¾	777.00
Treated cavities	5	3	18.00
Removed shrubs for transplanting	113	28½	166.00
Total cost			\$11,502.75
Total days		1,968¼	

ROGER MORRIS PARK (JUMEL MANSION).			
Pruned trees	27	8¾	49.75
Pruned shrubs	1,015	17	99.00
Removed trees	21	8¾	48.00
Sprayed trees	62	1½	9.00
Planted trees	17	6	36.00
Planted beds .....	...	2¾	16.00
Watering .....	...	1	6.00
Cultivated beds .....	...	1¼	7.50
Fertilized trees	16	½	3.00
Total cost			\$274.25
Total days		47	

<i>Kind of Work.</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
ST. CATHARINES PARK.			
Pruned trees	10	3	18.00
Removed trees	2	$\frac{1}{2}$	3.00
Sprayed trees	141	$1\frac{3}{4}$	10.00
Planted trees	1	1	6.00
Mulched trees	68	6	36.00
Mulched shrubs	75	5	30.00
Total cost		\$103.00	
Total days		17 $\frac{1}{4}$	
ST. GABRIELS PARK.			
Pruned trees	6	1	6.00
Pruned shrubs	309	48 $\frac{3}{4}$	281.87
Removed trees	1	$\frac{1}{2}$	2.50
Sprayed trees	175	2 $\frac{1}{2}$	14.00
Sprayed shrubs	160	2 $\frac{3}{4}$	14.00
Cultivated trees	30	$1\frac{3}{4}$	10.00
Cultivated shrubs	285	6 $\frac{1}{2}$	37.00
Removed guards	1	$\frac{1}{4}$	1.50
Removal of snow .....	...	25 $\frac{1}{4}$	147.75
Total cost		\$514.62	
Total days		88 $\frac{3}{4}$	
SCHIFF PARKWAY.			
Removed trees	36	8 $\frac{3}{4}$	48.50
Planted trees	50	6	36.00
Total cost		\$84.50	
Total days		14 $\frac{3}{4}$	
SEWARD PARK.			
Sprayed trees	40	$\frac{1}{2}$	2.75
Cultivated trees	23	$1\frac{1}{4}$	7.50
Total cost		\$10.25	
Total days		1 $\frac{3}{4}$	
ST. NICHOLAS PARK.			
Pruned trees	487	127	742.50
Pruned shrubs	833	49	286.75
Removed trees	54	17 $\frac{1}{2}$	103.00
Removed shrubs	50	5 $\frac{1}{4}$	30.75
Sprayed trees	798	4 $\frac{3}{4}$	26.50
Sprayed shrubs	105	$\frac{1}{2}$	3.00
Planted trees	90	25 $\frac{1}{2}$	149.50
Planted shrubs	363	21 $\frac{1}{2}$	126.50
Transplanted trees	8	3 $\frac{1}{2}$	21.00
Transplanted shrubs	15	2 $\frac{3}{4}$	13.50
Cultivated trees	519	30 $\frac{3}{4}$	180.00
Cultivated shrubs	694	20 $\frac{1}{4}$	119.00
Cultivated beds .....	...	5 $\frac{3}{4}$	34.00
Mulched trees	65	4 $\frac{3}{4}$	26.50
Mulched shrubs	135	4 $\frac{3}{4}$	26.50
Treated cavities	9	8 $\frac{3}{4}$	51.00
Staked trees	50	2 $\frac{1}{2}$	15.00
Binders on trees	88	3 $\frac{3}{4}$	22.00
Mowing lawns .....	...	1 $\frac{3}{4}$	10.50
Watering .....	...	13	76.50
Total cost		\$2,056.00	
Total days		352 $\frac{3}{4}$	

<i>Kind of Work.</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
SMITH PARK.			
Pruned trees	6	1/2	3.00
Removed trees	3	2 1/2	14.00
Cultivated trees	33	1 1/2	9.00
Cultivated shrubs	26	3/4	4.50
Binders on trees	40	2 1/4	13.00
Staked trees	4	3/4	1.50
Mulched trees	35	1 3/4	10.50
Mulched shrubs	28	1	6.00
Total cost		\$61.50	
Total days		10 1/2	
STRAUS PARK.			
Pruned shrubs	75	2	12.00
Sprayed trees	35	3/4	4.50
Cultivated trees	27	2	12.00
Cultivated shrubs	175	5 3/4	34.50
Binders on trees	9	3/4	4.50
Erected tree guards	12	2 1/2	15.00
Repaired tree guards	6	1 1/2	9.00
Fertilized trees	12	1	6.00
Watering .....	...	6 1/2	37.50
Total cost		\$135.00	
Total days		22 3/4	
STUYVESANT PARK.			
Pruned trees	36	31 3/4	186.00
Pruned shrubs	40	1 1/2	9.00
Removed trees	21	37 3/4	220.00
Sprayed trees	363	4 3/4	28.00
Planted trees	29	13 3/4	80.50
Planted shrubs	6	1 1/2	9.00
Planted beds .....	...	15 3/4	93.00
Planted tulips	3,000	4	23.50
Cultivated trees	80	3 3/4	22.00
Cultivated shrubs	280	5 3/4	37.50
Cultivated beds .....	...	5	30.00
Mulched trees	130	6 1/2	37.00
Mulched shrubs	113	2 3/4	16.50
Mulched beds .....	...	1 1/2	9.00
Cleaned beds .....	...	5	29.50
Staked trees	35	2 1/2	14.00
Binders on trees	29	1 1/2	9.00
Watering .....	...	1/2	2.00
Treated cavities	3	1/4	2.00
Removal of snow .....	...	22	128.50
Total cost		\$990.00	
Total days		167 3/4	
SHERIDAN SQUARE PARK.			
Pruned shrubs	100	1 1/2	8.50
Removed shrubs	20	1	6.00
Planted trees	4	1 1/2	9.00
Planted shrubs	20	1	6.00

<i>Kind of Work.</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
SHERIDAN SQUARE PARK (Cont.)			
Cultivated trees	14	¾	4.00
Cultivated shrubs	488	5¾	34.00
Mulched trees	10	2	12.00
Mulched shrubs	120	½	3.00
Staked trees	4	¼	1.50
Watering .....	...	1½	9.00
Total cost			\$93.00
Total days			15¾
THOMAS JEFFERSON PARK.			
Pruned trees	10	2	12.00
Removed trees	13	3½	21.00
Sprayed trees	570	2¾	16.50
Planted trees	9	2¾	16.00
Transplanted trees	2	2½	15.00
Cultivated trees	51	3½	19.50
Cultivated beds .....	...	1¼	8.00
Mulched trees	45	3¾	20.50
Mulched shrubs	75	5¾	32.50
Staked trees	29	1¾	10.00
Binders on trees	171	8½	49.50
Watering .....	...	1½	8.50
Total cost			\$229.00
Total days			39¾
TOMPKINS SQUARE PARK.			
Pruned trees	30	15	89.00
Removed trees	15	20	115.00
Sprayed trees	626	5¾	34.00
Sprayed shrubs	65	½	2.50
Planted trees	14	6¾	38.50
Planted beds .....	...	4	23.50
Transplanted trees	4	4	24.00
Cultivated trees	228	11	64.75
Cultivated beds .....	...	5	29.00
Mulched trees	182	11¾	66.50
Mulched shrubs	10	¼	2.00
Mulched beds .....	...	½	3.00
Cleaned beds .....	...	4	22.75
Staked trees	70	4¾	28.00
Binders on trees	100	5¾	34.00
Repaired trees	9	3½	20.50
Removal of snow .....	...	27	157.25
Total cost			\$754.25
Total days			129½
UNION SQUARE PARK.			
Removal of snow .....	...	26¾	153.95
Supervised topsoil delivery .....	...	83¾	486.00
Total cost			\$639.95
Total days			109¾

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
VERDI PARK.			
Sprayed trees	8	¼	1.00
Repaired trees	2	1½	9.00
Repaired shrubs	10	1	6.00
Watering .....	...	2½	14.00
Total cost			\$30.00
Total days		5¼	
WASHINGTON SQUARE PARK.			
Pruned trees	63	42½	248.50
Removed trees	20	23	134.00
Sprayed trees	882	8¾	48.50
Sprayed shrubs	100	½	3.00
Planted trees	28	10¾	62.50
Planted Christmas trees	1	18½	108.00
Planted beds .....	...	6¾	38.50
Planted tulips	1,775	8½	48.50
Transplanted trees	8	4½	27.00
Preparing tree pits	1	7½	44.50
Cultivated trees	120	8½	48.00
Cultivated shrubs	85	2½	14.00
Cultivated beds .....	...	1	6.00
Mulched trees	204	11	64.50
Mulched shrubs	150	4	23.50
Mulched beds .....	...	2	12.00
Cleaned beds .....	...	9	53.50
Treated cavities	13	27½	159.00
Cabled trees	2	7	42.00
Staked trees	91	4½	27.00
Binders on trees	113	5¾	33.50
Watering .....	...	10¼	59.50
Total cost			\$1,305.50
Total days		224¼	

TOTAL SMALL PARK ACTIVITIES FOR THE YEAR 1930.

<i>Kind of Work</i>	<i>Number</i>	<i>Days</i>	<i>Cost</i>
Trees planted	622	264½	\$1,545.50
Trees pruned	2,639	911	5,321.25
Trees removed (dead) and damaged	547	494	2,886.50
Trees sprayed for insect pests	19,706	191	1,155.25
Trees mulched with manure	2,032	115½	675.50
Trees cultivated and weeded	5,691	340	1,984.00
Trees cleaned of egg masses	225	9½	56.00
Trees fertilized with inoculation	85	6	34.00
Trees transplanted	120	133½	779.50
Trees staked for protection	911	54½	318.50
Trees binders repaired	1,283	70	405.50
Trees surgery, cabling weak limbs	10	18½	106.00
Trees large spruces planted	3	38	221.50
Trees cavities repaired (large)	79	205½	1,206.00

<i>Kind of Work.</i>	<i>Number</i>	<i>Days</i>	<i>Amount</i>
Trees repaired damaged by autos	42	17	97.00
Trees guards erected	37	8	45.25
Trees guards repaired	28	5½	31.50
Trees guards removed	13	2½	14.25
Trees burlapped	18	1¾	10.50
Shrubs planted	3,836	244¼	1,426.25
Shrubs pruned	18,058	1,081	6,312.87
Shrubs removed dead and damaged	381	37	216.25
Shrubs sprayed for insect pests	6,562	41½	241.50
Shrubs mulched with manure	6,507	156½	915.25
Shrubs cultivated and weeded	18,918	420½	2,457.00
Shrubs cleaned of egg masses	4,102	65	380.00
Shrubs fertilized with inoculation	90	4	23.00
Shrubs transplanted	651	247½	1,446.25
Tulips planted	23,050	56½	331.50
Vines planted	87	2½	14.50
Ivy planted	1,250	6	36.00
Vines transplanted	32	3½	21.00
Vines removed for transplanting	5,365	15½	89.50
Shrubs removed for transplanting	2,056	127	741.50
Ivy removed for transplanting	3,350	9	53.00
Ground cover removed for transplanting	2,275	6	34.50

HERBACEOUS BEDS.

Mulched flower beds with manure .....	...	12	69.00
Cultivated and weeded flower beds .....	...	70	406.25
Planted flower beds .....	...	89	519.50
Cleaned flower beds of insect pests .....	...	57½	335.25

MISCELLANEOUS WORK.

Fertilized lawns with inoculation .....	...	6	35.50
Removal of snow from walks .....	...	791	4,620.42
Watered trees, shrubs, lawns and beds .....	...	307½	1,794.25
Restoration and seeding of lawns .....	...	272½	1,591.50
Loading soil for planting .....	...	4	22.00
Erected fences .....	...	3½	20.50
Supervision of topsoil delivery by contractor .....	...	83½	486.00
Mowing weeds around plantation .....	...	69½	406.50
Lettering inscription on tulip tree (Inwood) .....	...	2	12.00
Marking dead trees for removal .....	...	8	48.00
Total cost of labor		\$42,000.04	
Total days		7,187	



EASTER FLORAL DISPLAY, CONSERVATORY—CENTRAL PARK

REPORT OF THE HORTICULTURAL DIVISION

Horticultural activities of Conservatory and Greenhouses in Central Park—Borough of Manhattan.

FLOWER EXHIBITIONS.

Public interest was especially manifested by the increased attendance at the Conservatory during the past year. The number of visitors viewing the floral exhibitions was estimated to be at least 40% more than that of past years. During the Easter display alone over ten thousand people visited the Conservatory; a special feature of the exhibit was the showing of five thousand Easter Lilies in bloom, grouped and arranged with seventy-five hundred other flowering plants of numerous varieties, consisting of Azaleas, Cyclamen, Buddlens, Hydrangias, Jasmines, Cinararias, Primulas, Calla and Amaryllis, Lilies, Fuchias; also flowering bulbs, many varieties of Hyacinths, Tulips, Narcissus, Fressias, Flowering Cherry, Crab Apple and Peach trees. In addition to the above the opening fall season was specially featured with many beautiful fall flowers.

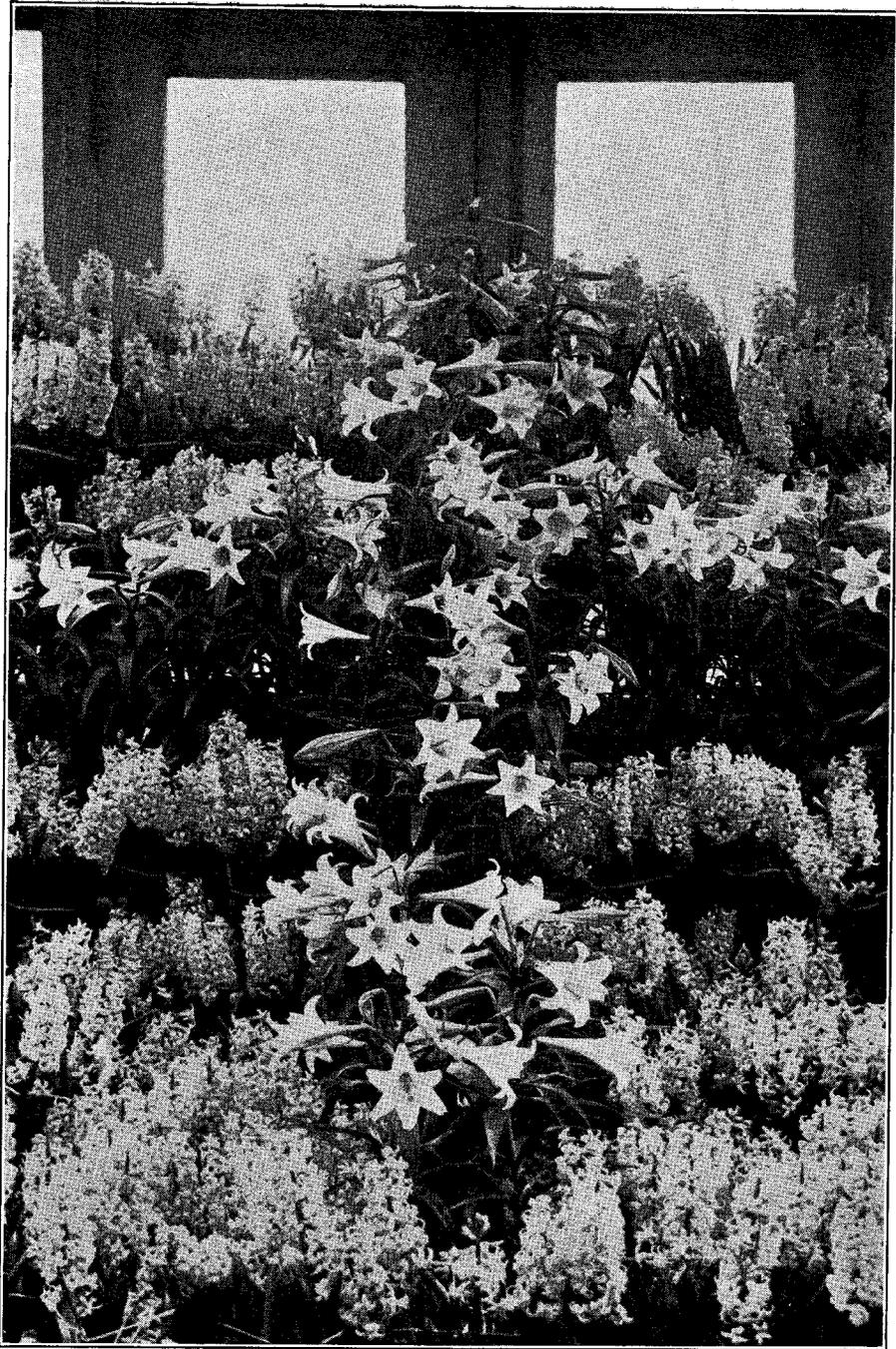
In November the annual exhibition of Chrysanthemums was held; over five thousand blooms were displayed and thirty new varieties were added to the collection which now comprises over two hundred, all of which have been grown in the department greenhouses.

TROPICAL PALM AND FERNERY HOUSES.

The usual collection of over 4200 plants of tropical origin was placed on exhibition in the tropical houses. A large number of new propagation was struck from the old stock plants, and all weak and partially dead plants were removed. Botanical labels were revised and corrected to display the proper descriptive names; these were also repainted. During the year all plantations in these houses were thoroughly cleaned, cultivated and resoiled.

Necessary repairs to the angle iron supports made it obligatory to close the palm house to the public during mid-summer. However, after the completion of this work the four hundred palms of many varieties and sizes and three hundred and fifty other ornamental plants were cleaned and sprayed to prevent insect infestation. These were arranged in groups for public display in the early part of August.

In the southern part of the Conservatory enclosure an extension to the existing hot bed and cold frame range was constructed and completed in January 1930. This improvement added 75 more hot beds (sash frames) to the nursery and provided much needed space in our limited area for the propagation and production of at least thirty-five percent more plants for the flower beds in the parks of Manhattan.



EASTER FLORAL DISPLAY, CONSERVATORY—CENTRAL PARK

In addition, a tapered stone wall was built for the purpose of retaining the sloping bank and providing a level grade for cold frames and to act as a partial-screen for the collection of old foliage and other refuse that temporarily accumulates from the greenhouses and adjacent sections, until it is carted away by trucks.

GREENHOUSES OF CONSERVATORY, CENTRAL PARK—MANHATTAN.

With the completion of the five new additional greenhouses planned and approved and to be contracted for the latter part of the winter of 1931, a large amount of space will be added to our present limited area for the propagation and growth of flowering plants.

There are now seventeen large and small greenhouses in the range, protecting and housing approximately 65,000 plants, of numerous species, which, during the spring months, increase to 145,000; in addition to these some 450 hot bed and cold and storage frames contain over 30,000 flowering plants which are being prepared for distribution and planting in the various flower beds through the parks in the Borough of Manhattan.

FLOWER BEDS IN MANHATTAN PARKS.

New summer flower beds were laid out and planted at the following park locations in the Borough of Manhattan.

City Hall Park—On the site of the old City Court building, opposite the Hall of Records.

Washington Square Park—West, opposite 4th Street.

Tompkins Square Park—Avenue B—between 7th and 9th Streets.

Stuyvesant Square Park—East and West, between 15th and 16th Streets, and Second Avenue.

Bryant Park—42nd Street near Sixth Avenue.

Carl Schurz Park—East 88th Street—Gracie Square.

Claremont House—West—opposite 123rd Street and Riverside Drive.

Montefiore Square—138th Street and Broadway.

Highbridge Park—176th Street and Amsterdam Avenue.

FLOWER BEDS—CENTRAL PARK.

The largest of the summer flower beds in the Borough of Manhattan, and one which requires over sixteen thousand flowering plants to complete the plantation, is at the 106th Street and Fifth Avenue entrance to Central Park.



FLOWER BED ON SITE OF OLD COURT HOUSE, CITY HALL PARK

During the late fall, 75,000 tulip bulbs, of many varieties were set out in the flower beds of the Manhattan Parks from the Battery to Isham Park at 212th Street and Broadway, which will result in an early spring floral display. The additional thirty-five thousand bulbs which were donated to the department were distributed and planted (with the cooperation of the gardening crew of the Forestry Bureau) throughout the prominent locations on the drives in Central Park and Riverside.

Following is a detailed account of summer flowering plants grown in the greenhouses and set out in parks and parkways of the Borough of Manhattan during the season of 1930:

700 Ageratum	500 Crassula
26,000 Alternanthera	5,000 Echeveria
17,500 Begonias	200 Klenia
17,000 Geraniums	200 Mesembryanthemum
15,500 Cannas	200 Cuphias
6,000 Coleus	800 Centurea
7,500 Santalinas	1,000 Salvia
2,000 Iresines	700 Crotons
3,000 Varieties (mixed)	500 Meranthemum
	2,000 Golden Privet

Totalling 107,600 plants.

The following flowering plants were propagated and grown for exhibition houses at Conservatory, Central Park:

1,000 Azeleas	5,600 Chrysanthemums
800 Cyclamen	200 Calendula
2,000 Cinnararias	300 Schizanthus
200 Carnations	200 Antirrhums
50 Buddleias	6,000 Primulas
510 Heathers	200 Solanums
700 Stevias	200 Daisy
300 Poinsettias	50 Genista

Making a total of 18,310 plants.

FLOWERING BULBS.

4,800 Tulips, all varieties
8,000 Hyacinths, all varieties
4,000 Narcissus, all varieties
1,200 Lilies, all varieties

ISHAM PARK.

The following plants were grown and propagated in greenhouses and field nursery at Isham Park:

3,000 Ampelopsis Quinquefolia
3,500 Pachysandra Germinalis
1,500 Ampelopsis Veitchii
2,000 Euonymus Japonica 18" high
2,700 Lonicera Halls

300 Boxwood, 12" high
 2,000 Aralea Pentaphela
 800 Myrtle
 500 English Ivy
 400 Canterbury Bells
 3,500 Honeysuckle
 1,000 Polyganum

 21,200 in all.

REPORT, 1930.

The following is a detailed account of the number and kind of plants distributed and planted in the following Parks, Parkways and School Farms in the Borough of Manhattan from the Conservatory during 1930:

New flower bed City Hall Park on site of Old City Court opposite Hall of Records.

1 Dracenas-Drago
 4 Yucca
 200 Canna
 175 Centurea
 250 Mesembryanthemums
 550 Alternanthera
 800 Geraniums

 1,980 Plants
 2,250 Tulip Bulbs in variety.

New flower bed planted at Bryant Park.

125 Canna
 140 Eresina
 150 Geraniums
 200 Alternanthera
 165 Salvia
 4 Dracena-Ind.
 1 Phoenix

 785 Plants
 2,000 Tulip Bulbs in variety.

TOMPKINS SQUARE PARK SCHOOL FARMS.

470 Summer Flowering Plants.

Two (2) New Flower Beds laid out and planted at Stuyvesant Square Park.

EAST BED.

100 Canna
 125 Salvia
 125 Geraniums
 250 Santilinas
 1,500 Tulips

WEST BED.

100 Canna
125 Salvia
125 Geraniums
250 Santilinas
1,500 Tulips

New Flower Borders planted at Carl Schurz Park.

75 Salvia
25 Canna
160 Geraniums
125 Centurea
225 Santilina

610 Plants
2,500 Tulip Bulbs in variety.

HIGHBRIDGE PARK.

1,250 Flowering Plants.

MANHATTAN SQUARE PARK.

1 Dracena-Ind.
4 Yucca
175 Eresina
125 Canna Red K. H.
350 Geraniums Mr. Langty
650 Geraniums Parker
800 Santilinas
500 Ligustrum

2,605
3,000 Tulips in variety.

BOAT HOUSES IN CENTRAL PARK.

410 Flowering Plants.

PARK AVENUE, PARKWAY PLOTS.

FROM 47TH TO 72ND STREETS.

400 Begonia
350 Santilina
290 Pyrethrum
840 Flowering Plants
835 Coleus
2,750 Canna Mixed

5,475

FORT WASHINGTON PARK.

1,250 Flowering Plants.

BATTERY PARK.

550 Cannas
350 Salvia
400 Pyrethrum
200 Santilina
31 Recinus

1,631

5,500 Tulip Bulbs in variety.

This being additional amount of 4,300 over that of 1929

CITY HALL PARK—FLOWER BEDS.

1,250 Cannas
250 Salvia
5,090 Alternanthera
2,840 Geraniums
1,250 Begonia
960 Crotons
390 Santilinas
500 Mesembryanthemums
600 Centurea
390 Stevias
950 Echeverias
8 Grevillias
590 Golden Privet
400 Eresina
190 Abutilorn
40 Dracinas
12 Centre Plants
20 Recinus
3,500 Daisies and Pansies

19,230

22,250 Tulip Bulbs in variety.

CIVIC CENTRE, LAFAYETTE STREET.

450 Cannas
90 Centurea
170 Pennisetum
1 Recinus

711

2,000 Mix Variety Tulips.

MADISON SQUARE PARK FLOWER BED.

1 Centre Plant
4 Dresceina Ind.
800 Ascherveria
800 Geranium Mix
200 Begonia
325 Ligustrum
200 Crotons

2,330

3,000 Tulips mix variety.

SEWARD PARK.

110 Cannas
200 Flowering Plants.

WASHINGTON SQUARE PARK.

1 Phoenix
200 Canna
200 Geranium
350 Begonia
130 Centurea

881
2,200 Tulips in variety.

THOMAS JEFFERSON PARK SCHOOL FARMS

1,150 Flowering Plants.
750 Tulips in variety.

CHELSEA PARK.

640 Flowering Plants.

DEWITT CLINTON SCHOOL FARMS.

1,052 Variety Summer Annuals.

MALL, CENTRAL PARK.

410 Mix Variety for Ornamental Vases.

PLAZA, 59TH STREET AND 5TH AVENUE.

560 Cannas
2,790 Alternanthera
2,075 Begonia
450 Centurea
500 Eresine
410 Mixed variety
200 Achyranthes

6,985
13,730 Tulips in variety.

MANHATTAN SQUARE PARK.

1 Centre Plant
125 Cannas
4 Dracenia
225 Ligustrum
900 Geraniums
400 Alternanthera
800 Ascberveria

2,450
3,000 Tulips in variety.

RIVERSIDE DRIVE AND 72ND STREET.

4 Dracenia
775 Alternanthera
300 Begonia

1,079
2,500 Tulips in variety.

SHAKESPEARE GARDEN.

4,420 Flowering Plants.
1,850 Tulips in variety.

MT. MORRIS PARK FLOWER BEDS.

1 Phoenix
8 Dracenia
300 Cannas
1,400 Alternanthera
320 Begonia
350 Geraniums

2,379

DYCKMAN HOUSE FLOWER BEDS.

750 Flowering Plants.
1,000 Tulips in variety.

CLAREMONT PARK.

295 Begonia
100 Geraniums
50 Cannas
360 Flowering Plants.

805

ISHAM PARK FLOWER BEDS.

425 Flowering Plants.
2,000 Tulips in variety.

JUMEL MANSION.

1,200 Flowering Plants.

BUREAU OF MAINTENANCE.

The Department maintained within the parks fifty-one comfort stations, 37 single tour and 14 double tour for men; also forty-six comfort stations for women, 30 single tour and 16 double tour.

Single tour comfort stations operate from 9 a. m. to 5 p. m. or 10 a. m. to 6 p. m.

Double tour comfort stations operate from 7 a. m. to 2 p. m. and from 2 p. m. to 10 p. m.

There are also bathing facilities for the use of men and women in the following parks:

DeWitt Clinton
Thomas Jefferson,
Seward, and
Hamilton Fish Parks

The men's comfort station in Hudson Park has been demolished and a swimming pool is being constructed.

The working force under the Bureau of Maintenance and Operation consisted of the following:

1 Forester.
1 Arboriculturist.
1 Foreman of Mechanics.
1 General Foreman.
3 District Foremen.
22 Park Foremen.
400 Laborers all year round (670 summer months).
4 Stablemen.
1 Supervisor of Attendants (Female).
68 Attendants.
1 Caretaker (Female).
1 Caretaker (Male).
8 Watchmen.
20 Drivers.
23 Auto Enginemen.
1 Foreman of Greenhouses (Gardener).
22 Gardeners assigned to Greenhouses.
39 Gardeners assigned to Forestry Bureau.
57 Climbers and Pruners.
10 Keepers.
68 Mechanics.
1 Machinist.
1 Supervisor of Attendants (Male).
31 Attendants (Male), per annum.
22 Attendants (Male), per diem.
1 Curator.

CARE OF LAWNS.

The proper maintenance of lawns, in view of the poor soil generally existing in Manhattan park areas and the constant crowded use of park ter-

ritory, is one of the most difficult problems of the administration. Carelessness and lack of respect for public property on the part of those using the parks as well as insufficient police protection have caused our lawns to deteriorate to such an extent that a thorough re-seeding has become necessary throughout the parks in the Borough of Manhattan.

The areas were spread with stable manure which was ploughed in the autumn and seeded with corn, peas and rye, which in turn were ploughed in the spring. The ground was then harrowed and raked; lime used where required and seed sown.

To allow the newly seeded areas an opportunity to become thoroughly established, temporary six-foot wire mesh fences were erected around such areas.

All small lawn areas where the grass was weak and had deteriorated, were spaded and seeded during the spring. Lawns in comparatively good condition were maintained and improved by putting on top dressing and well rotted stable manure in the early winter or were treated with commercial fertilizer in the spring.

3,750 tons of rotted stable manure were distributed on the lawns and plantations throughout the parks in the Borough of Manhattan.

Sod.

50,250 square feet of sod was purchased and laid along the borders, drives and lawns throughout Central Park, Riverside Drive, City Hall, Washington Square, Battery, Bowling Green, Bryant, Madison Square, and Carl Schurz Park and other places requiring it.

DRIVES AND BRIDLE PATHS.

The bridle paths and drives in Central Park and Riverside Drive were spiked up with road rollers and re-surfaced with fresh gravel. At many points where the constant addition of new gravel from year to year had raised the grade of the path too high, the surplus gravel was removed and the surface brought to the proper grade. During the summer the bridle path has been sprinkled daily and a layer of calcium chloride was used in order to keep the dust down. These drives have been kept in as good condition as possible with the small amount of money available for laborers and repairs.

SKATING AND BAND CONCERTS.

The skating houses erected at the large lake, 72nd Street, and Harlem Meer, 110th Street, Central Park, for use during the season 1930, will be

removed in the spring, stored for the summer and re-erected at the beginning of the winter.

CONCERT SEASON.

During the concert season, temporary bandstands and seats and the necessary electric lighting were installed in those parks which are not provided with permanent stands. A large number of festivals and celebrations were held in the parks during the year which necessitated extra work for the labor and mechanical forces.

GARAGE.

The equipment for maintaining the work throughout the Department of Parks in the Borough of Manhattan consists of:

- 1— $\frac{3}{4}$ ton truck.
- 2— $1\frac{1}{2}$ ton truck.
- 3— 2 ton truck.
- 4— 3 ton truck.
- 5 Fords—runabout—business body.

MECHANICAL FORCE.

The mechanical force of the Department was employed largely in small job repairs necessary to keep the buildings, structures and equipment of the Department in good condition. Work orders were issued covering the work to be done by the mechanical force.

Playground structures and apparatus were kept in condition for use throughout the season and new supplies, jumping ropes, swings, etc., were made at the Department work shops for use in the playgrounds.

REPAIRS.

Kinderberg, Section 1, Central Park—Repairs to rustic work, roof, seats, table, etc.

Repair and paint direction signs.

Repairs to Bridges 13 and 16.

Repair and maintenance of irrigation system in Central Park, 59th to 110th Streets, during the summer and shut off in the fall.

Repairs to benches (concrete) at 59th Street Plaza.

Repairs to bridge and parapet wall, 60th Street and 7th Avenue.

Water fountain replaced at Empire Park.

MENAGERIE.

Electrical blowers were installed for the purpose of disinfecting and ventilating the Lion House.

The various animal houses and cages were repaired from time to time during the year 1930.

A winter stone hut was erected for the seals.

LAKE, 59TH STREET, CENTRAL PARK.

A platform was built for cleaning the lake.

ARSENAL BUILDING.

Shelves were erected in basement for the storing of Department records.

Closet built in basement for storing tools.

Partitions were erected in the Bureau of Recreation.

Shelves were erected in the Forestry Bureau.

Arsenal Restaurant—Exterior repaired and painted.

Heckscher Playground—Interior and exterior of milk booth painted.

72nd Street and 8th Avenue and West Drive—Rustic arbor repaired.

Sheep Meadow—Double bandstand erected for celebration held May 13th for Public School athletics (Mrs. Emily O'Keefe).

Sheepfold Building—Exterior of building repaired and painted.

Mall, Central Park, Bandstand—Minor repairs to stand and paint of same; all chairs and music racks repaired. Signs made, "Concerts given by the Goldman and Naumburg Bands," and placed at all entrances to Central Park.

Museum of Natural History—Constructed chain link fence.

Bridge 10, Central Park—Repaired.

Summer House, 72nd Street, Foot of Large Lake—Repaired.

79th Street Yard—Storage shed repaired; electric lights installed as per specifications; brick furnace constructed.

Belvedere Weather Bureau—Hanging weather recording machine repaired; interior repaired and painted; instruments and shelter plot painted.

- 93rd Street Tennis House—Interior repaired and painted; the entire mesh fence around tennis courts repaired and painted.
- 96th Street Riverside Drive Men's Comfort Station—Gas radiator wires removed from 96th Street Riverside Drive and taken to the Gilday House, 173rd Street and Riverside Drive.
- Grant's Tomb Building and Boiler—Boiler at Grant's Tomb overhauled and repaired; pipes leading to sewer re-laid.
- Morningside Park Women's Comfort Station—Interior, including attendant's room and corridor, repaired and painted.
- St. Nicholas Park—4" water line inspected and repaired as per blueprint furnished by engineers.
- St. Nicholas Playground—Surface around supports of Jungle Gym concreted.
- Watergate Playground—The entire Jungle Gym was reinforced; roof, floors and walls of field house and steps were repaired.
- Riverside Extension—Slabs on concrete benches from 140th to 153rd Streets repaired and replaced.
- Riverside Extension, 145th Street—Coping on the north side of 145th Street repaired and reset.
- Riverside Extension, 147th Street, Easterly Side of Drive—Depression in asphalt between electric conduit box and manhole cover repaired.
- Riverside Extension, 151st Street—Leak coming from line located over men's comfort station repaired.
- Riverside Extension, 144th-145th Street—The cross walk from 144th to 145th Street to the retaining wall, which was reported undermined, was made safe.
- 138th Street Riverside Women's Comfort Station—In order to prevent false entry an iron cross-bar was installed from top of large iron gate to top of brick archway.
- Hamilton Place Playground—Repairs were made to brickwork around manhole and earthen pipe laid.
- Hamilton Place Men's Comfort Station—Interior repaired and painted.
- Hamilton Place Women's Comfort Station—Interior repaired and painted.
- Speedway Comfort Station, 175th Street—Exterior repaired and painted.

Harlem River Driveway—Four signs were made to read “Speed limit 35 miles per hour”; two were placed at the northern end and two at the southern end.

Isham Mansion—Repairs were made to roof and sidewalls plastered.

Dyckman House—Exterior repaired and painted.

Inwood Hill Park—Inscription on tree lettered, “Large Hendrick Hudson Tulip Tree.”

Mount Morris Women’s Comfort Station—Repairs were made to slate roof and all doors.

Mount Morris Men’s Comfort Station—Interior of male attendant’s room repaired and painted.

Thomas Jefferson Building—In order to prevent windows from being broken, screens were erected on exterior of windows.

Thomas Jefferson School Farm—New hot water heater was installed.

Yorkville Building—Interiors of boys’ and girls’ comfort stations were repaired and painted.

Carl Schurz Park—Stone steps were repaired and wall reset and pointed up.

DeWitt Clinton, Men’s Shower Room—Interior repaired and painted.

Bryant Park Men’s Comfort Station—Interior of male attendant’s room repaired, painted and plastered.

Bryant Park Women’s Comfort Station—Roof repaired; ceiling and sidewalls plastered; interior painted.

Madison Square Women’s Comfort Station—Interior repaired and painted.

Madison Square Men’s Comfort Station—Ceiling and sidewalls plastered; interior painted.

Chelsea Park Women’s Comfort Station—Exterior repaired and painted.

Chelsea Park Men’s Comfort Station—Repaired ceiling and sidewalls.

Hudson Park Men’s Comfort Station—This has been demolished and a swimming pool is being constructed in its place which will be under the jurisdiction of the Borough President.

Hamilton Fish Men’s Comfort Station—Interior repaired and painted.

Hamilton Fish Women’s Comfort Station—Interior repaired and painted.

Hamilton Fish Playground Field House—Interior repaired and painted.

Tompkins Square Boiler Room—Interior repaired and painted.

Tompkins Square Women's Comfort Station—Interior repaired and painted.

Tompkins Square Wading Pool—Pool repaired; water was seeping through the cement.

East 17th Street Playground Field House—Interior of field house repaired and painted.

City Hall Park—Entrance of tool house changed so as to face Broadway side.

Columbus Park Men's Comfort Station—Interior repaired and painted.

Columbus Park Women's Comfort Station—Interior repaired and painted.

Columbus Playground, Field House—Interior of field house repaired and painted.

64th Street Nursery, Central Park—Water lines repaired and laid.

66th Street Nursery, Central Park—Electric lights installed.

GARAGE.

Spraying machines overhauled and painted. Garage office painted. Lawn rollers repaired and painted. Worthington tractor repaired and painted.

STORE-ROOM.

Office repaired and painted.

SEWARD PARK BUILDING.

Was completed and turned over to this department January 19, 1931, and same has been open to the public.

PLUMBING.

Necessary plumbing repairs were made to all men's and women's comfort stations, baths, field houses, sewers, water supply lines, etc., throughout the parks in the Borough of Manhattan.

STOVES.

Necessary repairs were made to all stoves, stove pipes, boilers, chimneys and heating apparatus throughout the parks.

DISPLAY FOUNTAINS.

Necessary repairs to all display fountains throughout the parks. The water was turned on in the spring and off in the fall.

DRINKING FOUNTAINS.

Repairs were made to all drinking fountains throughout the parks. Broken ones were replaced with new ones wherever required.

RUSTIC BENCHES AND ARBORS.

Repairs were made to rustic benches and arbors wherever required throughout the parks.

BENCHES.

New benches were re-assembled and old benches were repaired and painted as required throughout the parks. Cement benches were installed in Madison Square Park.

FENCES.

The iron fences along the Broadway plots from 60th to 122nd Streets were repaired as required. Also those along Park Avenue plots, 34th to 41st Streets and from 59th to 60th Streets. Also those along Seventh Avenue plots, 110th to 153rd Streets, which required daily attention from the department iron workers as they were constantly being damaged by automobiles and horse-drawn vehicles.

Repairs were made from time to time to the pipe-rail fences, chain link fences and iron picket fences wherever required in the various parks.

BRIDGES.

Repairs were made to all bridges in Central Park, which were constantly being broken by automobiles.

WATER LINES.

Repairs were made to the old water supply lines and new lines were laid wherever required.

HALYARDS.

Halyards were replaced on flagpoles wherever required throughout the parks.

SIGNS.

Signs were re-lettered and painted and new signs made standard color as required throughout the parks.

PLAYGROUND APPARATUS.

Repairs were made to all playground apparatus and equipment throughout the various playgrounds in the parks.

WALKS.

Walks throughout the parks were repaired and relaid.

ROADWAYS AND GUTTERS.

Necessary repairs were made to roadways and gutters, depressions were also filled in wherever found throughout the parks.

POLICE BOOTHS.

Repairs were made to police booths wherever required.

LEADERS AND GUTTERS.

Repairs were made to leaders and gutters where required throughout the parks.

RADIATORS.

All radiators were overhauled and repaired as required throughout the buildings in the parks.

ELECTRIC SUPPLIES.

Lighting fixtures were repaired and new ones installed wherever required throughout the buildings in the parks. All bandstands where concerts were given were wired and lights furnished; also lighting for Christmas trees in the various parks and playgrounds.

OFFICE EQUIPMENT.

Repairs were made to all office equipment as required.

ROLLING STOCK.

Repairs were made to all rolling stock as required.

HARNESS.

Repairs were made to all harness as required.

STATUES AND MONUMENTS.

All statues and monuments were repaired and cleaned wherever found necessary.

MARBLE PARTITIONS AND TILE.

Repairs were made to all marble partitions and tile wherever required.

RE-GLAZING.

Repairs were made to windows, catches and sashcords and replacements made where necessary. Re-glazing was also done where required.

BOILERS AND HEATING PLANTS.

All boilers and heating plants were overhauled and repaired as required throughout the year.

BASINS AND MANHOLES.

Drain basins and manholes were cleaned out and repaired wherever required.

RECREATION PIERS AND PLAYGROUNDS.

The Department maintained the following recreation piers during the summer time for a period of seventy days, and the following force was required to operate them:

Piers.
Barrow Street
East 3rd Street
Market Street
West 129th Street

Employees.
12 Male Attendants
6 Female Attendants
1 Foreman

With the small labor force employed we maintained 98,031 acres of lawns, cleaned and cut grass, also cleaned the comfort stations, tool houses,

shelter houses, gymnasium buildings, and put the bridle paths in shape, also put up and took down the swings in the playgrounds each day.

During the year 1930 money was appropriated for the purpose of appointing 259 additional laborers.

During the summer months a considerable amount of calcium chloride was purchased and spread over the bridle paths and playgrounds, which disinfected the ground and kept the dust down.

Besides the regular routine work, the following special work was accomplished during the year :

RELIEF FOR THE UNEMPLOYED.

Five trucks were placed at the disposal of the committee to be used for the distribution of food or in any other way the committee deemed advisable.

Supplied Mayor's Committee headquarters with one hundred benches.

Gathered, sawed and cut 100 cords of firewood, which is now ready for disposal, subject to the committee's instructions.

The Mayor of The City of New York with the aid of the Board of Estimate appropriated money with which to employ 800 laborers at \$5.50 per day for three days a week. The laborers were assigned to Highbridge Park on special work, such as cutting down dead trees, removing rock, cleaning roads and filling in depressions, repairing roads, etc.

In addition to the above, 1,000 laborers were also appointed by the New York Association for the Improvement of the Condition of the Poor, for three days a week. These men were paid by the Association and assigned to work, cleaning up Highbridge, under the supervision of the Department of Parks.

Stone wall repaired and concrete coping put on top of wall at the entrance to west drive to bridle path, West 90th Street.

New wooden guard rail erected along Edgecombe Avenue, 165th to 170th Street.

Carl Schurz Park—Excavated and laid concrete base for the erection of pipe fence.

72nd Street, Large Lake, Central Park—Was emptied and cleaned, and runway built.

Court House Plots, Centre Street—Since March 26, 1930, these plots have been maintained by the Park Department.

Allen Street Plots—Since April 4, 1930, these plots have been maintained by the Park Department.

173rd Street Tennis Court, Riverside Drive—Stone wall was rebuilt.

Highbridge Park—Flagstones were reset as required.

Carl Schurz Park—Concrete steps repaired, reset and pointed up.

100th Street Pool, Central Park—Was cleaned out.

MENAGERIE.

The following *presentations* were made during the year :

9 Green Parrots.	2 Raccoons.
2 Possums.	7 Capuchin Monkeys.
2 Rhesus Monkeys.	3 Green Monkeys.
4 Rail Quails.	1 Armadillo.
2 Macaws.	2 Malayan Tigers.
3 Parakeets.	1 Skunk.
8 Canaries.	1 Flying Squirrel.
1 Alaskan Dog.	1 Silver Fox.
6 Mallard Ducks.	1 Goat.
1 Axis Deer (Buck).	8 Snakes.
1 Blackbird.	1 Love Bird.
1 Yak (Male).	1 Red Deer (Buck).
1 Aoudad.	2 Sea Lions.
2 Harbor Seals.	1 Southdown ram.

The following is a list of *sales* during the year :

18 Ram Lambs.	4 Ewe Lambs.
3 Old Ewes.	2 Lion Cubs.
1 Lioness.	1 Female Camel.
1 Ram.	

The following is a list of *births* during the year :

2 Lion Cubs.	2 Goats.
20 Ram Lambs.	18 Ewe Lambs.
2 Bison.	

BUREAU OF ENGINEERING.

CONSTRUCTION—CONTRACT WORK.

BROADWAY PARK PLOTS: Improving the Unfinished Park Plots in the Center of Broadway, Between 142nd and 166th Streets.

The Park Plots in the center of Broadway between 135th and 168th Streets were constructed at the time the subway was built by filling in over the top of the subway, which was constructed for the most part in open cut. Due to settlements of the filling and other causes, the plots had become unsightly and of little utility.

In 1924 a sample plot, between 138th and 139th Streets, was reconstructed by substituting for the dilapidated curbstone a concrete wall surmounted by an iron picket fence and providing permanent concrete seats and laying new walk pavements. This treatment met with the hearty approval of the residents of the neighborhood and the contrast caused the rest of the plots to look worse than before.

Up to 1929 nine (9) of the plots had been reconstructed along lines like the sample plot. During the year 1930 the remaining park plots, twenty in number, were improved in the same way and the quantities and items follow:

- 3,302 Cubic Yards of Excavation.
- 9,021 Linear Feet of Concrete Curb Wall.
- 78 Corner Posts of Concrete.
- 47,161 Square Feet of Asphalt Walk on Concrete Foundation.
- 8,480 Linear Feet of Wrought Iron Fence, 3' High.
- 6,843 Linear Feet of 3' Chain Link Fence.
- 312 Concrete Benches.

CENTRAL PARK: Repairs to the "Bow Bridge."

Work was done under two contracts. It consisted of removing the cast iron plating covering the easterly and westerly girders of the bridge, including the spandrels, painting the girders with rust resisting paint, making new castings to take the place of the broken ones and recovering the girders and spandrels with the cast iron plating. Delays were caused by adverse weather conditions and the difficulty encountered by the contractors in obtaining suitable castings, but the work was completed during the year.

CENTRAL PARK: Furnishing and Setting Concrete Curbing on the Edges of the West Drive, Between 59th and 72nd Streets.

This improvement is a continuation of similar construction along the edges of the West Drive and it has been shown to be a very desirable improvement, where it has been used. Work on the contract is nearing completion. It is estimated that the final quantity will be 4,500 linear feet of cement curb.

CENTRAL PARK: Constructing New Walks.

In order to do away with the necessity of many of the paths trampled and beaten across lawns, through shrubbery and other plantations, definite walks were located, always taking care that such walks, besides serving the public, would not injure the park.

Quantities and items embraced are as follows:

- 2,222 Cubic Yards of Earth Excavation.
- 77,920 Square Feet of Asphalt Walks.

- 49 Walk Basins.
- 1,227 Linear Feet 6" Vitrified Drain Pipe.
- 52 Cubic Yards of Concrete in Step Foundation.
- 396 Linear Feet of Bluestone Steps.
- 109 Linear Feet of Bluestone Checks.
- 146 Cubic Yards of Rubble Stone Retaining Wall Masonry.
- 285 Linear Feet Spiral Spring Wire Fence.
- Removal of Wall.

CENTRAL PARK: Furnishing and Laying Pipe Sewer and Appurtenances from Tennis House to Existing Sewer North of Transverse Road 4.

During the construction of the New Tennis House in the South Meadow, Central Park, a sewer connection was installed connecting the Tennis House indirectly with the city sewer in Fifth Avenue at 100th Street. The quantities and items are as follows:

- 593 Cubic Yards of Earth Excavation.
- 71 Cubic Yards of Rock Excavation.
- 628 Linear Feet of 10" Vitrified Drain Pipe.
- 4 Manholes Built Complete.

CENTRAL PARK: Constructing a New Concrete Walk and Appurtenances Adjacent to New Tennis House in Central Park.

Suitable walk approaches to the New Tennis House were constructed during the year. The quantities and items are as follows:

- 1,057 Cubic Yards of Earth Excavation.
- 4 Walk Basins.
- 176 Linear Feet of 6" Vitrified Pipe.
- 5,891 Square Feet of Cement Walk Pavement.
- 5,696 Square Feet of Sod.

CENTRAL PARK: Furnishing and installing strainers or fish traps in the new lawn sprinkling system, where required.

After the installation of the new lawn sprinkling system, it was found that sediment and foreign material from the old park mains filled up the sprinkler nozzles. The quantities and items are as follows:

- 22 Six-inch (6") Strainers.
- 28 Four-inch (4") Strainers.
- 1 Three-inch (3") Strainer.
- 1 Two and one-half (2½") inch Strainer.
- 52 Brick Chambers.

CENTRAL PARK: Constructing a New Wall and Laying a New Pavement Around the Conservatory Lake.

For many years this Lake, which is used in the summer for the sailing of toy boats and in the winter for fancy skating, has been surrounded by a dilapidated wooden platform which was almost constantly under repair.

Under the above named contract a permanent concrete wall was built around the Lake, new steps and walks were constructed and an artificial granite ornamental balustrade was erected.

The quantities and items are as follows:

- 811 Cubic Yards of Excavation Concrete Wall and Parapet.
- 1,745 Linear Feet of Concrete Edging Granite Steps and Coping Reset.
- 547 Cubic Yards of Concrete.
- 29,664 Square Feet of Asphalt Walk.
- 1,759 Linear Feet of Cracks on floor of Lake to point.
Alterations in Discharge Outlet.
Stone Balustrade.
- 8 Cubic Yards of Concrete in Step Foundation.
- 60 Linear Feet of Bluestone Steps.

CENTRAL PARK: Repaving with Asphaltic Concrete, Roadway Pavements Where Directed.

A section of the old gravel roadway of this Park, located near the East Drive and 72nd Street, was given a permanent pavement of asphaltic concrete like that laid on the East Drive in 1920.

The quantities and items are as follows:

- 151 Cubic Yards of Excavation.
- 178 Linear Feet of Concrete Header.
- 3,558 Square Yards Wearing Surface of Asphaltic Concrete.

CENTRAL PARK: Guard Fences of Galvanized Steel Posts and Copper Covered Coiled Spring Spiral Wire Along the Edges of Certain Lawns.

In order to afford much needed protection to the lawns and plantations in the Park, the use of fences and guards was found absolutely necessary. A copper covered coiled spring spiral wire fencing of an inconspicuous type was decided upon and a contract was executed for guard fences of galvanized steel posts and copper covered coiled spring spiral wire along the edges of certain lawns.

The quantities and items are as follows:

- 51,222 Linear Feet of Fence.
- 44 Gates.

CARL SCHURZ PARK: Repairing the Damage Done, By Blasting, to the Sea Wall and Esplanade.

Heavy blasting in the bed of the East River in the vicinity of Hell Gate shook down a section of the Sea Wall and Esplanade of Carl Schurz Park. Efforts to have the damage made good by the Government Contractor proving unsuccessful, the Board of Estimate authorized this Department to

make the repairs by contract. Work on this contract was started in August of this year and is nearing completion.

It is estimated the final quantities and items will be:

- 600 Square Feet of Ashlar Wall taken up and reset.
- 200 Square Feet of Ashlar Wall repointed.
- 350 Linear Feet of Granite Coping replaced.
- 3 Granite Angles replaced.
- 350 Linear Feet of Iron Fence replaced.
- 60 Linear Feet of Concrete Edging furnished and set.
- 13,000 Square Feet of Cement Walk restored.

CITY HALL PARK: Repairing with Asphalt, Where Directed, the Walk in front of City Hall.

The walk crossing City Hall Park from Broadway to Park Row in front of City Hall was entirely repaired by contract.

The quantities and items are as follows:

- 27,222 Square Feet of Asphalt.
- 13 Cubic Yards of Concrete.

DEWITT CLINTON PARK: Installing a Wading Pool and Appurtenances complete.

A new concrete Wading Pool, 50' x 70', with two shower heads was installed in the Playground for small children in DeWitt Clinton Park.

The quantities and items are as follows:

- 165 Cubic Yards of Earth Excavation.
- 11 Cubic Yards of Rock Excavation.
- Water Supply and Drainage Complete.
- 155 Cubic Yards of Concrete.
- 6,736 Square Feet of Emulsified Asphalt Wearing Surface.
- 158 Linear Feet of 4' Chain-link Fence taken up and reset.

HIGH BRIDGE PARK: Constructing new asphalt walks with the necessary drainage and retaining wall in High Bridge Park from 184th Street North to Harlem River.

The section of this Park north of Washington Bridge has never been of much use for park purposes because of its steep slopes and the entire absence of walks or even trails that could be safely used.

During the year new asphalt walks with the necessary drainage and fencing have been constructed. These have been so laid out as to avoid steps. The quantities and items are as follows:

- 2,133 Cubic Yards of Earth Excavation.
- 384 Cubic Yards of Rock Excavation.

1,424 Cubic Yards of Borrowed Filling.
28 Catch Basins.
856 Linear Feet of 8" Vitrified Pipe.
322 Linear Feet of 12" Vitrified Pipe.
362 Cubic Yards of Dry Wall.
80 Cubic Yards of Concrete "A" (Coping and Culverts).
960 Cubic Yards of Concrete "B"
232 Linear Feet of 3' Galvanized Chain-Link Fence.
63,469 Square Feet of Asphalt Walk.

HIGH BRIDGE PARK: Furnishing and constructing an asphalt walk on a concrete foundation upon the westerly sidewalk of High Bridge Park between 168th and 172nd Streets.

The broken bluestone flag sidewalk on the westerly side of High Bridge Park between 168th and 172nd Streets was replaced by a new asphalt walk pavement.

The quantities and items are as follows:

150 Cubic Yards of Excavation.
15,610 Square Feet of New Pavement.

HIGH BRIDGE PARK: Furnishing and erecting 5' wire mesh fences and gates around lawns at Washington Bridge and Amsterdam Avenue.

As the rhododendron plantations on either side of the westerly approach to Washington Bridge, East of Amsterdam Avenue, were becoming destroyed by vandals, they were enclosed by wire mesh fences.

The quantities and items are as follows:

910 Linear Feet of 5' wire mesh fence complete.
2 Double Gates complete.

HIGH BRIDGE PARK: Improving the triangular plot located at West 155th Street and Edgecombe Avenue.

The small triangle at the Northwest corner of 155th Street and Edgecombe Avenue (a part of High Bridge Park) was improved by constructing through it a new paved walk for the accommodation of pedestrians approaching, from the North, the new subway station at 155th Street and St. Nicholas Avenue.

The quantities and items are as follows:

150 Cubic Yards of Excavation.
4,023 Square Feet of Asphalt Walk on Concrete Foundation.
338 Linear Feet of Rock Facing.
280 Linear Feet 4' Chain-Link Fence.
9 Concrete Benches.
4,000 Square Feet of Sodding.

HUDSON PARK: Resurfacing the Large Playground.

This playground, which was made by filling in with ashes and earth, the area formerly occupied by the sunken lagoon, etc., had never been properly surfaced. During the year this area was graded and covered with a layer of clay and steam cinders, producing a surface like that used in our other playgrounds.

The quantity and item are as follows:

6,659 Square Yards of Playground Resurfaced.

ISHAM PARK: Furnishing and setting, where directed, artificial Granite Benches.

Stationary permanent park benches having proven their worth elsewhere in our Parks, plans and specifications were prepared for placing some of them in Isham Park. The large type, like those erected in Riverside Drive, with three artificial granite uprights, were selected for the Broadway sidewalk of the Park and the small type, as used in the Central Park Mall, were chosen for the interior walks, and a contract was executed for furnishing and setting, where directed, artificial granite benches in Isham Park. Work on this contract is now in progress.

It is estimated the final quantities and items will be:

10 Large Artificial Granite Concrete Benches.
24 Small Artificial Granite Concrete Benches.

JASPER OVAL PLAYGROUND: Resurfacing Jasper Oval Playground.

The playground at Jasper Oval was constructed upon ground consisting chiefly of sand. After proper grading, the sand was covered with a layer of clay and cinders. After years of use the surfacing material wore away in spots allowing the sand to come through.

During the year a contract was executed for resurfacing Jasper Oval Playground. 17,691 Square Yards of resurfacing was used in this contract.

J. HOOD WRIGHT PARK: Constructing a concrete ramp at the North side of J. Hood Wright Park starting at the West side of Pinehurst Avenue and extending 115 feet West of this point.

Upon the completion of the restoration of J. Hood Wright Park where disturbed by the Contractors for the new subway, the wooden ramp, used by them for the transportation of materials into and out of the Park, was removed. This left a sheer drop of about ten feet from the street level of

the Avenue to the surface of the Park. In order to make a safe entrance to the Park at this point, it was deemed desirable to construct a concrete ramp and parapet wall. The ramp constructed was 115 feet in length and varied in height from zero to ten feet.

MADISON SQUARE PARK: Furnishing and installing additional water supply, new iron picket fences, new concrete curb and new concrete benches.

In connection with the rehabilitation and reconstruction of Madison Square Park a contract was executed for furnishing and installing additional water supply, new iron picket fences, new concrete curb and new concrete benches.

The quantities and items are as follows:

- Water supply furnished and installed complete.
- 120 Linear Feet 4-foot Iron Picket Fence.
- 101 Linear Feet 3-foot Iron Picket Fence.
- 120 Linear Feet Concrete Curb.
- 2,077 Linear Feet Bluestone Edging taken up and reset.
- 1,177 Linear Feet New Bluestone Edging.
- 2,219 Linear Feet 3-row pipe fence taken up and re-erected.
- 1,352 Linear Feet new 3-row pipe fence, furnished, erected and painted.
- 50 Stationary Park Benches, Type "A".
- 150 Stationary Park Benches, Type "B".
- 7,971 Square Feet Asphalt Walk on Concrete Foundation.
- 8,600 Linear Feet Old 3-row pipe fence painted.

MORNINGSIDE PARK: Furnishing and installing cast iron water pipes and appurtenances.

The work of restoration of Morningside Park had not proceeded far before it became clear that a large extension of the water supply system would be required to maintain the vegetation in good order. Consequently, a contract was executed for furnishing and installing cast iron water pipes and appurtenances.

The quantities and items are as follows:

- 1,123 Cubic Yards of Earth Excavation.
- 13 Cubic Yards of Rock Excavation.
- 22 Tons of Straight Cast Iron Pipe.
- 2 Tons of Special Cast Iron Pipe.
- 97 Linear Feet of 6" Cast Iron Pipe.
- 704 Linear Feet of 4" Cast Iron Pipe.
- 1,526 Linear Feet of 3" Cast Iron Pipe.
- 2 Six (6") inch Gate Valves and Brick Chambers.
- 1 Four (4") inch Gate Valve and Brick Chamber.
- 15 Three (3") inch Gate Valves and Brick Chambers.
- 15 Flush Hydrants.

RIVERSIDE PARK: REHABILITATION:

A contract was executed for repairing with asphalt and otherwise improving the walks between 96th and 122nd Streets.

The quantities and items are as follows :

344 Linear Feet of Concrete Edging.
220 Cubic Yards of Concrete in Walk Foundation.
51,860 Square Feet of Asphalt Wearing Surface.

Another contract was executed for furnishing and erecting a three-row pipe fence along certain lawns.

3,200 Linear Feet of new three-row pipe fence was erected to complete this contract.

Also a contract was executed for constructing new asphalt walk and bluestone steps, North of Soldiers' and Sailors' Monument.

The quantities and items are as follows :

100 Cubic Yards of Excavation.
105 Linear Feet Concrete Edging.
57 Cubic Yards of Rubble Step Foundation.
396 Linear Feet of Bluestone Steps.
90 Linear Feet of Bluestone Cheeks.
50 Linear Feet of Bluestone Edging.
25 Cubic Yards of Concrete in Walk Foundation.
1,750 Square Feet of Asphalt Wearing Surface.

ST. GABRIEL'S PARK : Installing a Wading Pool and Appurtenances complete.

A contract was executed for installing a wading pool and appurtenances complete in St. Gabriel's Park. Work on this contract is nearing completion.

It is estimated that the final quantities and items will be :

270 Cubic Yards of Earth Excavation.
Water Supply and Drainage Complete.
95 Cubic Yards of Concrete.
4,900 Square Feet of Emulsified Asphalt Wearing Surface.

ST. NICHOLAS PARK :

The construction of the new subway in St. Nicholas Avenue resulted in so much damage to the steps, drainage, drains, water supply and walks of the park adjacent, between 130th and 132nd Streets, that a contract for the restoration of the entrance at 131st Street was executed. Work on this contract is nearing completion.

It is estimated that the final quantities and items will be :

Resetting bluestone steps, cheeks, and rubble masonry foundation walls.
230 Cubic Yards Rubble Masonry Retaining Walls.
Furnishing and restoring manholes, drainage, water supply and appurtenances.
25 Cubic Yards Concrete in Walk Foundation.
2,000 Square Feet Asphalt Walk Wearing Surface.
260 Linear Feet Four-foot Chain-Link Fence.
900 Cubic Yards Borrowed Filling.
50 Cubic Yards Top Soil.

THOMAS JEFFERSON PARK:

The timber crib bulkhead wall on the river-front of this Park has, during several years past, been damaged from time to time by railroad floats, until repairs to same became imperative. A contract accordingly was executed for rebuilding the upper portion of the crib bulkhead, and iron fence, etc., along the waterfront, between 111th and 114th Streets. Work on this contract is nearing completion.

It is estimated that the final quantities and items will be:

- 17,400 Feet B. M. of Face Timbers.
- Taking down and re-erecting with new wire mesh fabric the existing fence along the bulkhead.
- 2,000 Square Feet of Asphalt Walk.

UNION SQUARE PARK:

The new subway construction under Union Square Park necessitated the redesign of the Park. The plan for this work provided for the removal of the Statues of Washington and Lincoln from their respective existing sites to new locations in the Park. This work was done through a contract for "Dismounting the Washington and Lincoln Monuments from their present foundations in the roadway pavement near the lower end of Union Square Park and re-erecting same on new foundations in the Park."

The quantities and items are as follows:

- Dismounting and remounting the Monuments, as specified.*
- 31 Cubic Yards of Concrete in Roadway Foundation.
- 189 Square Yards of Asphalt Wearing Surface in Roadways.

PARKS AND PARKWAYS, BOROUGH OF MANHATTAN:

A contract was executed for repairing sheet asphalt and asphaltic roadway pavements in Parks and Parkways in the Borough of Manhattan, where directed, during the year 1930.

The quantities and items are as follows:

- 308 Cubic Yards of Concrete in Foundation.
- 11,880 Square Yards of Asphalt Wearing Surface.

SWING FRAMES AND COVERINGS—4 PLAYGROUNDS:

A contract was executed for furnishing and erecting, complete, twelve pipe frames upon existing large and baby swing frames, and furnishing and attaching coverings upon erected pipe frames with an approved brand of ten ounce duck awning cloth with special wide alternating red and white stripes, in four designated playgrounds in the Borough of Manhattan.

The work was done in Hamilton Place Playground, West 59th Street Playground, DeWitt Clinton Playground and Coleman Playground.

COLUMBUS AND BATTERY PARKS: Repaving, Where Directed, With Cement Concrete, the Walk Pavements.

The entire exterior and interior walks of Columbus Park and a portion of the walks in Battery Park were repaved with cement walk pavement. The quantities and items are as follows:

94,147 Square Feet of Cement Walk Pavement.
5,127 Linear Feet of Edging Reset.

ARCHITECT'S DIVISION.

BATTERY PARK:

AQUARIUM.

Additional exhibition tanks and plumbing work incidental thereto. This work consists of two new large tanks on the Main Floor Level, and eighty new tanks for Tropical Fish on the Gallery level, greatly increasing the exhibition space.

Repairs to stucco work on the exterior of the building consisting of resetting loose coping stones and pointing up of defective stucco.

CARL SCHURZ PARK:

FIELDHOUSE.

A new Fieldhouse was erected of terra-cotta blocks and stucco, one and one-half stories high, with playroom, Directors' room and comfort station facilities for boys and girls.

GRACIE MANSION.

The installation of new water closets in the Men's and Women's Comfort Stations.

Damage to Gracie Mansion, caused by blasting in the East River, was repaired.

CENTRAL PARK:

BELVEDERE.

New weather strips were installed on the doors and windows of the Belvedere, occupied by the Weather Bureau.

GREENHOUSES.

The iron roof framing in the Showhouses of the Greenhouses was replaced with new. The rear retaining wall at the Greenhouses was repaired. As the original steam boiler in the Greenhouses, opposite East 104th Street, was inoperative, the original boiler was removed and a new boiler was installed. A new steam return line with the necessary repairs was installed.

BETHESDA FOUNTAIN.

The coping stones around the basin and all mortar joints were pointed on the Bethesda Fountain.

COMFORT STATION NEAR THE "RAMBLE."

As the steam boiler in the Comfort Station near the "Ramble" was too small, three new sections were added bringing the boiler up to capacity to sufficiently heat the building.

CENTRAL PARK CASINO.

The flagpole on the roof of the Casino was struck by lightning and was replaced with a new flagpole, halyards, etc.

TENNIS HOUSE.

A chain-link fence, ten (10') feet high, and a 2-row pipe fence, three (3') feet high, were erected around the Tennis House.

METROPOLITAN MUSEUM OF ART.

A contract was awarded for the erection of a three-story and basement extension on the East side of the Library.

The test borings necessary to determine the soil characteristics for the construction of the foundations for the new Wing "N" were made.

COLONIAL PARK:

The work of finishing the abandoned contract on the Comfort Station was executed.

COLUMBUS PARK:

The Pavilion Building was renovated including new leaders, sand-blasting exterior stonework, pointing up mortar joints, repairing keystone, and painting exterior doors and windows, sash and leaders.

CORLEARS HOOK PARK:

The eight leaders on the Pavilion Building were replaced with new copper leaders.

DEWITT CLINTON PARK:

Ten (10) new flushometer valves were installed in the Men's Comfort Station.

HAMILTON FISH PARK:

The old balustrade at the edge of the wading pool was removed and a new railing was erected.

THOMAS JEFFERSON PARK:

The steam boiler was overhauled and a new manifold installed. General repairs, consisting of a new roof, plastering, painting and heating repairs in the basement, were made to the Pavilion.

MANHATTAN SQUARE PARK:

MUSEUM OF NATURAL HISTORY.

The contract for the erection of the extension to the Corridor for Study and Storage Space between the Southeast Wing and Hall of Oceanic Life was awarded.

The contracts for African Hall, including connecting passages, plumbing, electric work and heating and ventilating, were awarded.

BRYANT PARK:

NEW YORK PUBLIC LIBRARY.

The installation of two conveyors in the Main Reading Room was done.

DRAWINGS MADE DURING 1930.

ENGINEERING BUREAU.

1. Survey of St. Gabriel's Park for Wading Pool.
2. Contract plan for constructing new asphalt walk and bluestone steps in Riverside Park, North of Soldiers' and Sailors' Monument.

3. Plan showing the Northerly end of Harlem River Driveway and the private property northerly thereof.
4. Progress Map of Fill, North of Dyckman Street.
5. Plan showing parcel at the Southeastern corner of Hudson Park to be transferred to the Borough President for the purpose of enlarging the Carmine Street Public Bath.
6. Sketch of Speedway at Dyckman Street of land to be transferred from the Dock Department to the Park Department.
7. Contract plan for constructing new walks in Central Park.
8. Contract plan for the restoration of the entrance to St. Nicholas Park, near 130th Street and St. Nicholas Avenue.
9. Contract plan for dismounting the Lincoln and Washington Monuments from their present foundations in the roadway pavements near the lower end of Union Square Park and re-erecting same on new foundations in Union Square Park.
10. Map of Union Square. (Scale 1"=20').
11. Contract plan for repaving the cement walk at the foot of the bridge stairway in City Hall Park and resetting bluestone edging.
12. Contract plan for furnishing and installing additional water supply, new iron picket fences, new concrete curb and new concrete benches in Madison Square Park.
13. Plan showing details for Dressing Enclosure to be erected in Various Playgrounds.
14. Contract plan for furnishing and installing a wading pool and appurtenances in DeWitt Clinton Park.
15. Plan showing areas of asphalt walk to be repaired in Riverside Park from 127th Street—Grant's Tomb.
16. Contract plan for repairing the damage done by blasting to the seawall and esplanade of Carl Schurz Park at East 89th Street.
17. Contract plan for furnishing and erecting complete twelve (12) pipe frames upon existing large and baby swing frames and furnishing and attaching canvas awnings upon erected pipe frames in four (4) designated Playgrounds.
18. Contract plan for rebuilding the upper portion of the crib bulkhead, fence, etc., along the waterfront of Thomas Jefferson Park between 111th and 114th Streets.

19. Erection of 18' chain-link fence, West side of Boys' Playground, in John Jay Park.
20. Plan showing flush hydrants within a radius (South, East and West) of 600' of the Central Park Casino.
21. Contract plan for installing a wading pool and appurtenances complete in St. Gabriel's Park.
22. Contract plan for constructing a playground and running track in the Easterly end of DeWitt Clinton Park.
23. Contract plan for furnishing and setting, where directed, artificial granite concrete benches in Isham Park.
24. Plan and details for erecting a double handball court in the Southeasterly end of Hudson Park.
25. Plan and details for furnishing and erecting a 7' picket fence along the Southerly and Easterly boundaries of Coleman Playground.
26. Contract plan for installing a wading pool and appurtenances complete in the 59th Street Playground.
27. Plan showing proposed treatment of Riverside Drive Mall Effect between 104th and 120th Streets.
28. Contract plan for wading pool and appurtenances complete in Chelsea Park.
29. Contract plan for furnishing and erecting a 7' picket fence and gate and an 18' chain-link fence and gates along the boundaries of Coleman Playground at Cherry, Pike and Monroe Streets.
30. Plan and details showing reconstruction of the Southerly end of Riverside Drive at 149th Street.
31. Contract plan for furnishing and setting concrete curbing on the edges of the West Drive of Central Park between 59th and 72nd Streets.
32. Map of Union Square from survey made July 1930.
33. Plan for repairing damage done by automobiles to picket and chain-link fences and concrete park benches in eight (8) completed Broadway Park Plots from 137th to 167th Streets.
34. Plan and details for erecting a double handball court in Jasper Oval.
35. Contract plan for the restoration of the lawns in Madison Square Park.
36. Contract plan for resetting curb and laying asphalt walks on the easterly and westerly sidewalks of Second Avenue between 15th and 17th Streets.

37. Contract plan for the demolition and removal of certain buildings, structures, sheds, etc., together with appurtenances attached thereto, located in Inwood Hill Park.
38. Removing present fence, furnishing, re-erecting and painting a new 4' wrought iron picket fence along the sidewalk of Cooper Square.
39. Contract plan for constructing a concrete parapet and wall at Pinehurst Avenue and J. Hood Wright Park.
40. Proposed reconstruction of entrance drive from Fifth Avenue and 79th Street to the Museum of Art in Central Park.
41. Contract plan for rock facing, where required, along the shore of the Harlem Meer, the Loch and the Pool in Central Park.
42. Contract plan for resurfacing the playgrounds in St. Gabriel's, Carmansville and St. Nicholas Parks, where directed.
43. Contract plan for laying a cement walk pavement, where directed, in the playground between 67th and 68th Streets, West of 1st Avenue.
44. New York Public Library, Front and Rear Terrace and Approaches. Tracing made from drawing supplied by the Library.
45. Plan for removing picket fence from Buffalo Paddock in Menagerie of Central Park and furnishing, erecting and painting new fence in its place.
46. Contract plan for repaving with asphalt portions of the walks in Hamilton Fish Park.
47. Contract plan for furnishing and erecting, complete, picket fences with double gates and a three-row pipe fence with double gate, around the wading pool and at entrances to Willett Street in Hamilton Fish Park.
48. Contract plan for furnishing and erecting and painting wrought iron fence at various places along the westerly sidewalk of Harlem River Driveway between 162nd and 185th Streets.
49. Contract plan for furnishing and erecting 5' wire mesh fences along the East Drive, between 85th and 97th Streets, in Central Park.
50. Contract plan for the construction of an additional sewer system and appurtenances in Manhattan Square, Borough of Manhattan.
51. Contract plan for resetting and repointing steps in Central, Colonial, Morningside and St. Nicholas Parks.

52. Plan and details for erecting a single handball court in Hudson Park.
53. Contract plan for repaving the walks, laying new concrete edging and new rubble masonry wall, all where directed, in Morningside Park.
54. Plan and details of 8' non-climbable chain-link fence and gates to be erected at the ends of Downing Street Playground.
55. Plan for repaving the cement walk pavement in City Hall Park where shown.
56. Plan for repaving the asphalt walk near the entrance at 124th Street and Fifth Avenue in Mount Morris Park, as shown upon the plan.

DRAWINGS MADE DURING 1930.

ARCHITECT'S DIVISION.

1. Fieldhouse in Carl Schurz Park, with Playroom, Directors' Room and Boys' and Girls' Comfort Stations.
2. Alteration and addition to the Pergola Building in DeWitt Clinton Park, consisting of Boys' and Girls' Locker Rooms, Showers, Toilets, Boiler Room and Farm Garden Room in the Basement, and an auditorium with stage, Coat Room, Directors' Room, and Farm Garden demonstrating room, which will be in the addition of one story.
3. Preliminary drawings were made for a new Lion House, at the Menagerie in Central Park.
4. Preliminary drawings were made for a new Boathouse at the Conservatory Lake, Central Park.
5. Fieldhouse in High Bridge Park, containing Playroom, Directors' Room and Boys' and Girls' Comfort Stations.
6. Seal House at the Menagerie, Central Park.
7. New Wolf Cages at the Menagerie, Central Park.
8. A gymnasium and comfort stations for men and women at Jasper Oval.
9. Fieldhouse in Morningside Park, containing Playroom, Directors' Room and Boys' and Girls' Comfort Stations.
10. Tool House and Incinerator Building in Madison Square Park.
11. Field Office at Riverside Drive and 80th Street, containing Drafting Room, Offices, Garage and Boiler Room. This building is to be used as a Field Office in connection with the Riverside Drive Improvement.

12. Fieldhouse in St. Nicholas Park, containing Playroom, Directors' Room and Boys' and Girls' Comfort Stations.
13. Bandstand, Pavilion and Comfort Stations for men and women in Union Square Park.
14. Fieldhouse in Thomas Jefferson Park, containing Playroom, Directors' Room and Boys' and Girls' Comfort Stations.

CONSULTING ENGINEER'S REPORT.

The general duties of the Consulting Engineer require the study and review of all contract drawings, specifications, surveys, and proposed projects affecting park areas as prepared by the Engineering Bureau of the Department of Parks and outlined directly above; supervising the actual construction as well as the engineering features of all such projects. He is frequently called upon to act as arbitrator when difficult engineering problems and situations arise either within the Department or in outside organizations whose activities concern property under the jurisdiction of the Park Department. He attends conferences as a representative of the department when the work of other city departments affects park property, with a view to co-ordinating the work of all such departments, thus eliminating duplication of design and construction, with the resultant saving of thousands of dollars to the city's taxpayers. He is consulted regarding the engineering work in connection with new park areas, created either by filling in, purchase, or donation. The West Side Improvement, which comprises the construction of the elevated express highway from West 72nd Street to St. Clair Place, elimination of grade crossings at 72nd, 79th, 96th and 158th Streets, where such crossings interfere with the proposed highway, construction of esplanades, ramps, playgrounds, recreation fields for children and adults, etc., all come under the direct supervision of the Consulting Engineer.

Filling operations and grading of Riverside Park extension, from West 72nd to 129th Streets, are practically completed. Fort Washington Park, running from 158th to 174th Streets, is also being rapidly filled in order to change its grade at various points in the park, due to the completion of the newly opened George Washington Memorial Bridge. Inwood Hill Park, from Dyckman Street to the Harlem Ship Canal, is also the scene of extensive filling operations. In all, approximately ninety acres of valuable property have been added to the city's park area through filling.

WEST SIDE IMPROVEMENT.

All the phases of this important improvement are under the direct supervision of the Consulting Engineer, from the establishment of the height to

which fill has been placed to the final approval of all plans prepared for the completion of this enormous project, which extends from the southerly edge of West 72nd Street north to St. Clair Place, a distance of about three miles, with eventual extension to Spuyten Duyvil. This work necessitated attendance at numerous conferences and meetings with the engineers of the New York Central Railroad Company to study the architectural and engineering features of the design and method for removing the company's tracks from public streets along the Hudson River waterfront and enclosing same under the elevated express highway. It also necessitated studies and plans for the elimination of grade crossings at 72nd, 79th, and 96th Streets to prevent cross traffic on the highway at these points, all of which have been fully approved by the Board of Estimate and Apportionment.

The firm of McKim, Mead & White, were retained as consulting architects in connection with City Structure No. 4 and the grade crossing elimination at West 79th and 96th Streets. This structure is a part of the West Side Improvement Elevated Speedway, which will eventually run from Canal Street to St. Clair Place. The section under consideration runs from the south side of 72nd Street to the north side of 96th Street.

Photographs of a model which they have prepared are shown on the following pages.

The architectural importance of the portion north of 72nd Street is evident, as it will form a continuous terrace upon which the city will appear to rest when seen from the river or from the New Jersey shore. Between the speedway and the river there will be the new Riverside Park containing playground, tennis courts, boat houses and yacht basins for the use of the public. This park will be approached through underpasses at intervals, giving access to ramps both vehicular and pedestrian, and staircases.

Beneath the speedway are the freight tracks of the New York Central Railway for which provisions for light and air have to be considered in the design.

It was decided to treat the facade of the highway to resemble an ancient Roman aqueduct, worked in rugged granite, the arcade broken every 100 feet by rusticated piers, to enclose the openings for the trains moving under the elevated highway, all of which would make an effective background for the eventual park treatment of this area with evergreens, trees, bushes and shrubs.

The average height of the wall is about fifty feet, and the arches are 11 feet 6 inches wide. The structure will be built of steel and reinforced concrete, with a facing of granite, the ideal material combining permanence with beauty. The speedway will be paved with granite blocks and illuminated by handsome standards.

The underpass at 74th Street leads to a belvedere with overhanging balcony from which a ramp and staircase give access to the park, with comfort stations provided beneath the structure.

At 79th Street a central ramp on the east side gives access to and from the speedway for north bound traffic, while double ramps on the west with a double underpass provide access for south bound traffic to the speedway and to the park. At this point occurs a semi-circular feature with monumental ramps giving access to the park and affording a site for a future monument which will form a necessary accent in the composition. Here at a lower level a handsome boat basin will be built, which is not shown on the model. This basin, besides affording shelter for small boats belonging to the public, will include a monumental water gate which can be used for the reception of distinguished visitors.

The treatment of the grade crossing elimination at 96th Street is similar to that at 79th Street; but the under pass is a single arch instead of a double one, the semi-circular feature is smaller, and a flagpole takes the place of the monument. Public comfort stations are provided underneath the structure.

Studies and estimates were prepared for the incorporation of a Mall in connection with the West Side Improvement, extending from 103rd to 120th Streets.

The Department of Docks was formally requested, under date of June 18, 1930, to transfer the areas under its jurisdiction at 72nd, 79th, and 96th Streets, to the Department of Parks, in order not to delay the filling and construction work at these points. In July, 1930, this same department was requested to make arrangements with the United States Naval Militia for the removal of its training ship, the U. S. S. Illinois, from its present location at the foot of West 97th Street, to a tendered site at the foot of West 102nd Street.

It was necessary to confer with the Department of Water Supply, Gas & Electricity in order to arrange for the water supply necessary for the reconstructed Riverside Park, and plans were prepared for water mains, etc., to be incorporated in the work during construction, to eliminate disturbing the work after its completion.

In March, 1930, borings were taken along the first section of the West Side Improvement, extending from West 72nd to West 79th Streets. Piers and foundations are now practically completed in this section, and it is expected to begin the erection of steel the early part of next year. It is assumed that this section of the highway will be completed within three years.

All the above work necessitated an office in the field in order to insure proper supervision of all its phases. Accordingly, an engineering field office was designed and erected in Riverside Park between 79th and 80th Streets, immediately West of Riverside Drive, and the following personnel assigned to assist the Consulting Engineer in the preparation of plans, inspection of the work of filling and grading, inspection of all materials and labor, preparation of monthly estimates, etc.:

2 Assistant Engineers.	2 Special Inspectors.
1 Topographical draftsman.	1 Stenographer and Typist.
1 Transitman (or Asst. Engr.)	1 Clerk.
3 Engineering Assistants.	2 Watchmen.
3 Engineering Inspectors.	Laborers.

(Note: A brief history of the Elimination of Grade Crossings on the West Side is attached for incorporation, if you think it will be of interest.)

OTHER ACTIVITIES:

OLD SOUTH RESERVOIR—Arrangements were made to drain and fill the old South Reservoir situated in the middle of Central Park and occupying an area of almost thirty-seven acres, which had long outlived its usefulness. Filling operations were progressing rapidly until they were suspended in June, 1930, pending the submission and approval of new plans submitted by the New York Chapter of the American Society of Landscape Architects for the development of this area. This delayed the work for almost a year, no fill being available after the plan had been adopted.

FORT TRYON PARK—Mr. John D. Rockefeller, Jr., donated to the city the area known as the Billings Estate for the purpose of improving Fort Tryon Park, which adjoins the property in question. Mr. Rockefeller appointed Olmsted Brothers, Landscape Architects, to do this work in conjunction with the Park Department. This necessitated numerous conferences not only with Olmsted Brothers, but with other city departments and contractors for the proper procedure toward developing this area.

BOARD OF TRANSPORTATION—The building program of the Board of Transportation invades Park Department property at various locations, and it was necessary to study proposed plans for such work. This included the removal and relocation of the Comfort Station in Seward Park at Essex and Hester Streets to a new location. This work was recently completed and accepted by the Department of Parks.

The new mezzanines were constructed in the Union Square Station of the Brooklyn-Manhattan Transit Company, together with new stairways and entrances, which disturbed the entire surface of Union Square Park. Plans were prepared for reconstructing this entire area and the work is now progressing rapidly.

The area adjoining St. Nicholas Park south of 136th Street and St. Nicholas Avenue was relinquished by the Board of Transportation after the completion of its work, and the disturbed section restored under the direction of the Consulting Engineer.

PORT OF NEW YORK AUTHORITY—Arrangements were made with the Port of New York Authority for creating a public park adjacent to the newly opened George Washington Memorial Bridge, between Haven Avenue and Riverside Park, extending from 176th to 178th Streets. Construction of retaining walls in this area is now in progress to provide slope for park work.

During the construction of the plaza and areas adjoining the above mentioned bridge, constant supervision was necessary to protect the property of the Park Department.

A direct connection is proposed between the above mentioned bridge and the Harlem River Speedway through Highbridge Park. The proposed plan is now being studied.

INWOOD HILL PARK—The New York Central Railroad Company is constructing a duct line through this park on the south shore of the Harlem River Ship Canal. It is necessary to constantly inspect these operations to insure proper restoration and protection of the Park.

PULITZER FOUNTAIN—To restore this fountain to its original beauty, plans and specifications have been prepared and actual restoration work will shortly commence after final approval is received from the Art Commission.

MISCELLANEOUS:

Approximately half a million cubic yards of rock are to be excavated by the Dock Department in constructing the new piers along the Hudson River waterfront. Numerous conferences have been held in order to arrange for the disposal of this large mass of material on Park Property to put it to the most advantageous use. Plans are now being prepared for the use of this fill.

The New York Central Railroad Company is regrading and reconstructing its entire right-of-way along the Hudson River to make way for the proposed elevated express highway. It is therefore necessary to constantly supervise these activities where they occur in park areas, which means practically all the way from 72nd Street north.

BRIEF HISTORY OF THE WEST SIDE IMPROVEMENT.

In the year 1846, the Hudson River Railroad Company was incorporated under the Laws of the State of New York, with power to construct a railroad between the Cities of New York and Albany.

The Act provided that the Railroad Company locate its tracks on any street or avenue of the City of New York westerly of and including Eighth Avenue or Hudson Street after approval of such location by the City. By ordinance, the City accordingly gave permission to the Railroad Company to lay its tracks on the streets and avenues substantially as they are now located, and for nearly 80 years trains have been operated by steam locomotives on the surface of some of the principal thoroughfares of the City of New York.

For many years unsuccessful efforts had been made to agree upon a plan for the removal of these tracks from the surface of the streets. The passage of the so-called "Kaufman Act" in 1923, requiring all railroads within the City of New York to discontinue steam operation and substitute electric operation therefor, brought the matter again to the front. The New York Central Railroad, realizing the impracticability of electrifying railroad tracks on the surface of the streets by either ground third rail or overhead contact rail, petitioned the Transit Commission under the General Railroad Law to order the elimination of all of its grade crossings on the West Side of the city, so that it could proceed with an electrification plan in harmony with that existing on other tracks operated by it in the territory.

The matter dragged along until July 1st, 1926, when the Mayor of the City of New York called into conference representatives of the Port Authority, The Transit Commission, The Board of Transportation, The Borough President of Manhattan, The Board of Estimate and Apportionment and the New York Central Railroad, as a result of which, an Engineering Committee was appointed to prepare a plan for the removal of the tracks of the Railroad Company from the surface of the streets on the west side of the Borough of Manhattan. The Committee was also instructed to consider proposed municipal improvements and harmonize same with the plan for the removal of the tracks.

The Engineering Committee, consisting of W. C. Lancaster, Chief Engineer, Transit Commission; Chairman J. L. Slattery, Acting Chief Engineer, Board of Transportation; A. S. Tuttle, Chief Engineer, Board of Estimate and Apportionment; C. M. Pinckney, Chief Engineer, Borough of Manhattan; Billings Wilson, Deputy Manager, Port of New York Authority; and G. W. Kittredge, Chief Engineer, later succeeded by R. E. Dougherty, Engineering Assistant to President, New York Central Railroad Company, carefully studied the entire subject and on May 13th, 1927, presented their report to the Mayor.

The plan recommended by this Committee was, after numerous public hearings before the Board of Estimate and Apportionment and the Transit Commission, adopted substantially in its original form. The plan provides for not only the elimination of grade crossings, but involved provisions for City and Railroad improvements and necessitates extensive exchanges of lands and rights between the City and the Railroad Company.

It was deemed necessary to secure additional legislation from the State in order to be able to carry out the recommended plan; accordingly, Chapter 677 of the Laws of 1928 was enacted. Under this law, the City of New York and the Railroad Company were empowered to enter into an agreement, subject to the approval of the Transit Commission, under which the necessary exchanges of lands and rights could be made and the work carried out. Pursuant thereto, an agreement dated July 2nd, 1929, was consummated between the City and the Railroad and thereafter approved by the Transit Commission, under which the removal of the tracks from the surface of the streets and the construction of certain municipal improvements will be accomplished.

The agreement provides, briefly, as follows:

"That the use of steam locomotives northerly of West 72nd Street shall cease within two years from the date of the approval of the agreement by the Commission; that operation of trains at grade upon streets and avenues southerly of 60th Street, except in the 30th Street Yard, shall cease within five years of the date of such approval; that all other work in connection with elimination of grade crossings shall be completed within six years of the date of approval of the agreement; that the Railroad Company shall, as Contractor for the City, construct various so-called 'City Structures' between 72nd Street and the northerly end of the improvement over substantially all railroad tracks in that territory."

In addition to this engineering committee the Board of Estimate and Apportionment, on May 24, 1928, appointed a committee, consisting of:

Walter R. Herrick, Commissioner of Parks, Manhattan.

Joseph H. Freedlander, Architect.

Charles N. Lowrie, Landscape Architect

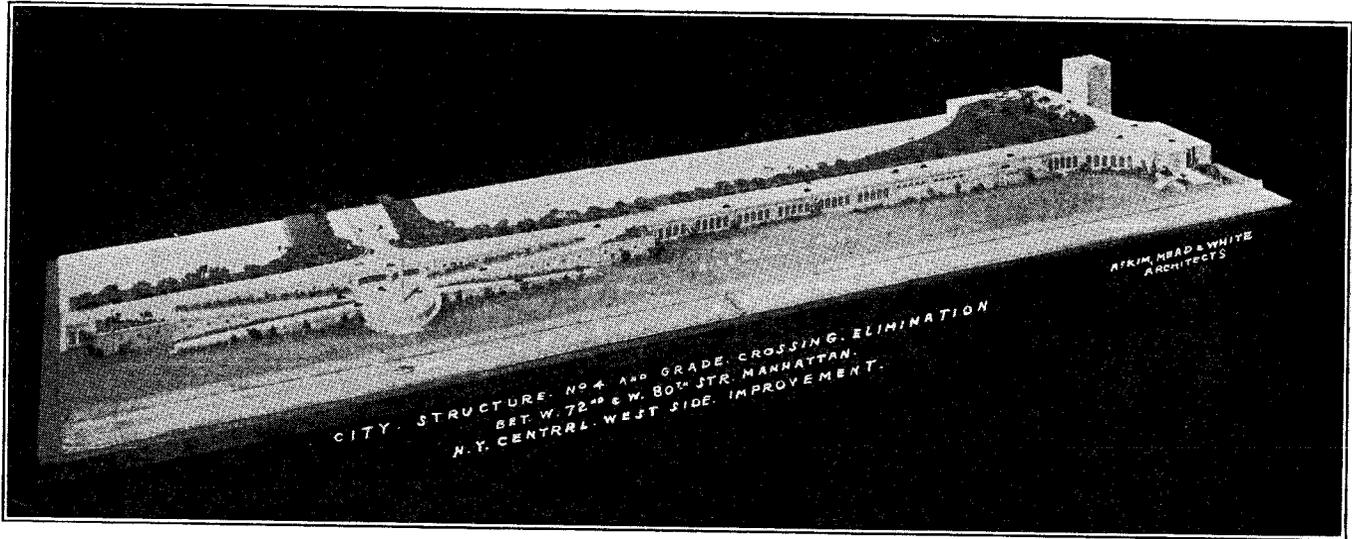
Herman W. Merkel, Landscape Architect.

Albert V. Sielke, Consulting Engineer.

to study the architectural and landscaping features of the design shown on plans for the removal of the tracks of the New York Central Railroad Company from the public streets along the Hudson River waterfront, and for related public improvements, which plans were submitted by the West Side Improvement Committee.

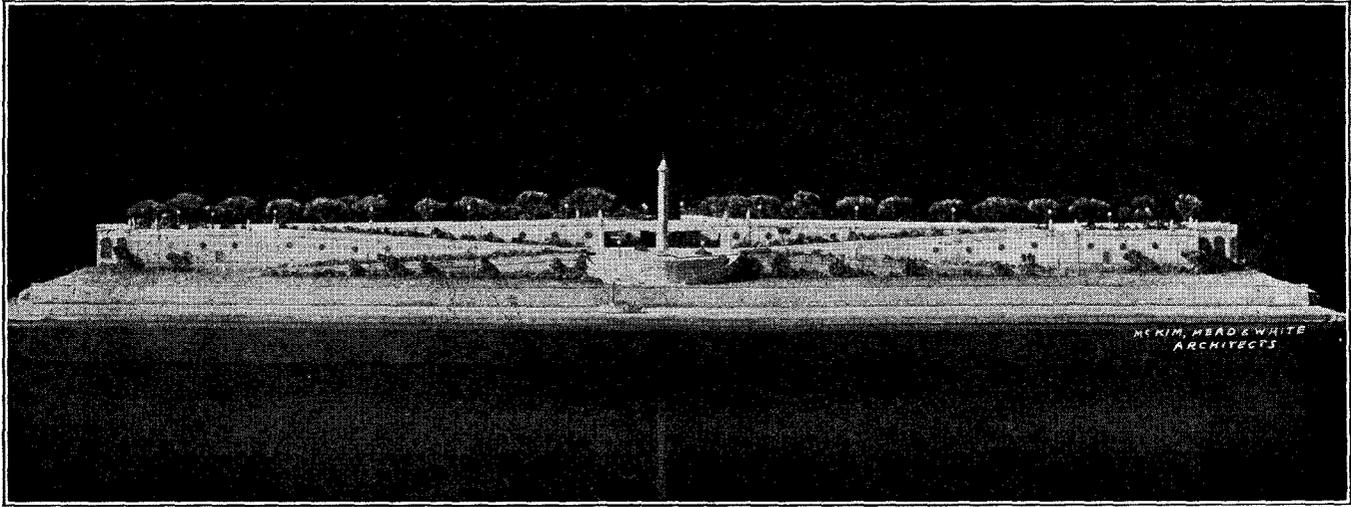
All of the City Structures will not be constructed immediately; those immediately to be built are the Express Highway and Park covering between West 59th Street and West 79th Street, and the 70th Street Viaduct across the 60th Street Yard; the agreement provides that these structures shall be completed within two years after approval of the plans and specifications by the City. Other sections of the structures will be built as and when the City is in a position to finance same. The cost of the structures between West 59th and West 79th Streets is to be paid for by the balance of money due the City by the Railroad Company covering the exchange of lands and rights, which balance amounts to a sum slightly less than six million dollars.

In general, and quoting the words of the Engineering Committee Report, "The plan provides: for a reasonable increase in railroad traffic, such as will grow out of the improved facilities which the Railroad Company can offer. The plan also provides new streets and traffic arteries through districts where additional highways are not otherwise available, and substantially removes the interference with traffic now caused by railroad occupation of public streets. It furnishse a practical means of free and uninterrupted access to considerable areas of waterfront property that can be developed for commercial or park purposes, and should stimulate an intensive development of the industrial and commercial areas south of the 60th Street Yard."

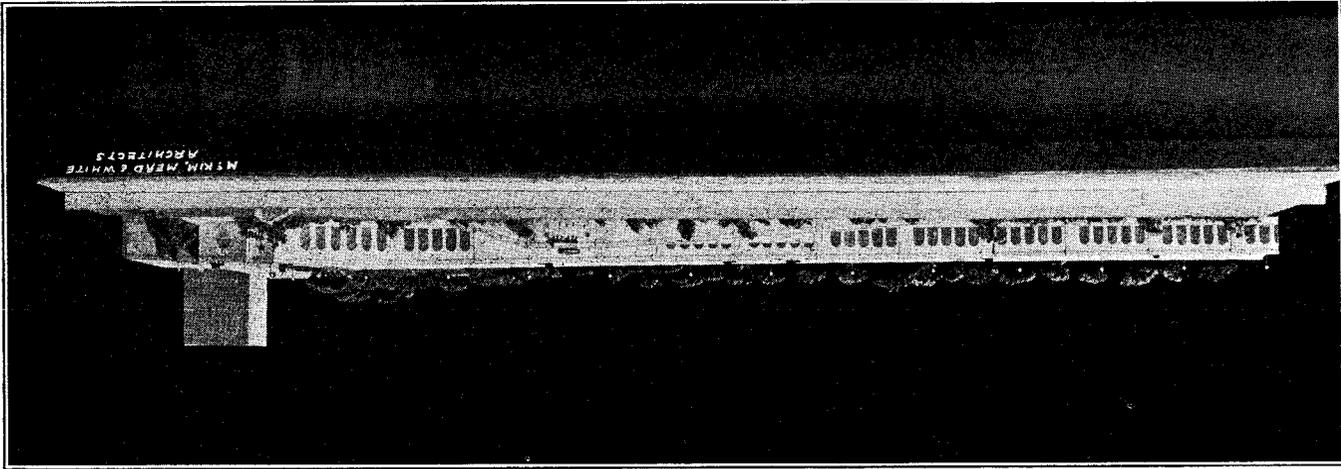


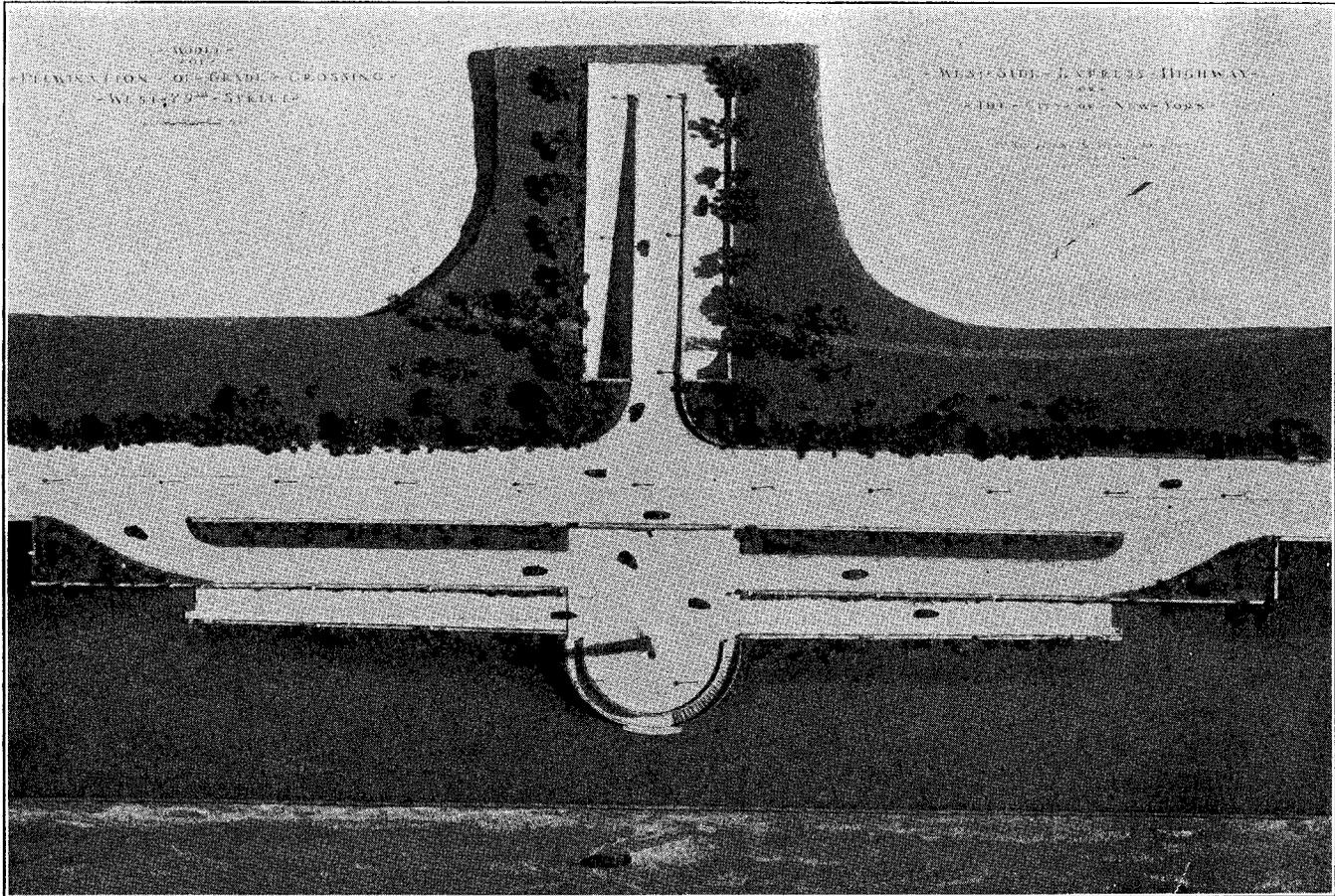
CITY STRUCTURE NO 4 AND GRADE CROSSING ELIMINATION
BET W. 72ND & W. 80TH STR. MANHATTAN.
N. Y. CENTRAL WEST SIDE IMPROVEMENT.

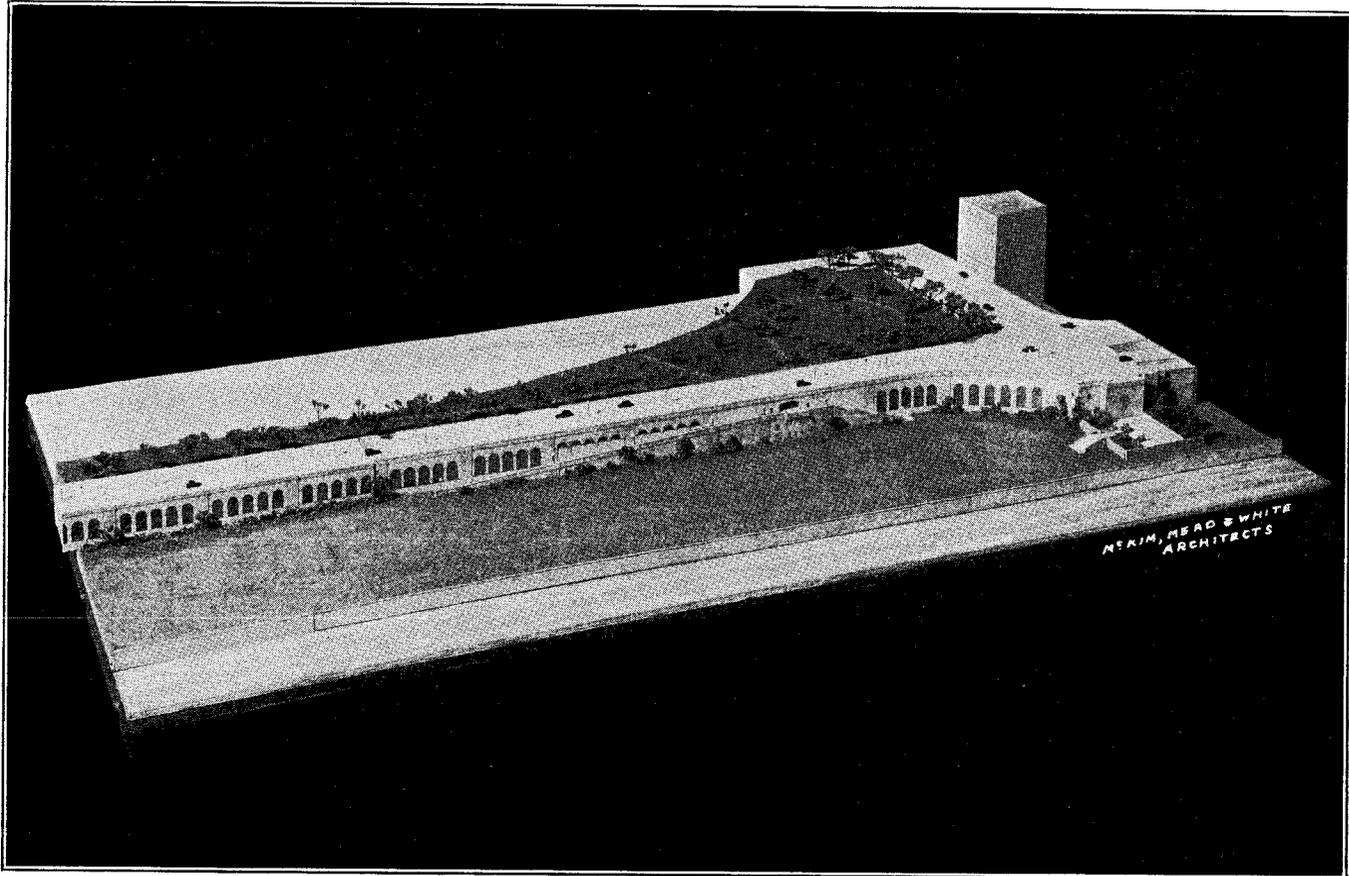
AKIM, MEAD & WHITE
ARCHITECTS



McKIM, MEAD & WHITE
ARCHITECTS







MEKIM, HEAD & WHITE
ARCHITECTS

BUREAU OF RECREATION.

PURPOSE.

The aim of the Bureau of Recreation is to transform the liabilities of child and adult leisure into assets and to build character through organized activities. Realizing that mechanical and various other inventions have brought about during the past decade considerable leisure for the adult, emphasis has been placed on a more extensive use of our facilities so that they could be used not only by the children but also by the adults.

Activities were arranged for both children and adults and it is interesting to note that during the year 1930 there were fewer street accidents to children than during the year 1929. This was partly due to the efforts of the Playground Directors to keep the children in the playgrounds under their supervision, and to accomplish this interesting activities were organized.

Character building is an important aim of the Bureau of Recreation. For the park playground, it can be said that it offers to the children of New York City the priceless gift of a place to play where they can have fresh air, sunshine and outdoor exercise, of which they are sorely in need.

Opportunity is offered to the child to mingle in an animated, stimulating, miniature society, which presents many of the situations one encounters in adult life. The playground develops the coöperator, the competitor, the rival, the leader, the follower, the friend. The game fosters loyalty to one's fellows, to one's team and to one's playground. It accustoms one to obey the captain and to work for the good of the whole rather than for one's self. It develops facility in concerted action. There is a quickening of sense perceptions, and the child not only learns to be alert, but he learns the value of alertness and inhibition.

In being required to abide by the rules of the game under circumstances which try the temper, one acquires self-control. In short, it can be said that the children of New York City are better mentally, morally and physically as a result of attending our park playgrounds.

The Bureau of Recreation has aimed to extend the use of its facilities, and permits were issued to some of the public schools to use our gymnasiums, when not in use by the general public.

Our public gymnasiums which have been conducted for a number of years as places where the young people may take part in athletic games and gymnastic work, have been made real community centers, where the young people meet and organize into groups and clubs. This work has been both recreational and educational. The idea of the organization of Mothers'

Clubs is also being impressed upon our Playground Directors, and many of them have been very successful in organizing these clubs within their respective playgrounds.

FACILITIES.

The Bureau of Recreation has under its supervision 29 park playgrounds, 9 public gymnasiums, open the year round; 18 additional summer playgrounds, 2 tennis fields—44 courts; 6 fields in Central Park for May Parties; Festivals and special activities for which permits are issued; 4 recreation piers, 16 athletic fields and 28 baseball diamonds.

ACTIVITIES AND PROGRAM OF WORK.

The activities throughout the year and the program of work includes baseball, basketball, soccer, football, tennis, handball, volley ball, swimming, skating, hockey, captain ball, punch ball, athletic meets, swimming meets, tournaments, club work, social gatherings, moving pictures, concerts, Christmas Festival, Playground Institute, local recreation conferences, celebration of July Fourth, and other holidays, excursions, boat rides, roller-skating contests, marble-shooting contests, coasting, ice skating, winter sports carnival, exhibitions by experts in sports lines, baseball league for men, coöperation with all recreational agencies, coöperation with the Mayor's Committee on Municipal Athletic Activities.

PLAYGROUND ORGANIZATION.

Assigned to the majority of park playgrounds there is a male and a female director. These playground directors supervise the activities for boys and girls respectively. During the Spring, Summer and Fall months additional temporary playground directors are assigned and more playgrounds are open. The organization within the playground has been developed along self-government lines. The children are invited to join clubs and there are such clubs as Good Citizenship Clubs, Health Clubs, Sanitary Squads, Junior Police, etc. In order to accommodate as many children as possible Intra-playground leagues and tournaments were arranged.

Boys' ACTIVITIES.

BASEBALL — INTER-PLAYGROUND TOURNAMENT AND INTRA-PLAYGROUND LEAGUE.

This League organized within each playground proved most successful and popular with the smaller boys. Each playground was represented by at least eight teams.

ATHLETICS.

Two athletic events were held each day. The children were given points and prizes were awarded to those having the highest number of points at the end of the season.

NOVELTY EVENTS.

Elephant Walk, Penny-Placing, Nose and Ear Tag, Blind Boxing, Chicken Fight, Hand Wrestling, etc.

PASSIVE RECREATION.

From the health standpoint of the child it is advisable not to have the children playing active games all day. Passive recreation in the form of quiet games, handicraft, story-telling, phonograph concerts are substituted for active games. This is most important for the weak child.

PLAYGROUND EQUIPMENT.

Gymnastic Equipment, Slides, Swings, Jungle Gym, See-Saw, Merry-go-round, Toboggan Slide, Sand Tables, Bagatelle Boards, Kindergarten Tables.

SOCCER AND ASSOCIATION FOOTBALL.

GIRLS' ACTIVITIES.

DANCING—National and Folk.

QUIET GAMES—Checkers—Dominoes—Parchesi.

STORY TELLING.

HANDICRAFT.

PLAYGROUND EQUIPMENT.

ATHLETICS.

TENNIS.

FIELD HOCKEY.

BASKETBALL.

Girls should have good lungs, a good digestion and a good heart, and interesting activities were selected which would bring results. Leadership, courage, self-reliance, good judgment and will power are aims in girls' ath-

letics as well as the athletic activities for the boys. Some of the athletic activities for the girls were: All Up Relay, Pass Ball Relay, Short Dashes, Basketball, Relay Races, Punch Ball.

PLAYGROUND EQUIPMENT FOR GIRLS.

Swings, Slides, Bagatelle Boards, Balancing Beams, Rope Skipping, Club Work.

KINDERGARTEN CHILDREN.

Free Play, Swings, Hammocks, Marchings, Quiet Games, Blocks, Scrap Books, Kindergarten Games, Singing Games, Story Period, Handiwork.

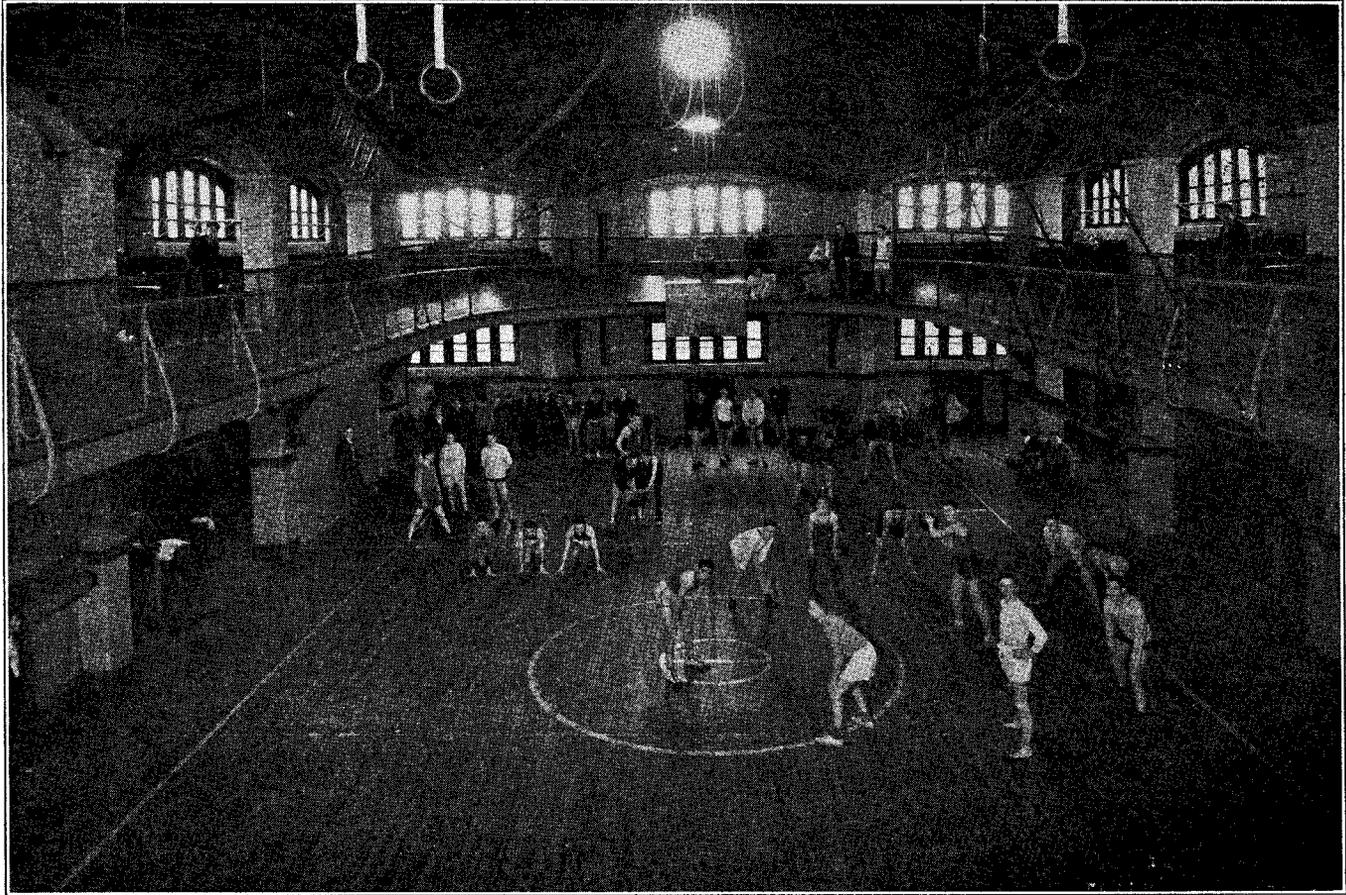
GYMNASIUM ORGANIZATION.

During the year 1930 our public gymnasiums have been used more extensively than ever before. Between the hours of 9:00 A. M. and 3:00 P. M. requests came from the principals of the various schools in the vicinity of the gymnasiums to have their pupils use our gymnasiums. Permits were issued in those cases where there was no interference with the use of the gymnasium by the general public. A more extended use of the gymnasiums occurred after 3:00 P. M. when not only the children of the public schools but those from the parochial schools made use of them. One day a week in each gymnasium is designated as girls' day when only girls are permitted to use the gymnasiums.

The activities in the gymnasiums included: Basketball, Volley Ball, Boxing, Wrestling, Track Activities, Dancing, Heavy and Light Apparatus Work, Club Meetings, etc. Emphasis was placed on informal work and although no experiment was carried out the Director believed that harmonious development could just as well be obtained through informal as formal work. Tournaments and point contests were held at different times during the year to discover the best basketball teams and the best athletes.

The public gymnasiums are located as follows:

East 54th Street near First Avenue.
West 28th Street near Ninth Avenue.
West 59th Street near Tenth Avenue.
Carmine Street near Clarkson Street.
Rutgers Place near Jefferson Street.
Cherry and Oliver Streets.
134th Street near Lenox Avenue.
Hamilton Fish—Houston and Pitt Streets.
John Jay—77th Street and East River.



EAST 54TH STREET GYMNASIUM

Between 7:00 and 10:00 P. M. basketball teams from the immediate neighborhood made great use of our gymnasiums. Leagues and tournaments were arranged and various athletic activities conducted. Clubs were organized in all the gymnasiums. It is our belief that the organization of clubs trains for good citizenship, and that the club fosters respect for authority and obedience to the rules of the game and loyalty to club and gymnasium. In fact our gymnasiums are truly community centers and places where not the young people but adults can find recreation and play. During the unemployment situation our attendance in the public gymnasiums increased.

PLAYGROUND TOURNAMENTS AND CONTESTS.

BASEBALL.

Baseball continued its popularity for boys and interest centered around the tournament that was conducted for the Park trophies. In addition to the Inter-Playground Tournament there were the Intra-Playground Leagues. Each playground organized its own baseball league and league games were held every afternoon at three o'clock. A loyal following was always found cheering their teams to victory. A Round-Robin Inter-Playground Baseball Tournament was also organized for boys 5' 2" in height.

BASKETBALL.

The most popular activity during the Fall and Winter months in our indoor gymnasium and field houses was basketball. The skill and accuracy required in basketball appeal not only to the large boy but also to the small boy. Wherever possible basketball leagues were organized within the playground and a definite schedule was posted. An inter-playground tournament was organized for boys 5' 2" in height.

HANDBALL.

Realizing the popularity of handball, additional handball courts were erected at Hudson and Chelsea Park Playgrounds. This game is becoming more popular every day. Here the emphasis is placed on intra-playground tournaments in as much as it was impossible to arrange an inter-playground tournament because many of the playgrounds were not equipped with handball courts. Whenever possible, however, the large stone pavilions in our smaller parks were used for this purpose. It is planned to erect additional handball courts at—

John Jay.
Heckscher.
Hamilton Place.
Chelsea.
Hudson.

MARBLE-SHOOTING CONTESTS.

Marble-shooting contests for which the New York World donated the prizes were conducted in all playgrounds. The final contest took place at City Hall Park and the winners: Paul Pirrone, 254 Grove Street, Brooklyn, First; Ralph Catalano, 8934 Gold Street, Ozone Park, Queens, L. I., Second; Saul Saperstein, 829 Trinity Avenue, Bronx, Third, were awarded the prizes by Hon. James J. Walker, Mayor.

TENNIS.

During the year 1930 all of the tennis courts were treated with calcium chloride to keep down the dust. The courts were kept in better condition than ever before, due to the fact that additional laborers were assigned. The tennis courts were open from 7:00 A. M. until dark. 4,727 adult permits at \$2.00 each and 328 junior permits at \$1.00 each were issued. A permit entitled the holder to play for one hour a day at any time during the tennis season. The average attendance during Saturdays, Sundays and holidays was 1,200 persons. Ten tournaments were conducted and for the first time in many years representatives were sent to the National Public Parks Championships which were held at Washington, D. C. The representatives at this tournament were Raymond Stone, Sol Kaufman, Helen Germain and Matilda Jacobs.

CENTRAL PARK TENNIS CHAMPIONSHIP.

July, August and September, 1930.

MEN—SINGLES
Raymond Stone
Sol Kaufman
Martin Dupraw

WOMEN—SINGLES
Helen Germain
Matilda Jacobs
Claire Roitman.

MEN—DOUBLES
1st—Ted Siegel, Martin Dupraw
2nd—Raymond Stone, Sol Kaufman

WOMEN—DOUBLES
1st—Helen Germain, Matilda Jacobs
2nd—Claire Roitman, Stella Roitman

ATHLETIC MEETS.

The Playground Directors were urged at conferences to hold weekly athletic meets in all park playgrounds. Points were given for first, second and third places and these were tallied at the end of the season to discover the best athletes of the playground. Some of the events of the athletic meets included—potato races, relay races, 50-yard dash, obstacle races, flag races, sack races, roller-skating contests, running broad jump, high jump, stunt contests.

MINIATURE SAIL BOAT CONTEST.

One of the most interesting and picturesque activities conducted by the Bureau of Recreation is an annual Sail Boat Contest. This contest was initiated about seven years ago and every year there is a greater interest and more contestants than on the previous year.

The very wealthy child enters his boat side by side with the poor child from the tenement district, and quite often the home-made boats win the races. There were special events for home-made boats, electric power boats, manufactured boats. The various classifications were as follows: 15" class, 25" class, 40" class, 55" class, 70" class, home-made and motorboat.

The winners were as follows:

15" CLASS.

1. Thomas Pickhart, 117 E. 80th Street.
2. Harold Walz, 3186-46th Street, Long Island City.
3. Patricia Hornwell, 1105 Park Avenue.

25" CLASS.

1. Jean Campbell, 217 West 14th Street.
2. Paul Monzio, 213 E. 115th Street.
3. J. H. Ewing, 149 E. 73rd Street.

40" CLASS.

1. Guido Eckstein, 110 E. 14th Street.
2. Jimmie Caruso, Jr., 599 W. 176th Street.

55" CLASS.

1. Douglas Baird, 122 W. 63rd Street.
2. Charles Ortenblad, 207 W. 102nd Street.
3. Edward Tesar, 338 E. 73rd Street.

70" CLASS.

1. Barney DeStefano, Jr., 1050 Stebbins Avenue, Bronx.
2. John Olsen, 326 E. 65th Street.
3. George Murtaugh, 310 W. 80th Street.

HOME-MADE BOATS.

1. Charles Gamek, 352 E. 91st Street.
2. George Bowden, 155 E. 73rd Street.
3. Robert Mack Dermeid, 224 Senator Street, Brooklyn.

MOTORBOATS.

1. Charles Schwallow, 654 Fillmore Place, West New York, N. J.
2. Richard Rost, 1447 Third Avenue.
3. Wooster Richards, 885 Park Avenue.

CANOE CHAMPIONSHIP.

The second annual Canoe Championships took place at the 72nd Street Lake, Central Park, on July 4th. 1929 witnessed the first canoe championships and in 1930 there was a larger attendance, and a greater interest was shown.

Some of the clubs which took part in the Canoe Championships were as follows: Washington Canoe Club, Island Canoe Club, Riverside Canoe Association, Yonkers Canoe Club, Philadelphia Canoe Club, Pendleton Canoe Club. Cooperation was received from the American Canoe Association. Prizes were provided by the Department of Parks.

MINIATURE AIRPLANE CONTEST.

On October 4th a Miniature Airplane Contest took place on the Sheep Meadow, Central Park, and 3,000 persons, including competitors, spectators and parents, witnessed this contest.

The winners were as follows:

TWIN PUSHER EVENT.

1. Thomas Boland.
2. Walter Calhoun.
3. John Werner.

COMMERCIAL MODEL EVENT.

1. Thomas Boland.
2. Frank Ziack.
3. Fred Velak.

SPEED EVENT.

1. Robert Meagher.
2. Hy Kessler.
3. Frank Ziack.

GLIDER EVENT.

1. Jack Harris.
2. Joseph Covell.
3. Joe Sarchiapone.

REPLICA MODEL EVENT.

1. Dante Algeri—Flying Dutchman Model.
2. Joe Battaglia—Boeing Model.
3. Henry Orzechowski.

CHILDREN'S DAY—JUNE 21, 1930.

June 21st was designated nationally as Children's Day, the idea being to focus attention on the importance of having children play in our playgrounds rather than on the streets. Cooperation was received from the various organizations. Hair ribbons were awarded to the winners of the contests for girls and cups were presented to the winners of the baseball games for the boys. The day proved a great success. A very interesting program took place at Columbus Park Playground, which follows:

Dash—30 Yards for Small Boys.
Dash—30 Yards for Small Girls.
Game—Going to Jerusalem.
Tug-of-War.
Game—Crossing the Brook.
Potato Race.
Hobble Races.
Quoit Pitching.
Folk Dancing.

JULY 4TH CELEBRATION.

Independence Day was celebrated in all of our parks and playgrounds. Athletic Meets and Band Concerts were held throughout the City. The total number competing was 40,000. Seventeen hundred officials volunteered their services and every athletic club coöperated to make the affair a success. Spirited competition featured all the meets and it can safely be said that the youngsters showed as much enthusiasm and interest in winning prizes as they did in the days of old, when the day was celebrated with dangerous fire-works and life and limb were in danger.

One thousand sets of prizes, three to a set, were offered in competition, making 3,000 individual prizes awarded for the athletes. The prizes were offered for the athletic events, folk dancing, festivals, and patriotic pageants which combined to provide the day's activities. The program of the Greater City was under the jurisdiction of the Department of Parks, Manhattan.

SECOND ANNUAL SWIMMING MEET.

With the coöperation of the Daily News a swimming meet was conducted on the Large Lake, Central Park, on July 27th. The portion of the lake which was used was sterilized and every sanitary precaution was taken before the meet was conducted. Inspections and tests of the water were made by the Health Department. Coöperation was received from the various swimming associations. The meet was sanctioned by the A. A. U.

HORSE SHOE PITCHING CONTEST.

Horse Shoe Pitching is becoming very popular and every day one can see young men pitching horse shoes at Jasper Oval, 136th Street and Convent Avenue. Considerable skill is displayed by the young men in this section of the city and an Annual Horse Shoe Pitching Contest is held for them.

JACKS CONTEST.

The Playground Directors find that the children do not like to play active games on a hot summer's day but would rather play some quiet game. Accordingly, tournaments and contests were conducted in all of the quiet games, such as checkers and jacks. A special feature was made of the Jacks Contest and considerable interest was shown by the girls of the respective playgrounds. It was amusing to note the skill that some of the girls showed in picking up the jacks.

Lydia Ramagnano, 13, 235 E. 101st Street, representing Yorkville Park Playground, won first place; Mildred Stone, 13, 2035 Aldus Steet, from Lyons Square Park Playground, Bronx, second; and Mollie Kass, 14, 2315 Douglas Street, representing Betsy Head Playground, Brooklyn, third.



“CHEATING THE HEAT WAVE”—HECKSCHER PLAYGROUND CENTRAL PARK

ROLLER-SKATING.

Roller-Skating is one of the popular Fall activities and its popularity and interest are taken advantage of by the Playground Directors, who organize roller-skating contests. An inter-playground contest is then arranged, the finals of which take place on the Mall, Central Park. The interest in the event was so great this year that approximately 3,000 spectators witnessed the final races.

The winners of these races are as follows:

JUNIOR BOYS—4 ft. 8 in.

1. John Stephen.
2. Robert O'Kane.
3. James Stever.

JUNIOR GIRLS—4 ft. 8 in.

1. Anna Barton.
2. Margaret Kent.
3. Annette Shapiro.

SENIOR GIRLS—5 ft. 3 in.

1. Catherine O'Connell.
2. Mary Zettwoch.
3. Anna Sinnott.

SENIOR BOYS—5 ft. 3 in.

1. Joseph Fronda.
2. Gerard Cunningham.

Prizes consisting of gold, silver and bronze medals were donated by the New York World for each event, and the Samuel Winslow Manufacturing Company donated roller skates to many of the winners.

Our wading pools are now being so constructed that they can be used for roller-skating during the Fall of the year. At Hamilton Fish Park the roller-skating contest took place in the wading pool proper. The wading pools are so graded that they can be used for various activities during the year.

Pushmobile and Scooter Races were also held in connection with the Roller-Skating Contests and prizes were awarded for the winners in the home-made class.

SOCCER FOOTBALL.

So great is the interest in soccer football at the present time that various leagues have been organized, not only by the Department of Parks, but by commercial organizations and shipping interests, together with the Public School Athletic League. Practically all of these games take place with the facilities of the Department of Parks and permits are issued in order to in-

sure an equitable distribution of the playing areas. The Sailors and Seamen's Institute have taken particular notice of the interest on the part of the seamen and have requested permits for many of the teams from the various ships.

The tournament conducted by the Department of Parks was an Intra-Playground Tournament, whereby the Playground Director organized his soccer league with teams within the district of his playground. The Department of Parks provided soccer balls and equipment wherever it was possible.

SILVER SKATES DERBY AND METROPOLITAN SKATING CHAMPIONSHIPS.

Partly due to the publicity given the Skating Carnivals that have taken place in the past nine years in Central Park, Ice Skating is becoming more popular every year. Unfortunately, we have very few days of skating in New York City and for this reason an effort is made to have our wading pools sprayed for ice skating when the temperature is below 25 degrees.

The Silver Skates Derby, which is conducted in coöperation with the Daily News and Middle Atlantic Skating Association, continues to hold the interest of many spectators. Approximately 18,000 persons witnessed this carnival.

The Metropolitan Outdoor Skating Championships also hold the interest of skating enthusiasts. Skaters from the metropolitan district are most anxious to win the coveted championship and medal. Coöperation is also received from the Middle Atlantic Skating Association and thousands of spectators witness the various events. Prizes are donated by Mr. Franklin Simon through the coöperation of the Fifth Avenue Association.

WINTER ACTIVITIES—INDOORS.

Various Winter activities were conducted in our public gymnasiums and a report of the same is contained in another part of this report.

SPECIAL ACTIVITIES.

One of the important functions of the Recreation Bureau, Department of Parks, is to arrange and organize special activities as part of its recreational program. These activities not only receive the interest of the participants, but also are enjoyed by many spectators.

The following are the special activities and the respective dates on which the activities were held:

Skating (Daily News Silver Skates), Conservatory Lake.....	Jan. 25th
Metropolitan Championships (Skating), Conservatory Lake.....	Feb. 8th
Inter-Gym Basketball Tournament	Feb. 13th-March 5th
Playground Directors' Conference, East 54th Street Gym.....	April 6th
Marble Shooting Tournament.....	May 12th-June 4th
Sail Boat Contest, Conservatory Lake.....	May 24th
Tennis Exhibition, Central Park.....	June 1st
Punch Ball Tournament.....	June 7th to July 4th
Twilight Baseball Tournament.....	July
July 4th Celebration.....	July 4th
Jacks Contest	July 21st to Aug. 13th
Boys' Day, Polo Grounds.....	Aug. 1st
Swimming Meet (Daily News), 72nd Street Lake.....	July 27th
Dance, Tennis Team, 129th Street Pier.....	Aug. 13th
Sidewalk Golf, Mall, Central Park.....	Aug. 11th to Aug. 27th
Inter-Playground Baseball Tournament.....	July 28th to Aug. 28th
Milk Booth, Heckscher	July 1st to Sept. 15th
Airplane Contest	Oct. 4th
Recreation Conference	Oct. 14th-16th
Roller Skating Contest	Nov. 1st
Christmas Festival, Palm Garden	Dec. 29th
Intra-Playground Soccer Tournament.....	Nov.-Dec.

RECREATIONAL PROGRAM.

ATHLETICS (Boys and Girls)

Active Games
 Gymnastic Games
 Swimming
 Skating
 Track and Field
 Boxing
 Wrestling
 Coasting
 Folk Dancing
 Aesthetic Dancing
 National Dancing

LEAGUES AND TOURNAMENTS

Baseball (small boys)
 Baseball (men)
 Basketball
 Volley Ball
 Handball
 Tennis
 Horse-shoe Pitching
 Marble Shooting
 Jacks Contests
 Soccer
 Checkers

QUIET GAMES AND ACTIVITIES

Checkers
 Dominoes
 Parchesi
 Bagatelle Board
 Story Telling
 Handicraft
 Kindergarten Activities
 Swings
 See-saws
 Slides

FESTIVALS AND SPECIAL OCCASIONS

Concerts
 Motion Pictures
 Pageants
 Exhibitions of Athletic Skill
 Festivals
 Parties
 Bazaars
 May Day on Green
 Get-together for Municipal Employees

CLUBS

Athletic
 Civic
 Camp-fire
 Community Scouts
 Dramatic
 Glee

ENTERTAINMENTS

Water Carnivals
 Ice Skating Carnivals
 Roller Skating Carnivals
 Athletic Meets
 July 4th Celebrations
 Christmas Festivals
 Baby Parades
 Safety Day Exercises

EQUIPMENT

PLAYGROUNDS—Swing, Slides, See-saws, Jungle-gym, Balancing Beams, Blocks and small units of play equipment.

GYMNASIUMS—All units of light and heavy apparatus.

PROGRAM OF ACTIVITIES FOR THE FOUR SEASONS OF THE YEAR.

SPRING—Top Spinning Contests—Outdoor Athletic Meets—Group Games—Folk Dancing—Volley Ball Tournament—May Day on the Green—Safety Day Parades—Boy Scout Activities—May Parties—Baseball—Children's Pet Shows—Arbor Day Exercises—Kite Flying Contests—Model Airplane Contests—Miniature Boat Sailing Contests—Use of units of play equipment—Bird House Building—Croquet—Field Hockey—Bowling on the Green—Roque.

SUMMER—Swimming—Wading Pool Activities—Baseball Tournaments—Tennis and Tennis Tournaments—Horseshoe Pitching Contests—Jacks Contests for girls—Checker Tournaments—Quiet Games (lottos, parchesi, dominoes, handicraft)—July 4th Celebration—Motion Pictures—Pageants—Parties—Festivals—Use of units of play equipment—Story Telling—Aesthetic and National Dances—Group Games—Concerts—Punch Ball Tournaments—Paddle Tennis Tournaments—Baby Parades—Water Carnivals—Canoe Championships—Outings and Excursions.

FALL—Wrestling—Roller Skating—Handball Tournaments—Basketball—Outdoor Basketball Tournaments—Boxing—Use of Play Equipment—Stunts—Mass Athletics—Soccer and Soccer Tournaments—Association Block Parties—Scooter, Pushmobile and Bicycle Races—Group Games—Dramatic Clubs—Glee Clubs—Apparatus Work—Field Hockey for Girls.

WINTER—Christmas Festival—Christmas Tree for Birds—Coasting—Ice Slides—Snow Fort Building—Snow Baseball—Snow Dodge Ball—Bombardments—Doll Making—Group Games involving the large muscle groups—Ice Hockey—Skiing—Get-together Parties for Municipal Employes—The Program Indoors Consists of Athletic Meets—Basketball Tournaments—Social Dancing—Debates—Use of Indoor Swimming Pools—Calisthenics and Apparatus Work—Exhibitions and Demonstrations of Gymnastic Work and Athletic Skill.

It is the duty of Playground Directors to organize as many clubs as possible. Clubs train for good citizenship, respect for authority, obedience to law and loyalty. Loyalty to club name, ritual and tradition develops the background of loyalty to City, State and Nation.

PURPOSE OF RECREATION CONFERENCE OF THE CITY OF NEW YORK.

To conduct an annual conference for recreational workers and leaders to discuss recreational matters pertaining to public playgrounds, community centers, gymnasium, recreation piers, tennis courts, etc.

To make recreational surveys and recommendations for improvements.

To keep before the administration the need for these increased facilities for play and for the improvement of the present facilities.

To interest more citizens and individuals in municipal recreation.

To raise standards of leadership through civil service requirements and to secure adequate compensation to attract and hold capable playground and recreation directors.

To plan and conduct neighborhood recreation conferences.

To assist in planning recreational programs of activity in New York City.

The Executive Committee in charge of Recreation Conference decided to hold district conferences throughout the city and the first District Conference was held at the West 134th Street Gymnasium on December 2nd. Considerable publicity was given this Conference and many persons interested in the affairs of the neighborhood attended. The improvements contemplated were discussed and a definite program was planned. Other conferences will be held throughout the City.

INSTITUTES.

Meetings were also planned with the cooperation of the National Recreation Association and these institutes took place at the West 59th Street Gymnasium. The subjects included folk dancing, toy symphonies, drama, handicraft and games.

CHILDREN'S HOLIDAY FESTIVAL.

The Children's Holiday Festival took place at Palm Garden on December 28th. Owing to the number of poor children in New York City and the fact that the Playground Directors report each year that there are many cases that are not reached by any charitable agency or settlement, the Children's Holiday Festival was planned to be held at Palm Garden on December 28th. An entertainment was given by the talented children of the respective park playgrounds.

The merchants throughout the City donated sufficient fruit, crackers and candy so that each child was well provided for.

MOTION PICTURES.

Motion Pictures may well be considered a means of education as well as recreation. It has been the desire, therefore, of the Bureau of Recreation to obtain the cooperation of the various Settlements and organizations interested in motion pictures in our smaller parks and playgrounds. No appropriation for this purpose was received from the Board of Estimate and Apportionment.

Motion Picture permits were issued to the Hudson Guild, 436 West 27th Street, The Bureau of Health Education, Department of Health, 505 Pearl Street, and the New York Edison Company (Educational Extension

Bureau), 393 Seventh Avenue, to exhibit these pictures which were shown throughout the Borough of Manhattan, and supervised by the Field Staff of this Bureau.

In many instances band concerts were scheduled in connection with the exhibitions of motion pictures and furnished wholesome and educational entertainment to thousands of spectators, young and old, throughout the summer season.

RECREATION CONFERENCE OF THE CITY OF NEW YORK.

The success of the Annual Recreation Conference which was held for the first time in 1929, depended to a certain extent on the interest that was shown at the Hotel Astor on October 14, 15 and 16.

PARK PLAYGROUNDS, GYMNASIUMS AND RECREATION PIERS. LOCATIONS—AREAS AND ATTENDANCE DURING JANUARY, JULY AUGUST, 1930.

<i>Playgrounds</i>	<i>Acreage</i>	<i>January</i>	<i>July</i>	<i>August</i>
Battery—State St. and Battery Place.....	0.850	.....	14,150	10,450
*Carl Schurz—86th St. and East River.....	0.250	3,200	13,150	11,150
*Carmansville—152nd St. and Amsterdam Ave.	0.142	10,550	26,500	39,150
*Chelsea—28th St. and 9th Ave.....	3.103	16,950	63,775	26,950
*Coleman—Cherry and Market Sts.....	0.392	7,475	17,300	14,525
*Colonial—150th St. and Bradhurst Ave.....	1.11	3,770	11,485	8,625
*Columbus—Baxter and Worth Sts.....	2.568	9,675	32,115	24,475
*Corlears Hook—Jackson St.....	0.500	5,200	11,325	14,875
*DeWitt Clinton—54th St. and 11th Ave.....	8.455	6,075	52,875	28,400
*Downing Street—Near Bleecker St.....	0.173	4,590	26,075	11,875
*East 17th Street—Near East River.....	1.037	3,085	12,900	5,975
*Hamilton Fish—Houston and Pitt Sts.....	3.160	5,800	83,250	61,950
*Hamilton Place—140th St. and Hamilton Place	0.811	6,730	34,300	19,525
*Heckscher—64th St., Central Park.....	7.	113,575	673,175	334,100
Highbridge—169th St. and Amsterdam Ave...	1.	.....	17,525	21,200
Highbridge—177th St. and Amsterdam Ave...	0.500	.....	9,050	5,375
Highbridge—189th St. and Amsterdam Ave...	0.25	.....	8,580	7,750
*Hudson—Clarkson and Hudson Sts.....	1.665	46,500	24,525	17,315
Isham—Seaman Ave. and Isham St.....	0.333	.....	9,615	6,625
Jay Hood Wright—174th St. and Ft. Washing- ington Ave.	6.600	.....	15,515	9,480
*Jasper Oval—137th St. and Convent Ave.....	4.379	.....	39,050	18,850
*John Jay—77th St. and East River.....	3.009	10,550	22,280	16,440
Market and Henry Sts.....	0.122	.....	3,370	2,750
Morningside—114th St. and Morningside Ave.	0.250	.....	14,190	9,460
Morningside—123rd St. and Morningside Ave.	0.250	.....	21,710	10,200
*Mt. Morris—120th St. and Madison Ave.....	1.10	2,085	128,100	32,000
Payson Ave. and Dyckman St.	0.6	.....	4,945	4,145
Queensboro—59th St. and East River.....	1.239	.....	34,100	14,000
*Reservoir—175th St. and Amsterdam Ave....	0.850	25,820	21,465	16,365
Riverside—75th St. and North River.....	0.2	.....	9,180	11,180

*Designates centers open the year round.

<i>Playgrounds</i>	<i>Acreage</i>	<i>January</i>	<i>July</i>	<i>August</i>
Riverside—96th St. and North River.....	1.	.....	24,050	12,450
Rutger Slip—At South St.	0.453	.....	12,260	1,685
*St. Catherine's—67th St. and First Ave.....	0.142	15,100	37,285	26,755
*St. Gabriel's—35th St. and Second Ave.....	2.294	11,460	24,225	17,525
*St. Nicholas—140th St. and St. Nicholas.....	0.250	3,810	25,495	10,350
*Seward—Canal and Jefferson Sts.....	3.301	6,085	40,120	31,225
*Thomas Jefferson—114th St. and East River..	4.120	9,915	153,650	79,525
*Tompkins Square—Avenue "A" and 10th St...	1.250	54,850	133,925	55,340
*Watergate—134th St. and Amsterdam Ave....	1.670	19,450	49,200	31,800
*West 59th Street—Near 10th Ave.....	0.579	2,355	20,340	17,540
*Yorkville—101st St. near 2nd Ave.....	0.846	11,425	33,205	16,180
Cherry and Hill—72nd St., Central Park (May Parties and special activities).....	3.	.....	6,000	2,000
East Green—72nd St. off Fifth Ave.....	5.23	.....	12,450	5,000
Sheep Meadow—66th St. off West Drive.....	21.108	.....	16,670	11,000
Gilhooley Lawn—83rd St. off Central Park West	3.3	.....	1,000	760
Circle Lawn—106th St.....	1.102	.....	700	450
North Meadow—100th St. and West Drive.....	30.459	.....	13,915	5,000

Piers

Barrow Street—East River .....	.....	.....	3,440	2,065
East 3rd St.—East River .....	.....	.....	48,400	41,930
Market St.—East River .....	.....	.....	65,655	62,840
West 129th St.—North River .....	.....	.....	9,030	6,750

Tennis Courts

93rd St.—Central Park .....	.....	.....	17,200	15,750
173rd St. and Riverside Drive .....	.....	.....	11,185	8,030

Gymnasiums

*Carmine St. ....	.....	4,140	5,800	2,790
*Cherry and Oliver St.....	.....	3,185	3,205	1,880
*East 54th St. ....	.....	5,925	8,475	4,705
*Hamilton Fish .....	.....	11,740	.....	.....
*Rutgers Place .....	.....	6,380	3,510	3,750
*West 28th St. ....	.....	6,740	2,785	1,615
*West 134th St. ....	.....	4,295	8,855	2,525
*West 59th St. ....	.....	1,075	.....	.....
*John Jay .....	.....	3,745	.....	.....

Wading Pools

Hamilton Fish .....	.....	.....	53,125	79,450
Tompkins Square .....	.....	.....	65,150	96,750
Washington Square .....	.....	.....	20,700	14,050

Total 132,990 482,930 2,493,225 1,642,195

(Approximate playground area—Borough of Manhattan—132,990 acres.)

* Designates centers open the year round.

PERMITS ISSUED DURING YEAR—1930

Baseball	3,126
Basketball	852
Football	37
Soccer	394
Tennis—\$2.00 (Adult)	4,727
Tennis—\$1.00 (Junior)	328
Sail Boat	95
May Parties and Picnics	67
Field Hockey	72
Athletic Meets (Field Days)	19
Croquet	39
Airplane	11
Recreational	66
Miscellaneous	23
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Total.....	9,856

*A charge of \$2.00 for each adult permit and \$1.00 for junior permits. All other permits free.

APPROPRIATIONS ALLOWED FOR IMPROVEMENTS—1930

HIGHBRIDGE PARK—Construction and Improvement of Playground.....	\$37,292.50
FT. WASHINGTON PARK—Construction of New Field House for Tennis Courts	23,440.00
FENCING AND OTHERWISE IMPROVING SMALL PARKS.....	25,133.97
WADING POOLS	31,290.44
DEWITT CLINTON—Running Track and Walk.....	3,124.50
MT. MORRIS PARK—Construction of Playground and Other Improvements	108,040.00
ST. NICHOLAS TERRACE (128th to 130th Streets)—Construction of New Playground	40,000.00
ST. NICHOLAS PLAYGROUND—Construction of Small Field House.....	8,000.00
JASPER OVAL—Resurfacing and Construction of New Field House.....	39,710.00
HUDSON—Resurfacing Playground, New Fences, New Handball Court and Backboard	7,101.48
THOMAS JEFFERSON—Construction of New Field House, Concrete Flooring Under Swings and New Sheds Over Swings.....	15,000.00
HAMILTON FISH—Resurfacing Playground, Concrete Under Swings.....	5,300.00
TOMPKINS SQUARE—Resurfacing Playground and Concreting Under See-Saws	3,000.00
TOMPKINS SQUARE—Enlarging Boys' Playground	30,000.00
MORNINGSIDE (123rd St.)—Construction and Equipment of Field House and Comfort Station	12,000.00
WATERGATE—General Improvement of Playground	15,000.00
AWNINGS FOR BABY SWINGS AT VARIOUS PLAYGROUNDS.....	7,000.00
WADING POOLS—Various Playgrounds	16,000.00
HANDBALL COURTS—Various Playgrounds	3,000.00

EQUIPMENT ERECTED IN 1930

Tennis Courts Central Park Tennis Courts	Slides—"Spalding"—Chutes Carmansville Columbus Hamilton Place St. Nicholas St. Catherine's
Tennis Nets Central Park Tennis Courts	
New Tennis House Central Park Tennis Courts	Basketball Standard Carl Schurz Highbridge—169th Street
Jungle-Gyms Carl Schurz Highbridge—169th Street	See-Saw Outfits Yorkville Highbridge—169th Street
Straight Slides Yorkville Columbus Highbridge—169th Street Heckscher West 59th Street DeWitt Clinton John Jay Carl Schurz	See-Saw Boards (Replacements)
Slides—"Fun-ful"—Chutes DeWitt Clinton Hamilton Place St. Catherine's West 59th Street Heckscher	Baby Swing Outfits Highbridge—169th Street
	Merry-Go-Round Heckscher
	Handball Courts Jasper Oval Hudson

TERMINOLOGY.

A set of definitions were forwarded to this Department by the City recreation Committee pertaining to recreational work. These definitions did not meet with the approval of the Executive Staff of the Recreation Bureau, and the following were adopted by the Recreation Bureau, Department of Parks:

PLAY SPACE—Any area designated for play purposes but unsupervised.

PLAYGROUND—A play space with or without apparatus or equipment and habitually used under some form of direction for children's play.

SUMMER VACATION PLAYGROUND—A play space utilized during the summer vacation period as a playground.

BACK YARD PLAYGROUND—A playground at the rear of one or more buildings.

MOTHERS' AND BABIES' PLAYGROUND—A playground designated for the use of mothers accompanied by babies and children up to the age of 6 years.

PLAY FIELD—A large open play space used for sports, games, May parties, June walks, festivals, pageants and mass athletics.

ATHLETIC FIELD—A field or play space with facilities and equipment for formal, informal, individual and mass athletics.

PLAY SCHOOL—A project conducted all day during the summer vacation in settlements, public schools or other buildings for registered groups of children of elementary school age. The program includes cultural, manual and recreational activities, lunch and rest periods, with a year-round follow-up in health and parental education.

AFTER SCHOOL ATHLETIC CENTER—A play space in a school building or yard designated for supervised athletics, folk dancing and active games for pupils after school hours.

CHILDREN'S CENTER—Any suitable place with a building and adequate play yard used for children's recreation and health work.

RECREATION PIER—The upper deck of a pier designated for recreational use by children and adults.

SCHOOL GARDEN—Also called School Farms and Children's School Gardens. A garden in a park or on school or private property, planted and cared for by children as part of their recreational and educational activities.

COMMUNITY CENTER—Any suitable place used by children and adults for educational, recreational and health work.

DENSELY POPULATED DISTRICTS FOR WHICH PLAYGROUNDS HAVE BEEN PROPOSED.

1. Catherine, Cherry, Market and Hamilton Streets between Monroe and Madison Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$380.00. Approximate land value, \$152,000.00. Approximate building value, \$240,000.00. Total, \$392,000.00 (land and building value).

2. Madison and Monroe Streets, from Rutgers to Clinton Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$760.00. Approximate land value, \$304,000.00. Approximate building value, \$280,000.00. Total, \$584,000.00 (land and building value).

3. Montgomery, Gouverneur, Scammel, from Madison to Monroe Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$520.00. Approximate land value, \$208,000.00. Approximate building value, \$100,000.00. Total, \$308,000.00 (land and building value.)

4. Hester, Broome, Eldridge and Allen Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$1,200.00. Approximate land value, \$480,000.00. Approximate building value, \$400,000.00. Total, \$880,000.00 (land and building value).

5. Broome, Hester, Mott and Elizabeth Streets between Grand and Broome Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$680.00. Approximate land value, \$270,000.00. Approximate building value, \$240,000.00. Total, \$510,000.00 (land and building value).

6. Sullivan and Thompson Streets, between Prince and Spring Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$800.00. Approximate land value, \$320,000.00. Approximate building value, \$300,000.00. Total, \$620,000.00 (land and building value).

7. Orchard from East 2nd Street. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$760.00. Approximate land value, \$304,000.00. Approximate building value, \$250,000.00. Total \$554,000.00 (land and building value).

8. Mott and Elizabeth Streets between Prince and East Houston Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$640.00.

9. Suffolk and Norfolk Streets, between Rivington and East Houston Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$1,200.00. Approximate land value, \$480,000.00. Approximate building value, \$280,000.00. Total, \$760,000.00 (land and building value).

10. Columbia, Cannon and Lewis Streets, between Rivington and East Houston Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$320.00. Approximate land value, \$128,000.00. Approximate building value, \$200,000.00. Total, \$328,000.00.

11. Avenue B and C, from East 5th Street to East 6th Street. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$540.00. Approximate land value, \$216,000.00. Approximate building value, \$250,000.00. Total \$466,000.00.

12. Jones, Bleeker and Cornelia Streets, from Carmine to Commerce Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$720.00. Approximate land value, \$144,000.00. Approximate building value, \$240,000.00. Total, \$384,000.00 (land and building value).

13. East 45th Street to East 49th Street, from 1st to 3rd Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$1,500.00. Approximate land value, \$600,000.00. Approximate building value, \$300,000.00. Total, \$900,000.00.

14. West 45th Street to West 49th Street, 9th to 10th Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$800.00. Approximate land value, \$320,000.00. Approximate building value, \$400,000.00. Total, \$720,000.00 (land and building value).

15. West 64th Street to West 68th Street, 10th to 11th Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot \$900.00. Approximate land value, \$360,000.00. Approximate building value, \$350,000.00. Total \$710,000.00.

16. East 81st to East 84th Streets, 1st to 3rd Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$750.00. Approximate land value \$300,000.00. Approximate building value, \$300,000.00. Total, \$600,000.00 (land and building value).

17. East 88th to East 92nd Streets, 2nd and 3rd Avenues. Acreage 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$680.00. Approximate land value, \$272,000.00. Approximate building value, \$300,000.00. Total, \$572,000.00 (land and building value).

18. East 104th to 108 Streets, from 3rd to Madison Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$500.00. Approximate land value, \$200,000.00. Approximate building value, \$250,000.00. Total, \$450,000.00.

19. East 107th to 110th Street, 2nd and 3rd Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$300.00. Approximate land value, \$120,000.00. Approximate building value, \$180,000.00. Total, \$300,000.00.

20. East 112th to 115th Streets, 2nd Avenue to Lexington Avenue. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$480.00. Approximate land value, \$192,000.00. Approximate building value, \$200,000.00. Total, \$392,000.00.

21. East 115th to 118th Streets, Lexington to Fifth Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$520.00. Approximate land value, \$208,000.00. Approximate building value, \$275,000.00. Total, \$483,000.00.

22. East 119th Street to 124th Street, 1st to 3rd Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$400.00. Approximate land value, \$160,000.00. Approximate building value, \$250,000.00. Total, \$410,000.00 (land and building value).

23. East 133rd to 141st Streets, 5th, Lenox and 7th Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$440.00. Approximate land value, \$176,000.00. Approximate building value, \$400,000.00. Total, \$496,000.00.

24. Dyckman Street, Nagel, Vermilyea, Post and Emerson Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$240.00. Approximate land value, \$96,000.00. Approximate building value, \$400,000.00. Total, \$496,000.00.

25. East 25th Street to East 35th Street, 1st to 3rd Avenues. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$240.00. Approximate land value, \$96,000.00. Approximate building value, \$400,000.00. Total, \$496,000.00.

26. Washington Street from Morris to Albany Streets. Acreage, 200 ft. x 200 ft. Improved. Assessed valuation per front foot, \$1,600.00. Ap-

proximate land value, \$640,000.00. Approximate building value, \$300,000.00. Total, \$940,000.00 (land and building value).

RECOMMENDATIONS.

1. It is recommended that additional park playgrounds be provided in the Borough of Manhattan, wherever available, in suitable localities, as previously mentioned in this report.

2. This Department advocates the adoption of the program for the extension of parks and parkways as advanced by the Park Commissioners of the five Boroughs of Greater New York at the Metropolitan Conference on Parks. Both Ward's and Randall's Islands would fulfill a park and recreational need for the people of Manhattan and Bronx and the acquisition of the same would be most valuable for many reasons. It would be necessary, of course, for the City or State to provide for the removal of the inmates and patients of the various City and State Institutions on these Islands.

3. That in the event that any additional commercial piers are constructed by the Department of Docks, provision be made on the upper deck or on a special floor for a public gymnasium and a playground for the young people of the neighborhood.

4. That additional tennis courts be provided in Fort Washington Park. This will be necessary, since the new Interstate Bridge, when constructed, will take away six of our tennis courts. There is sufficient area in this location for the construction of additional courts.

5. All of our playgrounds should have some type of wading pool. Where there is not adequate playing space, showers in the area about 24 feet in diameter would provide a makeshift wading pool. For many reasons it is far more desirable to have showers in our playgrounds and parks, than in our city streets.

6. Shade is a very important consideration in the park playgrounds where there are not a sufficient number of trees. Awnings should be placed over all swing frames wherever possible. During the year 1930 at least two playgrounds will be equipped with awnings over all swing structures.

7. Practically all of the Playground Directors of the Recreation Bureau (permanently employed) have been in the city service for the past fifteen years and have rendered excellent service. They have only received two general increases during that period, of small amounts. These Playground Directors are well educated and trained, and should receive the maximum salary as scheduled by the Park Board, namely, \$2,150. per annum. Had these people left the playground system and entered the Board of Education, which they

could have done many years ago, they would now be receiving a salary of at least \$3,000. Playground Directors recently assigned realize this fact and do not intend to make this their life work. It is only by giving the Playground Director an adequate salary that good work can be obtained and good Playground Directors kept in the service.

At the National Recreation Conference at Atlantic City the following resolution was proposed by Mr. James V. Mulholland, regarding the salaries and standards for Playground Directors:

"WHEREAS, the playground director should possess qualifications as high or higher than the teachers of health and physical education, and

"WHEREAS, the work of the playground directors is as important as the acquisition of new playgrounds in bringing about fewer accidents, less juvenile delinquency, better children and better parents, and

"WHEREAS, ideal playground directors cannot be obtained without adequate compensation, therefore,

"BE IT RESOLVED, that the National Recreation Association approve the equalization of salaries of playground directors with those of health and physical education teachers, and that this association approve the raising of standards for playground directors to that of health and physical education directors; and

"BE IT FURTHER RESOLVED, that this important subject be called to the attention of all municipal authorities by the National Recreation Association."

8. Resurfacing—The Bureau of Recreation received an appropriation for resurfacing the following playgrounds during 1930:

Chelsea
Fort Washington Park (Tennis)
Jasper Oval
Hudson
Hamilton Fish
Tompkins Square

A request to resurface the other playgrounds will be made when the next budget is submitted.

9. Outdoor Swimming Pools—An outdoor swimming pool could be located to advantage at Fort Washington Park and also at the Reservoir, 175th Street and Amsterdam Avenue. It is possible that this property (Reservoir) will be turned over to this Department if a request were made and funds appropriated for developing the same.

10. Additional Playground Directors—A study of the attendance records of the Bureau of Recreation, Department of Parks, will bring out the

fact that our Playground Directors are supervising, directing and teaching games and play activities to at least 250 children per day. This is entirely too large a number for any one person to take charge of. Wherever the attendance warrants the same additional Playground Directors should be assigned.

In addition to the present force this Department should have under its supervision 30 employees more per annum, 24 female, and 6 males more. If we do not have adequate supervision there is always a danger of serious accidents in the playgrounds.

11. Milk Booths—An experiment was made at Heckscher Playground, Central Park, where 51,381 glasses of milk were sold. There was a deficit of \$516.10, and this item was paid by Mr. August Heckscher.

12. Prizes—There is nothing that stimulates interest and enthusiasm in playground activities like the winning of a prize. This Department receives no appropriation for the purpose of providing prizes for the winners of our respective tournaments, and it is necessary for us to communicate with philanthropists and newspapers in order to obtain them. This method does not always prove satisfactory, and it would be a much better plan to have an appropriation provided for this purpose, to purchase medals and prizes for the winners of all tournaments and contests.

13. Band Concerts—Band concerts on the Market Street Pier proved very satisfactory. In connection with them, dances were given in coöperation with the neighborhood agencies and these proved very satisfactory. It is recommended that a larger appropriation for band concerts be obtained for the smaller parks and recreation piers.

14. Camp—Bear Mountain—For the past four years this Department has requested an appropriation for the operation of a camp at Bear Mountain. No appropriation has as yet been received. This camp should be operated and controlled by the Department of Parks. Supervision would be provided and the camp run on a cost basis. Each child would only have to pay the amount necessary for food and transportation, which would cost between \$4.00 and \$5.00 per week.

The Westchester County Park Commission has been conducting camps for the past seven years and municipal camps have been conducted in 84 cities of the United States.

15. Additional Pubic Gymnasiums—So great is the demand for the use of our public gymnasiums, not only by the general public but also by the boys and girls of the public and parochial schools, that we are unable to comply with all requests. It is most advisable to request an appropriation for additional public gymnasiums. These could be erected in the following localities :

126th to 135th Streets and Amsterdam Avenue.
150th to 175th Streets and Amsterdam Avenue.
88th to 110th Streets, East Side.

The public gymnasium which is under the jurisdiction of the Department of Parks at Houston and Pitt Streets (Hamilton Fish) is constantly under repair. It was erected almost 30 years ago. It would be advisable to tear down this old structure and erect a modern gymnasium with swimming pool and showers combined. The cost of this would be approximately \$85,000. This locality is quite congested and we are unable properly to conduct our recreational activities in the existing building.

At the West 59th Street Gymnasium it would be advisable to enlarge the same and raise the roof of the building. At the present time the ceiling is only twelve feet high.

Thomas Jefferson Park is in a thickly congested neighborhood and the Alderman of this District made an appeal for a gymnasium and swimming pool to be erected in the vicinity of Thomas Jefferson Park.

16. Field Houses—It is advisable to erect some sort of shelter or field house in playgrounds where the same has not been provided. Every year it is necessary for the Playground Directors to endeavor to obtain coöperation from some Settlement or other agency in the neighborhood in order that they may change into their playground uniform.

17. Office Force—It is necessary for the proper administration of the Bureau of Recreation to assign two Playground Directors to the office. These Playground Directors are assigned for the issuance of recreational permits, to check up on work orders, field staff reports, attendance records, attendance, activities, semi-monthly time sheets, answering telephones and other general office routine.

It would be much more advisable to have two clerks assigned to the Bureau of Recreation so that these Playground Directors could be assigned for duty in the playgrounds.

18. Lighting of Playgrounds at Night.—All large play areas should be brilliantly lighted at night and used for adult recreation. The tennis courts in Central Park should also be lighted at night, thus affording a maximum use of all recreational facilities.

19. Laborers—Under the present system there are assigned to the Bureau of Recreation 11 laborers to keep the respective gymnasiums in a clean and sanitary condition. For the past two summers the laborers at the tennis courts have been under the jurisdiction of the Bureau of Recreation; on the other hand, in the playgrounds and athletic fields the laborers are

under the jurisdiction of the foremen and the Bureau of Maintenance. It is within the authority of the park foremen to assign the laborers to park and playground work, and he may decide that the park walks and lawns are of greater importance than keeping the playgrounds clean, and consequently assign the laborers to do very little work as far as the playground and athletic fields are concerned.

It is then necessary for the Bureau of Recreation to register a complaint with the Maintenance Bureau, and when the complaint in turn is forwarded to the park foreman he has not a very kindly feeling toward the Recreation Bureau or the Playground Directors. I believe that it would be a much better system if there was not this dual control—and if one laborer was assigned to each of the playgrounds to take care of the play areas. The playgrounds and athletic fields are sufficiently large to require the services of one laborer eight hours a day. It is also very advisable to assign a sufficient number of mechanics to the Recreation Bureau to take care of the repairs to playground equipment in order to avoid the possibility of accidents.

ADMINISTRATION

SUPERVISOR OF RECREATION

1

ASSISTANT SUPERVISOR—Male	ASSISTANT SUPERVISOR—Female
1	1
FIELD STAFF—Male	FIELD STAFF—Female
3	2
PLAYGROUND DIRECTORS—Male	PLAYGROUND DIRECTORS—Female
30	29
Temporary—Summer Season	Temporary—Summer Season
PLAYGROUND DIRECTORS—Male	PLAYGROUND DIRECTORS—Female
60	66

FINANCIAL STATEMENT

Salaries—Permanent Force	\$104,060.00
Salaries—Temporary Force	41,260.00
Recreational Equipment	10,000.00
Recreational Supplies	500.00
Medical and Surgical Supplies	125.00
Total Appropriation	<u>\$155,945.00</u>

BUREAU OF CHILDREN'S SCHOOL FARMS.

FOREWORD.

It is quite probable that few readers of this report realize that the Department of Parks of Manhattan numbers among its many public recreation facilities, a Bureau of Children's Farm Gardens where children plant and harvest crops embracing everything, from soup greens to peanuts.

To those who live or have lived in the suburbs, or country, a garden of growing things in the midst of a great city would perhaps be only a matter of passing interest, but to the children of the congested areas of our city the neighborhood farm garden in most cases is their only chance to plant a seed, or grow a flower, or observe the wonderful workings of nature which, when properly interpreted, would read like a fairy tale.

There are six School Gardens in the Borough of Manhattan. These are divided into little plots 4 feet by 8 feet, one for each child. The largest is at Thomas Jefferson Park, comprising about two acres, the smallest is at Chelsea Park being a little larger than a city lot. Four are on the east side and two are on the west side of the city.

Off hand, it would seem to be an impossible task to take children whose conception of where vegetables come from is the corner grocery, or vegetable stand, and begin to prepare the ground and plant the seeds for a successful garden within a few days of a garden opening.

All the garden work is done by the children. This work includes the preparation of the soil in the spring, spading, raking, planting, cultivating, until the harvest in the fall.

Many practical lessons are taught in addition to the study of plants and insects. A lesson in responsibility is taught, when a child applies for a garden plot. A tag is given with a number corresponding to a number on a garden and if this tag is lost, the plot is lost.

Lessons in health are shown by covering plants for a few days to keep off the sun and air. The children's attention is then drawn to the yellow, wilted and sick condition of the covered plants, and the fact is impressed that similar ill health will follow to ourselves if air and sunshine are withheld.

Experiments are shown with flies and mosquitoes, the condition and medium under which they thrive, the dangers incurred and the proper way to remove and combat these enemies.

One would hardly believe that in one of our gardens during the season of 1930, 56 distinct species of insects were caught by the children. The

insect friends and enemies of the farmer are shown in mounted specimens, together with the means and methods used for their control.

Carefulness is taught by the orderly manner in which the tools are kept in the little tool houses attached to each garden. They are cleaned after each day's use and oiled and repaired during the winter months.

In addition to the vegetables and flowers grown in the children's plots, a great number of economic plants are grown for observation and study.

These include cotton, peanuts, hemp, wheat, rye, sweet potatoes, flax, broom corn, etc. On these plots, the seed, the growing plant, and the finished products of each specimen are shown.

These practical lessons are of immeasurable value to growing children in addition to a source of interest to the entire neighborhood.

Who would not be interested in a plot of broom corn which shows the seed which is used in medicine, the growing plant with its broom tops, the finished broom made from these tops, and the fact the Levi Dickerson made the first corn broom in Hadley, Conn., in 1788?

In concluding, it is but fitting to mention the harvest at the various School Farms. Harvest time sends a thrill through the little hearts and the neighborhood as well.

Here again a little of life is experienced, for "as ye sow, so shall ye reap."

The diligent little farmers need help from the family to carry home the crop raised on their little farms. We have estimated the return for a well cultivated plot to be worth, at the prevailing market prices, a little over \$5.00.

In conjunction with the harvest, a harvest festival is held. The children donate corn and pop corn from their plots, which is cooked and eaten in the open, the gardens are decorated with corn stalks and flags, improvised benches and tables are set up, poems and songs relative to gardens and flowers are rendered, and in the old fashioned way, a time, long to be remembered, is had by all.

BUREAU OF CHILDREN'S SCHOOL FARMS

<i>Name of Garden</i>	<i>Established</i>	<i>Area</i>	<i>Location</i>
DeWitt Clinton	1902	$\frac{3}{4}$ acre	52-54th Sts., 12th Ave.
Corlear's Hook	1913	$\frac{3}{4}$ acre	Jackson and Cherry Sts.
Thomas Jefferson	1911	2 acres	111-114th Sts., East River
Seward Park	1927	$\frac{1}{8}$ acre	Canal and Jefferson Sts.
Chelsea Park	1928	$\frac{1}{16}$ acre	28th St., 9th Ave.
Tompkins Square Park.....	1929	$\frac{1}{10}$ acre	East 8th St. and Ave. A.
TOTAL ATTENDANCE OF CHILDREN, JANUARY 1 TO DECEMBER 31, 1930.....			176,272
COST OF MAINTENANCE OF THE BUREAU OF SCHOOL FARMS.....			\$14,540



HALLOWE'EN FESTIVAL
THOMAS JEFFERSON SCHOOL FARM
THOMAS JEFFERSON PARK, EAST 114TH STREET AND EAST RIVER

NUMBER OF EMPLOYEES.

- 1 Head Attendant in Charge of Bureau.
- 5 Per Annum Attendants, one in charge of each garden.
- 12 Temporary Attendants for six months period.

Crops produced during 1930:

Radishes	28,000 Bunches	Corn	5,000 Ears
Celery	3,000 Stalks	Swiss Chard	12,600 Stalks
Onions	5,000 Bunches	Beans	220 Quarts
Lettuce	19,000 Heads	Beets	17,000 Bunches
Carrots	25,000 Bunches		

ADDITIONAL GARDEN DURING 1930.

A new garden was opened in Tompkins Square Park April 29, 1930.

It is quite small, considering the congested area in which Tompkins Square Park is located. This difficulty was overcome by assigning groups of children to plots. To give a personal interest to this form of intensive gardening, each child was allowed to plant two or three seeds of radishes and at the harvest time, the crop was divided into pro rata shares. This method, in a way, was successful in handling the large group of applicants. This garden required the services of one attendant after the preliminary work was completed, and had an attendance of 13,312 children.

DETAILED REPORT OF THOMAS JEFFERSON SCHOOL FARM.

Total Plot Attendance of all classes for 1930.....		58,467
Neighborhood Children	12,850	
Open Air	8,224	
Kindergarten	5,654	
Ungraded	1,225	
P. S. 102	4,914	
P. S. 78	9,164	
P. S. 57	4,828	
Nature Study	9,292	
Pier Classes	969	
Federation Classes	671	
Observation Classes	676	
Individual Gardens	1,000	4x8'
Open Air Classes (2)	75	Children

The School Farm at Thomas Jefferson Park is located at Pleasant Avenue and East 111th Street adjoining the river, with a pleasant view of Ward's Island and the Bridge. It covers an area of more than two acres, with flower beds, a small cottage tool house and barn. In addition, there is a long building with many windows. This building is used throughout the entire year by the Board of Education for Open Air Classes.

Two classes of anaemic children, with teachers detailed, occupy this building. All nature and physical training periods are taken in the garden, and the improvement both physically and mentally, has been marked, under this helpful, open-air environment with a garden, practically as a class room.

This garden has more than 1,000 individual plots 4 x 8 feet. The children attending it, are mostly of Italian extraction. It was planted for its spring crop the last week of May and the second or main planting was completed June 19th. The crops from both plantings were abundant, as the following enumeration will show. The entire garden was fertilized during the fall with 25 truck loads of manure.

Unemployment men started work in the garden, November 11th, 1930. Six men on duty, Monday, Tuesday and Wednesday; six men on duty, Thursday, Friday and Saturday. Total 12 men.

VEGETABLES PRODUCED FROM 900 CHILDREN'S PLOTS.

Radishes	13,900 bunches
Beets	9,100 bunches
Swiss Chard	6,150 plants
Corn	500 ears
Lettuce	8,500 heads
Carrots	12,000 bunches
Onions	2,500 bunches
Celery	1,250 stalks
Beans	110 quarts

CROPS PRODUCED FROM 57 OBSERVATION PLOTS.

Celery	90 stalks
Parsley	60 bunches
Kale	90 plants
Squash	4
Cabbage	30 heads
Broom Corn	48 plants
Kaffir Corn	96 plants
Sorghum Corn	72 plants
Flax	120 plants
Peanuts	20 plants
Cotton	160 plants
Tobacco	32 plants
Indian Corn	80 plants
Vetch	4 pounds
Alfalfa	18 pounds
Wheat	1 pound
Rye	1 pound
Barley	1 pound
Millet	2 pounds
Okra	1 quart
Pumpkins	9
New Zealand Spinach	30 quarts
Castor Oil	15 plants
Parsnips	30 plants
Sugar Beets	30 plants
Egg Plants	30 plants
Peppers	30 plants
Sweet Potatoes	3 quarts

VISITORS.

The Columbia University in its itinerary, suggested a visit to Thomas Jefferson School Farm and a delegation of students availed themselves of this offer.

IMPROVEMENTS AND REPAIRS DURING 1930 AT THOMAS JEFFERSON SCHOOL FARM.

Fire pot put in Cottage Stove.

Received 7 yards of Grit for Garden Paths.

New Hot Water Heater installed in Cottage.

227 shrubs and flowering plants were added to the specimen groups at Thomas Jefferson School Farm.

The 3,200 feet of large hedge which encloses the paths at School Farms, is being cut down to 18 inches. Seven men, from the Unemployment Bureau, were assigned to the work, under the supervision of a gardener. This work is progressing favorably, as we pass into 1931.

EXHIBITIONS.

This Bureau, with its four exhibits, won four prizes at the Third Annual Children's Fair, held at the Museum of Natural History December 4 to 10, 1930.

Group II	0	Tree Planting Right Way and Wrong Way.....	First Prize
Group IV	0	Conservation of Park and Roadside.....	First Prize
Group VI	0	History of a Loaf of Bread.....	Second Prize
Group VII	0	Seven Good House Plants	Second Prize

DETAILED REPORT OF DEWITT CLINTON SCHOOL FARM.

Total Plot Attendance of all classes for 1930.....		54,622
Neighborhood Children	11,482	
Kindergarten	10,247	
P. S. No. 51	11,478	
P. S. No. 58	5,325	
P. S. No. 141	2,690	
Industrial School No. 2	3,465	
St. Ambrose	1,560	
Sacred Heart	760	
Ethical Culture	640	
Visiting Nature Study Classes	6,975	
Individual Gardens	412	4x8'



HARVEST—1930
DE WITT CLINTON SCHOOL FARM
DE WITT CLINTON PARK, 54TH STREET AND 12TH AVENUE

DeWitt Clinton School Farm is located in DeWitt Clinton Park, 52nd Street and 12th Avenue. This garden covers an area of about $\frac{3}{4}$ of an acre. It was opened in 1902 and was the nucleus from which the other gardens branched. The children attending this garden are mostly of Irish, Polish and Swedish extraction with a strong influx of colored children. There are 400 individual gardens 4 x 8 feet which were planted for the spring crops, the first week in May. The seeds for the fall crop were in the ground by the end of June. The entire garden was fertilized during the fall with 8 truck loads of manure.

VEGETABLES PRODUCED FROM 412 CHILDREN'S PLOTS.

Radishes	8,245 bunches
Beets	3,275 bunches
Swiss Chard	3,440 stalks
Corn	975 ears
Lettuce	2,500 heads
Carrots	7,770 bunches
Onions	1,400 bunches
Celery	560 stalks
Beans	42 quarts

CROPS PRODUCED FROM 55 OBSERVATION PLOTS.

Indian Corn	48 ears
Broom Corn	38 stalks
Kaffir Corn	36 stalks
Sorghum Corn	36 stalks
Millet	4 pounds
Buckwheat	5 pounds
Parsley	110 plants
Cotton	8 plants
Rhubarb	25 bunches
Squash	11
Tobacco	15 plants
Horseradish	8 plants
Pumpkins	12
New Zealand Spinach	6 bunches
Cabbage	48 heads
Castor Oil	13 plants
Alfalfa	7 pounds
Wheat	5 pounds
Oats	3 pounds
Barley	4 pounds
Kale	25 plants
Sugar Beets	50 plants
Okra	1 quart
Peanuts	25 plants
Celery	80 plants
Sweet Potatoes	3 plants
Tomatoes	15 plants
Flax	$\frac{3}{4}$ pound

Unemployment men were on duty from November 19 to December 20, 1930.



A PRIZE WINNER AT THE HARVEST FESTIVAL
DE WITT CLINTON SCHOOL FARM
DE WITT CLINTON PARK, 54TH STREET AND 12TH AVENUE

Five men on duty, Monday, Tuesday and Wednesday.

Five men on duty Thursday, Friday and Saturday and the last week a foreman was placed over them, making six men working in DeWitt Clinton School Farm.

DETAILED REPORT OF CORLEARS HOOK SCHOOL FARM.

Total Plot Attendance of all classes for 1930.....		43,929
Neighborhood Children	6,358	
Nature Study Children	9,655	
P. S. No. 12	4,658	
P. S. No. 147	4,234	
P. S. No. 110	9,897	
P. S. No. 31	3,625	
P. S. No. 34	4,042	
Settlement House	1,460	
Individual Gardens	389	4x8'

Corlears Hook School Farm is located at Jackson and Cherry Streets. This garden covers an area of $\frac{3}{4}$ of an acre and was established in 1913. The children attending this garden are of Jewish and Irish extraction.

This garden has two Open-Air Classes throughout the year. The fence around the garden, facing the ball field, is in very bad condition. A new retaining wall of cement is needed to replace the one of wood, which acts as a base for the fence that encloses the garden. The entire garden was fertilized during the fall with 10 loads of manure.

VEGETABLES PRODUCED FROM 300 CHILDREN'S PLOTS.

Radishes	4,800 Bunches
Beets	2,930 Bunches
Swiss Chard	2,175 Stalks
Corn	835 Ears
Lettuce	3,265 Heads
Carrots	4,265 Bunches
Onions	890 Bunches
Celery	505 Stalks
Beans	35 Quarts

CROPS PRODUCED FROM 27 OBSERVATION PLOTS.

Celery	30 Stalks
Parsley	30 Bunches
Kale	30 Plants
Broom Corn	19 Plants
Kaffir Corn	24 Plants
Sorghum Corn	24 Plants
Squash	4 Heads
Cabbage	10 Heads
Flax	$\frac{1}{2}$ Pound
Peanuts	10 Plants

Cotton	8 Plants
Tobacco	10 plants
Indian Corn	50 ears
Vetch	1 pound
Alfalfa	2 pounds
Wheat	3 pounds
Rye	1 pound
Barley	1 pound
Millet	½ pound
Okra	½ quart
Pumpkin	8 plants
Castor Oil	5 plants

IMPROVEMENTS AND REPAIRS DURING 1930.

Fence around Corlears Hook School Farm was repaired.

DETAILED REPORT OF SEWARD PARK SCHOOL FARM.

Total Plot Attendance of all classes for 1930.....	4,000
Individual Gardens	100

SEWARD PARK SCHOOL FARM was conducted under great difficulties owing to the construction of a new Park Building which encroached upon the area used for the garden. This work is nearing completion.

SEWARD PARK GARDEN is located at East Broadway and Canal Street. This School Farm was established in 1927, covering an area of ⅛ acre. This area is divided into 90 individual garden plots and 10 observation plots. The children attending the garden are all of Jewish extraction. It is extensively used by the Garden Club of the Hebrew Educational Alliance.

VEGETABLES PRODUCED FROM 90 CHILDREN'S PLOTS.

Radishes	1,605 bunches
Beets	935 bunches
Swiss Chard	635 stalks
Corn	275 ears
Lettuce	995 heads
Carrots	1,350 bunches
Onions	270 bunches
Celery	150 stalks
Beans	10 quarts

THE OBSERVATION PLOTS are similar to those of the large gardens, only smaller, owing to the limited area.

DETAILED REPORT OF CHELSEA PARK SCHOOL FARM.

Total Plot Attendance of all classes for 1930.....	1,942
Individual Gardens	43

CHELSEA GARDEN is located at 28th Street and 9th Avenue, covering an area of about 30 feet by 150 feet. The garden was established in 1928 by request of the Hudson Guild. This is the smallest garden and has about 43 individual plots. It has no building or tool house, adjoining Park House being used. This garden only requires the part time services of one attendant three times a week.

A large flower bed has been installed and plots arranged so as to fit into the general park scheme. A new fence is required around the garden. New borders were placed around the garden.

VEGETABLES PRODUCED FROM 43 CHILDREN'S PLOTS.

Radishes	340 bunches
Beets	120 bunches
Swiss Chard	400 plants
Corn	110 ears
Carrots	80 bunches
Onions	65 bunches
Beans	5 quarts

CROPS PRODUCED FROM 13 OBSERVATION PLOTS.

Sugar Beets	7 plants
Castor Oil	2 plants
Peanuts	3 plants
Tobacco	3 plants
Rhubarb	3 bunches
Parsley	20 plants
Indian Corn	14 ears
Broom Corn	4 stalks
Kaffir Corn	5 stalks
Sorghum Corn	4 stalks
Wheat	1/3 pound
Flax	1/3 pound
New Zealand Spinach	5 pounds

DETAILED REPORT OF TOMPKINS SQUARE SCHOOL FARM.

Total Plot Attendance of all classes for 1930.....		13,312
Neighborhood	8,265	
Kindergarten	2,740	
P. S. 61 Grade	349	
P. S. 61 Ungraded	868	
P. S. 126 Grade	988	
P. S. 36 Grade	42	
P. S. 15 Grade	60	

Tompkins Square School Farm is located at Avenue A and East 8th Street.

A NEW SCHOOL FARM at Tompkins Square Park, comprising an area of 30 feet by 100 feet, was started April 29, 1930.

After intensive preparation, this farm was planted by equally intensive little farmers, May 6, 1930.

Near the middle of October, the harvest was fittingly celebrated and prizes were given to the children for the best efforts. Educational and civic groups attended this harvest and marveled at the transformation and results.

There are 100 individual plots measuring 4 feet by 4 feet. Owing to the small area of this garden and the large number of children applying for planting space, many small plots were used for groups of as many as 20 children. To give a personal interest to this form of intensive gardening, each child was allowed to plant two or three seeds of radishes and at the harvest time, the crop was divided in a pro rata share. This method, in a way, was successful in handling the large group of applicants.

This garden required the services of one attendant, after the preliminary work was completed and had an attendance of 13,312.

VEGETABLES PRODUCED FROM 100 CHILDREN'S PLOTS, TOMPKINS SQUARE SCHOOL FARM.

Radishes	1,680 bunches
Beets	955 bunches
Swiss Chard	710 stalks
Corn	280 ears
Carrots	1,400 bunches
Onions	300 bunches
Beans	12 quarts

CROPS GROWN IN THE OBSERVATION PLOTS were Tobacco, Peanuts, Flax, Wheat and Rye.

FINANCIAL STATEMENT

REVENUES—1930.

Privileges	\$91,667.51
Motion Picture Taking	257.00
Still Picture Taking	267.00
Damage to Departmental Property (Collections)	559.69
Zoological Garden Fund	1,401.80
Interest on Bank Deposits	68.51
Deposits for tree planting	620.00
Deposits for Street Openings, etc	1,598.00
Temporary Roof or Sheds	53.00
Deposit of Fill	5,530.80
Sale of Scrap Iron	60.00
(Junior) Lawn Tennis Permits	328.00
(Senior) Lawn Tennis Permits	9,454.00
Removal of Wall, Riverside Park	150.00
Inspection Fees	48.00
Total Collections, Year 1930	<u>\$112,063.31</u>
Amount remitted to Chamberlain, City of New York	\$112,063.31

DEPOSITS ON HAND.

On Account of Employees' Badges:		
On hand December 31, 1929.....	\$1,157.15	
Receipts	28.50	\$1,185.65
Refunds		10.90
On hand December 31, 1930.....		<u>\$1,174.75</u>
On Account of Foreman's Badges:		
On hand December 31, 1929.....	47.75	
On hand December 31, 1930.....		47.75
On Account of Attendant's Badges:		
On hand December 31, 1929.....	64.10	
On hand December 31, 1930.....		64.10
On Account of License Tags:		
On hand December 31, 1929.....	290.00	
On hand December 31, 1930.....		290.00
Total on Deposit.....		<u>\$1,576.60</u>

DEPARTMENT OF PARKS, MANHATTAN

Statement of the Condition as at the Close of Business, December 31, 1930, of all Appropriation Accounts for 1930.

<i>Code No.</i>	<i>Title of Accounts</i>	<i>Net Funds Available</i>	<i>Net Vouchers Registered, Based on Cancellations and Adjustments</i>	<i>Unexpended Balances</i>	<i>Unencumbered Balances</i>
1100	Salaries, Regular Employees, Park Board	\$63,261.39	\$63,261.11	.28	.28
1110	Salaries, Regular Employees, Administration	98,149.66	98,074.66	75.00	75.00
1111	Salaries, Regular Employees, Parks and Boulevards...	269,014.87	266,168.74	2,846.13	2,846.13
1112	Salaries, Regular Employees, Playgrounds, Children's School Parks	112,285.26	112,090.52	194.74	194.74
1113	Salaries, Regular Employees, Menagerie	20,280.00	20,280.00	.....	.....
1114	Salaries, Regular Employees, Dyckman House and Jumel Mansion	5,274.36	5,130.88	143.48	143.48
1115	Salaries, Temporary Employees, Attendants	15,124.22	15,123.44	.78	.78
1116	Wages, Regular Employees, Jumel Mansion	3,832.50	3,832.50	.....	.....
1117	Wages, Temporary Employees, Parks and Boulevards	1,455,213.05	1,446,278.10	8,934.95	8,934.95
1118	Maintenance of Riverside Drive, 158th to Dyckman Streets	18,416.75	18,408.50	8.25	8.25
1119	Playgrounds and Children's School Farms	44,100.00	43,840.00	260.00	260.00
		<u>\$2,104,952.06</u>	<u>\$2,092,488.45</u>	<u>\$12,463.61</u>	<u>\$12,463.61</u>

BUREAU OF AUDIT.
STATEMENT OF THE CONDITION AS AT THE CLOSE OF BUSINESS DECEMBER 31, 1930, OF ALL APPROPRIATION ACCOUNTS FOR THE CURRENT YEAR.

Code No. 1930	Title of Account	Net Funds Available	Net Vouchers Registered, Based on Cancellations and Adjustments	Unexpended Balances	Net Reserve for Contracts	Net Reserve for Open Market Orders and Miscellaneous Invoices	Total Net Encumbrances i. e. Net Reserves	Unenumbered Balances
1101	Park Board—Contingencies	\$225.00	\$177.35	\$47.65		\$40.16	\$40.16	\$7.49
1121	Forage and Veterinary Supplies	30,000.00	25,424.05	4,575.95	\$1,364.67	789.61	2,154.28	2,421.67
1122	Fuel Supplies	19,000.00	12,787.66	6,212.34	4,421.09		4,421.09	1,791.25
1123	Office Supplies	2,500.00	2,266.62	233.38		34.10	34.10	199.28
1124	Medical and Surgical Supplies	125.00	111.12	13.88		13.50	13.50	.38
1125	Motor Vehicle Supplies	6,700.00	5,601.11	1,098.89	389.76	123.10	512.86	586.03
1126	Cleaning and Disinfecting Supplies	1,350.00	1,227.62	122.38		94.94	94.94	27.44
1127	Recreational Supplies	500.00	289.29	210.71		117.95	117.95	92.76
1128	Botanical and Agricultural Supplies	30,000.00	26,639.54	3,360.46		3,142.65	3,142.65	217.81
1129	General Plant Supplies	9,000.00	7,022.58	1,977.42		322.91	322.91	1,674.51
1130	Office Equipment	475.00	469.25	5.75		3.00	3.00	2.75
1131	Motor Vehicle Equipment	7,700.00	7,065.05	634.95		177.70	177.70	457.25
1132	Recreational Equipment	10,000.00	9,030.14	969.86	838.64	109.26	947.90	21.96
1133	General Plant Equipment	22,000.00	17,483.54	4,516.46		575.63	575.63	3,940.83
1134	Live Stock	900.00	865.00	35.00				35.00
1135	General Plant Materials	40,000.00	38,068.33	1,931.67		1,589.74	1,589.74	341.93
1136	Repairs to Roadways and Pavements	22,000.00	19,341.90	2,658.10	2,550.00		2,550.00	108.10
1137	Repairs to Walks	15,000.00	1,343.55	13,656.45	7,075.00		7,075.00	6,581.45
1138	Other Repairs	51,000.00	8,832.35	42,167.65	11,002.47	3,612.25	14,614.72	27,552.93
1139	Motor Vehicle Repairs	700.00	642.61	57.39		18.49	18.49	38.90
1140	Shoeing and Boarding of Horses Including Veterinary Services	1,100.00	1,046.00	54.00		49.00	49.00	5.00
1141	Carfare	1,400.00	1,389.60	10.40				10.40
1142	Telephone Service	3,800.00	3,752.61	47.39	42.96		42.96	4.43
1143	General Plant Service	750.00	514.50	235.50		96.50	96.50	139.00
1144	Music	36,768.00	36,537.00	231.00		229.00	229.00	2.00
1145	Contingencies	200.00	169.57	30.43				30.43
1180	Grant's Tomb—Contract or Open Order Service	7,000.00		7,000.00				7,000.00
1186	N. Y. Public Library Building—General Maintenance	69,166.67	56,388.02	12,778.65				12,778.65
1187	N. Y. Public Library Building—Special Repairs	28,500.00	25,201.23	3,298.77				3,298.77
1190	Metropolitan Museum of Art—Personal Service—Regular Employees	337,883.67	309,378.04	28,505.63				28,505.63
1192	Metropolitan Museum of Art—Expenses Other Than Personal Service	96,500.00	89,866.80	6,633.20				6,633.20
1195	N. Y. Zoological Society, N. Y. Aquarium—Personal Service, Regular Employees	56,225.33	51,606.38	4,618.95				4,618.95
1196	N. Y. Zoological Society, N. Y. Aquarium—Supplies	8,525.00	6,781.98	1,743.02				1,743.02
1197	N. Y. Zoological Soc., N. Y. Aquarium—Equipment	2,230.00	2,058.60	171.40				171.40
1198	N. Y. Zoological Society, N. Y. Aquarium—General Plant Materials	1,800.00	1,641.55	158.45				158.45
1199	N. Y. Zoological Society, N. Y. Aquarium—Contract or Open Order Service	12,100.00	6,581.82	5,518.18				5,518.18
1200	N. Y. Zoological Soc., N. Y. Aquarium—Contingencies	150.00	129.21	20.79				20.79
1205	American Museum of Natural History—Personal Service—Regular Employees	420,478.16	385,334.77	35,143.39				35,143.39
1206	American Museum of Natural History—Expenses Other Than Personal Service	62,796.50	61,433.77	1,362.73				1,362.73
	Total	\$1,416,548.33	\$1,224,480.11	\$192,068.22	\$27,684.59	\$11,139.49	\$38,824.08	\$153,244.14

132

DEPARTMENT OF PARKS, MANHATTAN

STATEMENT OF THE CONDITION OF CORPORATE STOCK, ASSESSMENT BOND, SPECIAL REVENUE BOND AND SPECIAL ACCOUNTS
AS AT DECMEBER 31, 1930

Code No.	Title of Fund or Account	Total Adjusted Credits	Net Vouchers Registered, Based on Cancellations and Adjustments	Adjusted Credits Unexpended	Net Reserve for Contracts	Net Reserve for Open Market Orders and Miscel. Invoices	Total Net Encumbrances i. e. Net Reserves	Unem-umbered Balances
N. D. P.								
3Y	American Museum of Natural History	\$2,294.00		\$2,294.00	\$2,294.00		\$2,294.00	
3-6	American Museum of Natural History	10,500.00	\$8,931.74	1,568.26				\$1,568.26
3-7	American Museum of Natural History	10,000.00	3,216.60	6,783.40	6,728.40		6,728.40	55.00
3-8	American Museum of Natural History	149,800.00	95,242.61	54,557.39	8,932.97	\$1,378.49	10,311.46	44,245.93
3-9	American Museum of Natural History	9,100.00		9,100.00				9,100.00
3-10	American Museum of Natural History	8,000.00	110.00	7,890.00				7,890.00
3-11	American Museum of Natural History	35,000.00		35,000.00				35,000.00
4-d	New York Aquarium	60,000.00	5,382.30	54,617.70	27,255.70		27,255.70	27,362.00
4-f	Battery, Permanent Roadway	25,000.00		25,000.00				25,000.00
75-e	Improvement of Highbridge Playground	18,000.00	17,991.67	8.33				8.33
75-g	Highbridge, Fences, Walks, Walls	50,000.00	46,750.38	3,249.62				3,249.62
75-h	Highbridge, Improvement of Playgrounds	40,000.00	2,707.50	37,292.50				37,292.50
75-j	Harlem River Driveway, General Improvement	30,000.00		30,000.00				30,000.00
102-a	Improvement of Inwood Hill	100,000.00	96,443.57	3,556.43	2,549.30		2,549.30	1,007.13
102-b	Inwood Hill, Demolition of Buildings	50,000.00	1,100.00	48,900.00	3,460.00		3,460.00	45,440.00
102-c	Fort Washington, New Field House	25,000.00	1,560.00	23,440.00				23,440.00
105-a	Washington Square, General Improvement	50,000.00		50,000.00				50,000.00
106-a	Rehabilitation of Riverside Park	164,500.00	157,028.72	7,471.28	5,936.00	1,000.00	6,936.00	535.28
106-b	Riverside Park, Additional Water Supply	15,000.00		15,000.00				15,000.00
107-a	Improvement of Broadway Plots	122,000.00	104,863.25	17,136.75				17,136.75
108-b	Riverside Drive, Safeguarding Rock Cuts	77,000.00	480.00	76,520.00		460.00	460.00	76,060.00
109-a	Fencing, Improving Small Parks	31,200.00	3,776.53	27,423.47	2,289.50		2,289.50	25,133.97
110-a	Carl Schurz, Improving Playground	23,000.00	22,497.78	502.22	500.00		500.00	2.22
113-a	Rehabilitation of Central Park	1,417,037.33	985,478.82	431,558.51	30,758.34	3,884.00	34,642.34	396,916.17
113-c	Merkel Contract	5,000.00	3,700.00	1,300.00			1,300.00	
113-d	Central Park, Repaving Park Drives	50,000.00	13,093.96	36,906.04				36,906.04
113-e	Central Park, South Reservoir	100,000.00	3,932.35	96,067.65				96,067.65
113-f	Central Park, Additional Greenhouses	25,000.00	440.00	24,560.00		50.50	50.50	24,509.50
113-g	Central Park, Concrete Curbing	5,000.00	1,724.22	3,275.78	1,065.78		1,065.78	2,310.00
113-h	Central Park, New C/S near Dairy	10,000.00		10,000.00				10,000.00
113-j	Central Park, New Storage Building, 97th Street	50,000.00		50,000.00				50,000.00
113-k	Central Park, New Lion House	100,000.00		100,000.00				100,000.00
113-l	Central Park, Replace Bridge No. 10	14,000.00		14,000.00				14,000.00
113-m	Central Park, New Boathouse Conservatory	18,000.00		18,000.00				18,000.00
114-a	New York Public Library	25,000.00		25,000.00	12,320.00		12,320.00	12,680.00
118	Colonial Park, Comfort Station	9,950.00	8,062.47	1,837.53	298.00		298.00	1,539.53

DEPARTMENT OF PARKS, MANHATTAN

STATEMENT OF THE CONDITION OF CORPORATE STOCK, ASSESSMENT BOND, SPECIAL REVENUE BOND AND SPECIAL ACCOUNTS
AS AT DECEMBER 31, 1930—Continued.

Code No.	Title of Fund or Account	Total Adjusted Credits	Net Vouchers Registered, Based on Cancellations and Adjustments	Adjusted Credits Unexpended	Net Reserve for Contracts	Net Reserve for Open Market Orders and Miscel. Invoices	Total Net Encumbrances i. e. Net Reserves	Unem-cumbered Balances
N. D. P.								
121-a	Metropolitan Museum of Art	\$20,000.00	\$18,270.37	\$1,729.63		\$1,461.64	\$1,461.64	\$267.99
121-a1	Metropolitan Museum of Art	70,000.00	3,976.05	66,023.95	\$10,817.77	\$2,271.82	13,089.59	52,934.36
121-b1	Metropolitan Museum of Art	58,000.00	18,090.39	39,909.61		1,688.87	1,688.87	38,220.74
123	Paving Walks, Small Parks	50,000.00	18,194.80	31,805.20	2,156.10		2,156.10	29,649.10
124	DeWitt Clinton, Pergola	30,000.00	780.00	29,220.00				29,220.00
124-a	Wading Pools, Various Parks	50,000.00	10,277.94	39,722.06	8,431.50		8,431.50	31,290.44
124-b	DeWitt Clinton, Running Track and Walk	8,000.00		8,000.00	4,875.50		4,875.50	3,124.50
125	Morningside, Rehabilitation	110,000.00	8,986.22	101,013.78				101,013.78
125-a	Morningside, Fieldhouse and C/S	12,000.00		12,000.00				12,000.00
126	Mount Morris, New Playground	110,000.00	1,960.00	108,040.00				108,040.00
127	Madison Square, Rehabilitation	50,000.00	14,719.97	45,280.03	14,525.73		14,525.73	30,754.30
128	Union Square, Reconstruction	125,000.00	2,845.00	122,155.00				122,155.00
129	St. Nicholas, Stairway and Ramp	25,000.00	7,607.04	17,392.96	2,759.46		2,759.46	14,633.50
129-a	St. Nicholas, Terrace and Construction of Playground	40,000.00		40,000.00				40,000.00
129-b	St. Nicholas Playground, Small Field House	8,000.00		8,000.00				8,000.00
130	Improving Park at 155th Street, Edgecombe Avenue	4,000.00	2,919.12	1,080.88				1,080.88
131	Union Square, Removal of Monuments	30,000.00	6,098.25	23,901.75				23,901.75
132	Jasper Oval, Resurfacing Fieldhouse	45,500.00	5,789.03	39,710.97				39,710.97
133	Hudson, Resurfacing Fences, Handball Court	10,000.00	2,898.52	7,101.48				7,101.48
134	Thomas Jefferson, Field House, concrete floors	15,000.00		15,000.00				15,000.00
135	Hamilton Fish, Resurfacing Playground	5,300.00		5,300.00				5,300.00
136	Tompkins Square, Resurfacing Playground	3,000.00		3,000.00				3,000.00
136-a	Tompkins Square, Enlarging Boys' Playground	30,000.00		30,000.00				30,000.00
137	Stuyvesant Square, Lowering Sidewalks	5,000.00		5,000.00	3,690.00		3,690.00	1,310.00
138	189th Street Highbridge, Small Field House	8,000.00		8,000.00		69.75	69.75	7,930.25
139	Seward, General Improvement	25,000.00		25,000.00				25,000.00
140	Watergate, General Improvement	15,000.00		15,000.00				15,000.00
141	Awnings for Baby Swings, Various Playgrounds	7,000.00		7,000.00				7,000.00
142	Wading Pools at Various Playgrounds	16,000.00		16,000.00				16,000.00
143	Handball Courts at Various Playgrounds	3,000.00		3,000.00				3,000.00
144	Highbridge, Unemployment Roll	53,100.00	41,266.88	11,833.12		384.06	5,114.06	6,719.06
	Total—Tax Notes	\$3,975,281.33	\$1,749,194.05	\$2,236,037.28	\$148,944.05	\$12,649.13	\$170,323.18*	\$2,065,813.98

* Net Reserve for Pay Rolls—\$4,730.00.

DEPARTMENT OF PARKS, MANHATTAN

STATEMENT OF THE CONDITION OF CORPORATE STOCK, ASSESSMENT BOND, SPECIAL REVENUE BOND AND SPECIAL ACCOUNTS
AS AT DECEMBER 31, 1930—Continued.

Code No.	Title of Fund or Account	Total Adjusted Credits	Net Vouchers Registered, Based on Cancellations and Adjustments	Adjusted Credits Unexpended	Net Reserve for Contracts	Net Reserve for Open Market Orders and Miscel. Invoices	Total Net Encumbrances i. e. Net Reserves	Unem- cumbered Balances
C. D. P.								
3-5	American Museum of Natural History	\$150,000.00	\$76,685.75	\$73,314.25	\$49,011.06		\$49,011.06	\$24,303.19
118-b	Metropolitan Museum of Art	46,000.00	31,422.05	14,577.95	800.00		800.00	13,777.95
118-c	Metropolitan Museum of Art	4,000.00	3,525.61	474.39				474.39
119	Metropolitan Museum of Art	20,000.00	19,996.98	3.02				3.02
121	Tennis House, Central Park	63,958.57	62,294.50	1,664.07	929.00		929.00	735.07
121-a	Tennis House, Equipment	20,891.43	13,478.85	7,412.58	7,412.58		7,412.58	
122	American Museum of Natural History	1,500,000.00	13,723.14	1,486,276.86	49,917.95		49,917.95	1,436,358.91
123	American Museum of Natural History	18,500.00		18,500.00				18,500.00
123-a	American Museum of Natural History	602,500.00	457,581.89	144,918.11	114,918.11		114,918.11	30,000.00
123-b	American Museum of Natural History	253,000.00	182,575.00	70,425.00	57,425.00		57,425.00	13,000.00
123-c	American Museum of Natural History	58,000.00	36,930.16	21,069.84	17,963.84		17,963.84	3,106.00
123-d	American Museum of Natural History	467,500.00	338,718.59	128,781.41	105,281.41		105,281.41	23,500.00
123-e	American Museum of Natural History	953,500.00	276,262.20	677,237.80	314,748.80		314,748.80	362,489.00
123-f	American Museum of Natural History	104,000.00	15,126.82	88,873.18	44,873.18		44,873.18	440,000.00
123-g	American Museum of Natural History	50,000.00	10,394.10	39,605.90	25,605.90		25,605.90	14,000.00
123-h	American Museum of Natural History	106,000.00	56,115.00	49,885.00	41,566.00		41,566.00	8,319.00
123-j	American Museum of Natural History	37,000.00		37,000.00	36,559.50		36,559.50	440.50
124	Metropolitan Museum of Art	57,000.00	25,741.70	31,258.30	22,257.80		22,257.80	8,990.50
124-a	Metropolitan Museum of Art	18,000.00	2,880.00	15,120.00	7,398.00		7,398.00	7,722.00
125	Metropolitan Museum of Art	35,000.00	30,413.00	4,587.00				4,587.00
125-a	Metropolitan Museum of Art	180,000.00		180,000.00				180,000.00
126	Metropolitan Museum of Art	6,000.00		6,000.00	6,000.00		6,000.00	
127	Metropolitan Museum of Art	30,000.00		30,000.00				30,000.00
	Total—Corporate Stock	\$4,780,850.00	\$1,653,865.34	\$3,459,984.25	\$902,668.13		\$902,668.13	\$2,620,106.53
R. D. P.								
28	Repairs to Gracie Mansion and Esplanade	\$9,776.50	\$6,190.60	\$3,575.90	\$1,896.40		\$1,896.40	\$1,679.50
29	Purchase of Hippo	6,500.00		6,500.00		\$6,500.00	6,500.00	
	Total Revenue Bonds	\$16,276.50	\$6,190.60	\$10,075.90	\$1,896.40	\$6,500.00	\$8,396.40	\$1,679.50

DEPARTMENT OF PARKS, MANHATTAN

STATEMENT OF THE CONDITION OF CONTRACTS AS AT THE CLOSE OF BUSINESS DECEMBER 31, 1930

Comptrol- ler's Con- tract No.	Date of Award	Name of Contractor		Nature of Contract	Total Amount Certified	Net Vouchers Registered	Balance of Estimated Liability
87,859	4- 4-28	Darrow Lumber Co.	1928—1135	Lumber	\$1,184.68		\$1,184.68
97,660	2- 4-30	Hugo Strauss Packing Co.	1930—1121	Horse Meat	7,150.00	\$6,475.00	675.00
101,278	9-23-30	Borough Hay & Grain Co.	1121	Forage	351.20	174.64	176.56
101,249	9-23-30	Carscallen & Cassidy	1121	Forage	2,525.40	2,018.11	507.29
98,848	4- 8-30	Meenan Coal Co.	1122	Coal	8,466.15	5,991.39	2,474.76
101,315	8-26-30	Utility Oil Corporation	1125	Gasolene	1,075.20	685.44	389.76
100,611	7-29-30	A. J. Ulmer	1132	Pipe Frames	3,568.68	2,730.04	838.64
	12-23-30	Brusstar Construction Co.	1136	Repairing Roadway	2,550.00		2,550.00
102,203	12-16-30	Chas. D. Beckwith	1137	Repairing Walks, Hamilton Fish	5,770.00		5,770.00
	12-16-30	Frank Mascali & Son	1137	Repairing Walks, St. Catherine	1,305.00		1,305.00
101,398	10-14-30	John M. Fox	1138	Bulkhead, Thomas Jefferson	3,960.47		3,960.47
101,888	11-18-30	Arrow Construction Co.	1138	Repair Pavilion, Thomas Jefferson	3,024.00		3,024.00
	12-30-30	Cyclone Fence Co.	1138	Picket Fence, Speedway	2,807.20		2,807.20
	12-16-30	M. J. Cauldwell	1138	Parapet, J. Hood Wright	1,437.00		1,437.00
	12-16-30	Tony DiRoma	1138	Resurfacing Playgrounds	1,722.00		1,722.00
	12-30-30	Tony DiRoma	1138	Removing Rock, Speedway	7,755.00		7,755.00
102,230	12-16-30	Schroeder Bros.	1138	Heating Repairs, DeWitt Clinton	859.00		859.00
	12-30-30	J. F. Nugent	1138	Flush Hydrants, C. P.	4,618.00		4,618.00
	12-30-30	Hahn Contracting Co.	1138	Resetting Steps, Various Parks	1,219.20		1,219.20
	3-31-30	N. Y. Telephone Co.	1142	Telephone	3,795.57	3,752.61	42.96
98,741	7-29-30	Kearns Engineering Co.	R. D. P.	Sea Wall, Carl Schurz	4,681.00	2,784.60	1,896.40
100,598	6-21-29	Cavanagh Brothers & Company	N. D. P.	Metals	2,294.00		2,294.00
94,210	6-15-30	Calbrook Company	3Y	Extension to Corridor	9,945.00	3,216.60	6,728.40
98,779	4-15-30	H. DeB. Parsons	4-d	Architect, Aquarium	4,350.00	828.30	3,521.70
98,570	5- 6-30	A. M. Diamond	4-d	Tanks, Aquarium	18,768.00	12,600.00	6,168.00
99,086	10-30-30	A. M. Diamond	4-d	Wall, Aquarium	7,030.00	4,554.00	2,476.00
101,601	5- 6-30	Hygrade Plumbing Co.	4-d	Plumbing, Aquarium	2,490.00		2,490.00
99,091	10-14-30	L. B. Harrison	102-a	Benches, Isham	862.00		862.00
101,394	10-30-26	P. J. Kearns Construction Co.	102-a	Trees, Seaman Ave.	1,687.30		1,687.30
81,661	12-16-30	Parkside Bldg. Co.	102-b	Demolish Buildings, Inwood	3,460.00		3,460.00
102,222	5- 6-30	P. H. Murphy	106-a	Walks, Soldiers Monument	2,139.00		2,139.00
99,099	7-15-30	Waltham Corporation	106-a	Pipe Fence, Riverside	3,797.00		3,797.00
100,390	12- 2-30	Atlas Fence Company	109-a	Fence, Coleman Playground	2,289.50		2,289.50
101,968	6- 3-30	C. D. Beckwith	113-a	New Walks, Central	32,240.16	14,377.82	17,862.34
99,635	11-25-30	Van Iderstine Company	113-a	Fertilizers	1,485.00		1,485.00
101,989	11-25-30	Terminal Supply Company	113-a	Fertilizers	3,293.00		3,293.00
101,987	11-25-30	Ray-mont Products Co.	113-a	Fertilizers	4,360.00		4,360.00
101,985	11-25-30	John M. Fox	113-a	Fertilizers	3,740.00		3,740.00
101,976	7-18-27	H. W. Merkel	113-c	Engineering Services	5,000.00	3,700.00	1,300.00
84,853	10-28-30	H. B. Greene	113-g	Curbing, Central Park	2,790.00	1,724.22	1,065.78
101,604	3- 4-30	Silvestri Brothers	110-a	Field House, Carl Schurz	12,498.00	11,998.00	500.00
98,039	11-18-30	Mead & Co.	114-a	Book Conveyors, N. Y. P. L.	12,320.00		12,320.00

136

DEPARTMENT OF PARKS, MANHATTAN

STATEMENT OF THE CONDITION OF CONTRACTS AS AT THE CLOSE OF BUSINESS DECEMBER 31, 1930—Continued.

Comptrol- ler's Con- tract No.	Date of Award	Name of Contractor		Nature of Contract	Total Amount Certified	Net Vouchers Registered	Balance of Estimated Liability
101,886	11-18-30	Albert J. Heidt	118	Completion Colonial Comfort Station	\$298.00		\$298.00
101,928	11-18-30	Remington Rand Company	121-a1	Hat Racks, Metropolitan Museum of Art	1,237.51		1,237.51
101,932	11-18-30	Universal Fixtures Corporation	121-a1	Shelving, Metropolitan Museum of Art	1,833.50		1,833.50
102,139	12- 9-30	Swift Machinery Company	121-a1	Shaper Machine, Metropolitan Museum of Art	2,020.00		2,020.00
	12-30-30	Globe Wernicke Company	121-a1	Furniture, Metropolitan Museum of Art	2,783.76		2,783.76
98,480	4- 1-30	Frank Mascali & Sons	123	Walks, Battery and Columbus	18,900.00	\$17,614.80	1,285.20
101,403	10-14-30	Albert Ross	124-a	Wading Pool, St. Gabriel's	2,564.00		2,564.00
	12-16-30	Cavanagh Contracting Co.	124-a	Wading Pool, Chelsea Park	2,447.00		2,447.00
	12-16-30	Cavanagh Contracting Co.	124-a	Wading Pool, 59th St.	3,420.50		3,420.50
	12-16-30	Frank Mascali & Sons	124-b	Running Track, DeWitt	4,875.50		4,875.50
101,975	12- 2-30	John M. Fox	N. D. P.	Restoration, Madison Square	6,640.00		6,640.00
100,319	7-15-30	Booth Construction Co.	127	Restoration, Madison Square	19,754.70		19,754.70
100,590	7-29-30	M. J. Cauldwell	129	Restore Entrance, St. Nicholas	6,546.50	3,787.04	2,759.46
	12-16-30	Tri-Boro Asphalt Corporation	137	Lowering Walk, Stuyvesant Square	3,690.00		3,690.00
93,465	4-19-29	Trowbridge & Livingston	C. D. P.	Architects, American Museum Natural History	51,673.00	18,128.14	33,544.86
93,464	4-19-29	Trowbridge & Livingston	3-5	Architects, American Museum Natural History	46,899.00	41,432.80	5,466.20
95,121	7-30-29	Selvil Construction Corporation	121	Tennis House, Central Park	57,461.00	56,961.00	500.00
98,700	3-11-30	Tony DiRoma	121	Sewer, Tennis Grounds	2,778.00	2,349.00	429.00
95,802	9-24-29	Ed. Segal & Co.	121-a	Plumbing, Tennis House	9,020.00	8,839.60	180.40
101,945	11-25-30	Lyons Metal Produce Co.	121-a	Lockers, Tennis House	7,232.18		7,232.18
97,455	1-10-30	Trowbridge & Livingston	122	Architect, American Museum Natural History	50,000.00	82.05	49,917.95
96,259	11-12-29	M. F. Kelly Building Corporation	123-a	Power House, Amer. Museum Natural History	572,500.00	457,581.89	114,918.11
		M. F. Kelly Building Corporation	123-b	Power House, Amer. Museum Natural History	240,000.00	181,575.00	58,425.00
96,267	11-12-29	Tri Borough Engineering Corporation	123-c	Plumbing, American Museum Natural History	54,894.00	42,431.32	12,462.68
96,246	12-12-29	Gillis & Geoghegan	123-d	Heating American Museum Natural History	444,000.00	338,718.59	105,281.41
95,973	10-15-29	Maxwell Gibbs Corporation	123-e	African Hall, Amer. Museum Natural History	199,000.00	170,028.00	28,972.00
99,378	5-13-30	C. & W. Construction Co.	123-e	African Hall, Amer. Museum Natural History	386,000.00	100,223.20	285,776.80
		C. & W. Construction Co.	123-f	African Hall, Amer. Museum Natural History	60,000.00	15,126.82	44,873.18
99,097	5- 6-30	Moran Engineering Co.	123-g	Plumbing, American Museum Natural History	36,000.00	10,394.10	25,605.90
99,096	5- 6-30	James H. Martin	123-h	Heating, American Museum Natural History	97,681.00	56,115.00	41,566.00
	12-23-30	A. Cianciulli Corporation	123-j	Sewer, American Museum Natural History	36,559.50		36,559.50
99,082	5- 6-30	Castor & Castor	124	Library Extension, Metropolitan Museum of Art	44,855.00	22,597.20	22,257.80
99,087	5- 6-30	Dierks Heating Company	124-a	Heating, Metropolitan Museum of Art	4,638.00		4,638.00
99,092	5- 6-30	P. J. Keogan Company	124-a	Electricity, Metropolitan Museum of Art	3,890.00	1,800.00	2,090.00
99,093	5- 6-30	Harry Klein	124-a	Plumbing, Metropolitan Museum of Art	1,750.00	1,080.00	670.00
42,778	6-10-15	Nygren, Tenny & Ohmes	61-a	Engineering Services	480.00		480.00