

ANNUAL REPORT
OF THE
DEPARTMENT OF PARKS
BOROUGH OF QUEENS

CITY OF NEW YORK

FOR THE YEARS 1927 AND 1928

JAMES BUTLER

Commissioner of Parks

PARK BOARD

WALTER R. HERRICK, *President*

JAMES P. BROWNE

JAMES BUTLER

JOSEPH P. HENNESSEY

JOHN J. O'ROURKE

WILLIS HOLLY, *Secretary*

JULIUS BURGEVIN, *Landscape Architect*

DEPARTMENT OF PARKS

Borough of Queens

JAMES BUTLER, *Commissioner*

JOSEPH F. MAFERA, *Secretary*

WILLIAM M. BLAKE, *Superintendent*

ANTHONY V. GRANDE, *Asst. Landscape Architect*

EDWARD P. KING, *Assistant Engineer*

LOUIS THIESEN, *Forester*

JAMES PASTA, *Chief Clerk*

CITY OF NEW YORK
DEPARTMENT OF PARKS
BOROUGH OF QUEENS

March 15, 1929.

Hon. JAMES J. WALKER,
Mayor, City of New York,
City Hall, New York.

Sir—In accordance with Section 1544 of the Greater New York Charter, I herewith present the Annual Report of the Department of Parks, Borough of Queens, for the two years beginning January 1st, 1927, and ending December 31st, 1928.

Respectfully yours,

JAMES BUTLER,

Commissioner.

CONTENTS

	Page
Foreword	7
Engineering Section	18
Landscape Architecture Section.....	38
Maintenance Section	46
Arboricultural Section	78
Recreational Features	80
Receipts	81
Budget Appropriation	81
Corporate Stock and Tax Note Appropriation.....	84
Corporate Stock and Tax Note Request for 1929.....	85
Parks	86

FOREWORD

Never before in the history of this borough have such generous appropriations been granted as under the present administration. Aware of the immense part which this rapidly growing community is destined to play in the development of our great metropolis your Honor has wisely and tactfully aided in bringing to materialization the far-seeing plans and projects conceived and put into execution by those associates to whom has been entrusted the task of administering the various departments of our municipality.

Since your Honor's inception to office this department has received, for the purpose of development and improvement of our park system, the unparalleled sum of \$1,380,900.00 in Corporate Stock and Tax Note funds. This in addition to budget amounts which have been increased each year. With these monies great strides have been taken in the direction of beautifying our parks, of making them attractive and accessible to the citizens of Queens who, it may be said, are more than ordinarily alive to the manifold advantages of a progressive park system.

Notable among the undertakings made possible by these appropriations are the following:

- a. The widening and paving of Washington Avenue, Neponsit, and the construction of a transverse road, an improvement providing the city with a splendid and adequate connecting link with the ferry system that unites the Flatbush section of Brooklyn and the lower end of the Rockaway peninsula.
- b. The reconstruction of the three bridges along the Main Drive in Forest Park, the obsolete bridges which were designed for a different order of traffic being replaced by reinforced concrete structures capable of standing up under the severe conditions to which they are now subject.
- c. The construction of bulkheads and jetties in Rockaway Beach Park, between 109th and 126th Streets, which prevents the threatened erosion of this valuable beach.
- d. The construction of the West Drive in Forest Park, leading from the Golf House to Myrtle Avenue and Hanson Place. This road will eventually become part of the Interboro Parkway system. The undertaking marks the preliminary step in the elimination of the old bituminous macadam road which bisected the golf links.

- e. The development of the easterly end of the lake and adjacent territory in Kissena Park, which meant the dredging of the lake, installation of a drainage system, construction of a new bridge, new roadways and paths.
- f. The improvement of the Richmond Hill entrance to Forest Park, at Myrtle Avenue and 109th Street, where the impressive monument "My Buddy" is located. Included in this project is the restoration of Jackson Pond, which will be restocked with fish and surrounded by a retaining wall and walk. It is the intention, as this work is carried to completion, to endow this approach to the park with a dignity and beauty in keeping with the austere spirit that actuated the dedication of the impressive memorial figure.
- g. The general improvement of the Glendale Entrance to Forest Park, at Myrtle Avenue and Dry Harbor Road. Roadways and sidewalks were constructed, water supply and drainage system installed, the old roadway bridge demolished and a wrought iron fence erected. This improvement centers about the new combined Comfort Station and Golf House.
- h. The improvement of Park Lane. The easterly end of Forest Park is adjacent to the beautiful developments known as Forest Hills and Kew Gardens. In order to have park property in harmony with these surroundings a beautiful wide walk was provided which skirts Park Lane South from Union Turnpike. This walk has been planted with American elms and will in future years be a feature of great beauty. The planting of these trees is being continued along the entire walk from Union Turnpike to the Richmond Hill entrance at 109th Street.

Other important accomplishments will be found mentioned in the text of the reports submitted by the heads of the various bureaus, herewith subjoined, as well as in the previous report made by this department in 1926. It is earnestly hoped that the liberality of the Board of Estimate and Apportionment will be extended when it comes to granting the budgetary allowances which are needed to secure additional men, materials and equipment. Your Honor realizes, no doubt, that without these provisions the task of maintaining our newly developed park areas will be severely complicated and, in some measure, frustrated entirely.

The execution of these projects, it may be well to point out, is simply the preliminary step in the fulfillment of a huge, comprehensive scheme to permanently develop our present park holdings. In November, 1928, this department submitted to the members of the Board of Estimate and Apportionment a list of tax note requests for the development of the park system of the Borough of Queens during the year

1929. The sum requested amounted to \$4,493,772.00. In exercising its discretionary powers the Board, while avowing its interest and sympathy with the proposed plans, found it expedient to reduce the requested appropriation to \$475,000.00.

A detailed account of the complete scheme of development in this request is submitted in the closing pages of this report. The needs of each park were made the subject of an exhaustive study; what value the scheme possesses lies in the fact that the entire borough system was viewed as a unity.

Careful consideration has always been given to the respective requirements of each section of the community; it may not be said that one group has been given preference over another. Naturally, however, all the parks in the system will not arrive simultaneously at the point of complete development. To perform such an accomplishment would be nothing short of a miracle. As funds are granted us the various plans will be put into operation, some times in one direction more rapidly than another, depending upon the size of the appropriations and the nature of the previous improvements. I have thought it important to stress this point as the average tax-payer, in his eagerness to see everything developed at once and possessing no intimate knowledge of the difficulties confronting us, often allows his judgment to be obscured and gives expression to unthinking criticism. Seldom, if ever, do we encounter such animadversions from community organizations since the members of such organizations usually take the trouble to acquaint themselves with our aims and proposals.

While we are upon the subject of the future status of our parks allow me on behalf of the citizens of this great community to express my gratification over the recent acquisitions which the city has made. Your Honor will recall that in my previous report I pointed out certain pertinent facts in comparing park areas, within the five boroughs, with the population figures of the said boroughs. I observed then that Queens, the fastest growing borough in the city, was adding to its population at the phenomenal rate of 100,000 a year. Its area of 117 square miles represents a little over 37% of the total area of Greater New York or, to put it another way, the area of Queens is about five times the size of Manhattan. In 1926 there was invested in park land in Queens 1,365 acres, which is to say about two percent of its area. Since then the City of New York has acquired, or is completing negotiations to acquire, three important tracts of land: Alley Pond, in the vicinity of Douglaston and Bayside, Hillside Park, formerly known as the Wigmore Estate, in Jamaica, and the Chisholm Estate in College Point. There is a strong probability that a parkway strip, or corridor, along the side of Grand Central Parkway, connecting Hillside Park and Alley Pond, will also be acquired by the city. At this writing information is at hand that official sanction has been given to convert the Twin Ponds Reservoir in Rosedale into a public park.

The addition of these tracts to the twenty-four parks now under our jurisdiction means roughly an increase of fifty percent over our 1926 parks area. This is indeed a hopeful sign and a tribute to the sagacity of the administration for, as it is well known, the future value of these lands is almost beyond computing. By purchasing now, when land in Queens is still comparatively cheap, the administration will have effected a saving of millions of dollars. Nor is this all. By the purchase of these lands the city will preserve against the encroachment of reckless speculators sites of great intrinsic beauty, lands that will be perpetually held by the municipality as breathing spots in anticipation of that day not so far distant when this borough, like the other populous boroughs of the city, will become one thriving, congested territory.

Hillside Park, acquired in 1928 at a cost of almost a million and a half dollars, is a wooded area lying north of Queens Village. Its topography corresponds to the type often described on Long Island as half hollow hills where ponds are formed in the depressions. It is natural park land requiring little cultivation. Alley Pond, whose boundaries are not yet completely determined, is at present represented by an area of over 400 acres to which increments will be added as soon as arrangements for the purchase of additional parcels can be satisfactorily made. The purchases to date represent an expenditure of \$2,150,000.00. It is expected that something like 550 acres will eventually be included in this great tract. If so, Forest Park will no longer be the largest park in the Queens system. Like the latter, Alley Pond is a rich woodland site traversed by picturesque trails. Even though no developments were undertaken its natural scenic beauty would make it an alluring retreat for those who appreciate the virginal splendors of natural woodland. The Chisholm Estate at College Point, which will be acquired by condemnation proceedings, is a tract of 77 acres bordering on the Sound. This property, on the other hand, will require considerable improvements to be converted into attractive and suitable park land. It is my intention to incorporate a request for funds in the next Corporate Stock and Tax Note Budget to enable us to make a survey for developmental plans relating to these acquisitions.

I have also been informed that land for six additional playgrounds is receiving the attention of the Comptroller. The communities selected for these sites are Corona Heights, East Elmhurst, Maspeth, Blissville, South Jamaica, and Long Island City. Authorization has already been given to purchase, at a cost of \$42,500.00, a half acre located at 102nd Street and Corona Avenue. The proposed acquisitions will materially add to the recreative facilities now enjoyed by the younger generation at the seventeen playgrounds now in operation throughout the borough.

The subject of play activities is one that has received most earnest attention during my tenure of office. The people of Queens, through their numerous social, civic, religious and educational organizations,

look to the Park Department not only for cooperation in the matter of recreative facilities but for guidance, direction and initiative. With the accelerated growth of the borough play spaces vanish everywhere, making it an absolute duty for us to aid these organizations in the solution of their problems. I am happy to state that we have visibly increased the primary facilities for recreation, such as tennis, baseball, soccer, football, skating. Additional baseball diamonds were laid out in Forest and Kissena Parks; for tennis enthusiasts we constructed twelve courts in Forest Park and four additional ones in Kissena. Plans have been made to provide six more in Astoria Park. Since 1928 a fee of one dollar is being charged for tennis permits which it is estimated will bring in a revenue sufficient to make these courts self-sustaining.

What is most urgently needed now is the establishment of a Recreational Bureau, with a capable director and personnel, to intelligently coordinate and supervise the numerous existent activities. In the belief that this innovation, which has been deferred time and again owing to the precedence given more vital and immediate problems, is now ripe for consideration I am again requesting in the 1930 budget funds for inauguration of this important permanent adjunct to our department.

Funds have been assured this year (1929) for the construction of a Field House at Victory Field and a Tennis House at Forest Park, adjoining the new courts. Adequate provisions will be made in these structures for the accommodation of the public, such as dressing rooms, lockers, showers, comfort station, etc.

Golf still remains a popular sport as may be seen from the annual revenue which accrues through the sale of permits, caddie privileges and concessions. Practically \$40,000 a year is derived from this one course, the only municipally operated in Queens. Because of its location it is used extensively by residents of Brooklyn as well as Queens. As a result of this popularity conditions have unavoidably arisen which have provoked many complaints and criticisms. Funds have been provided (to the extent of \$25,000), and work is already under way, for the restoration of the links. It should be borne in mind that this 18 hole course was originally laid out in 1907 and that at no time since has it been given the drastic reconditioning which such an intensively used course requires. Improvements have been made, to be sure, from time to time, the most recent being in 1925 when the sum of \$45,000 was expended for restoration work, grading and drainage of the fairways and greens.

Experience has since shown that other changes are required in order to make the links conform to the standards of a properly laid out and developed golf course. With the funds now obtainable the

following improvements will be made: the elimination of one short hole and the construction in place of it of a new hole of greater length, the cutting away of part of several ridges now interfering with play, the filling in or drainage of several objectionable gulleys and basins, the reconstruction of several greens in accordance with modern practice, and the plowing, harrowing, topsoiling, seeding and sodding of fairways and areas adjoining thereto in order that an attractive and suitable surface may be obtained.

The demand for municipal links is increasing and it may be safely predicted that any course constructed to accommodate the needs of this borough would shortly become self-sustaining. In view of the financial returns from existing municipal courses an appropriation of serial bonds might properly be authorized for such an additional improvement as a revenue producing proposition. A proposal has been submitted by this office to the Board of Estimate and Apportionment for the construction of another golf course in the undeveloped 151 acre tract of park lands located south of Kissena Park, Flushing. This tract is bounded by Kissena Boulevard, North Hempstead Turnpike, Fresh Meadow Road and an old right-of-way of the Long Island Railroad. Lying between Flushing and Jamaica this site is readily accessible from both these localities by automobile, bus and trolley. It is about two miles from the terminus of the subway extension at Main Street, Flushing.

Skating, during the winter months, is one of the healthful outdoor sports which the public indulges in enthusiastically. As soon as the condition of the ice permits the lakes and ponds and the artificially flooded tennis courts are immediately thrown open. At Baisley and Kissena Parks there are good-sized lakes for the skaters to stretch their legs. Upland Park, because of its proximity to the Jamaica High School, is always thronged; at Astoria Park, and at Victory Field where the oval is flooded, thousands come from near and far to participate. At night the ice is illuminated with flood lights. At Jackson Pond, in Forest Park, the youngsters are given the privilege of segregating themselves for their own unmolested amusement.

During the Summer months the usual band concerts are given which are looked forward to with keen enjoyment by young and old. In 1927 sixty-eight (68) concerts were given in the various parks utilized for this purpose; in 1928 seventy-three concerts were given. The cost of giving these concerts represented in 1927 \$12,037.00; in 1928, \$12,346.00. In recognition of the demands for this feature of park activity by the citizens of that thriving section known as South Jamaica, Baisley Park, which is located in its environs, was made a center for band concerts for the first time in 1928. The attendance was so satisfactory that it is planned to increase the number of concerts to be held at this park in the future.

We in Queens are fortunate in possessing, among our ten miles of magnificent beaches, 280 acres of park land fronting on the Atlantic Ocean. These 280 acres comprise what are known as Rockaway Beach Park and Jacob Riis Park, two separate and distinct pieces of beach land. In the case of Rockaway Park very little more need be done in the way of improving this area. There are sufficient bath-houses, under private ownership, to accommodate the bathers who are attracted to this beach. In 1928, for the first time since the beach was made available to the public, life guards were established to properly patrol the beach. The one vital improvement which was needed here—a public comfort station—I am glad to record will now be built, at Beach 116th Street and the Boardwalk, as the funds for this work have recently been granted.

In Jacob Riis Park, on the other hand, great possibilities for development present themselves. Due to the establishment of a ferry service between Brooklyn and the lower end of the Rockaway peninsula thousands of people are now taking advantage of the splendid bathing facilities offered at this beach. Most of the visitors come in automobiles and, as there are no bathhouses along this front, dress and undress in their cars. The congestion brought about through the adoption of this expedient has made it necessary to provide additional parking space, funds now being available for this purpose.

In the opinion of many this park constitutes one of the best beach fronts that the city possesses. Its direct accessibility from Brooklyn has converted it from a rather isolated piece of beach to a very popular bathing resort. The question that confronts us is how to adequately provide for the recreation of these pleasure seekers. Among the permanent plans for the future, mentioned previously in this report, was a million dollar development for Jacob Riis Park. In the opinion of the members of the Board of Estimate and Apportionment such a plan is considered premature at the present time. However, the proposed development embraces such features as the construction of roads, walks, lawns, water supply and drainage, bathhouse, comfort station, a large children's playground and other recreational facilities. In view of the fact that \$62,469.00 has been spent in the widening and paving of Washington Avenue it is perhaps not too optimistic to expect that in the course of the next few years the plans which are now on file at this office will be put through.

There is another factor, which it now seems more than ever imperative to bring to your Honor's attention, which has hampered the execution of any large undertakings at Jacob Riis Park. During the war permission was given the War and Navy Departments to occupy a section of this land. Since the close of hostilities the War Department has relinquished its activities but the Navy Department still utilizes a

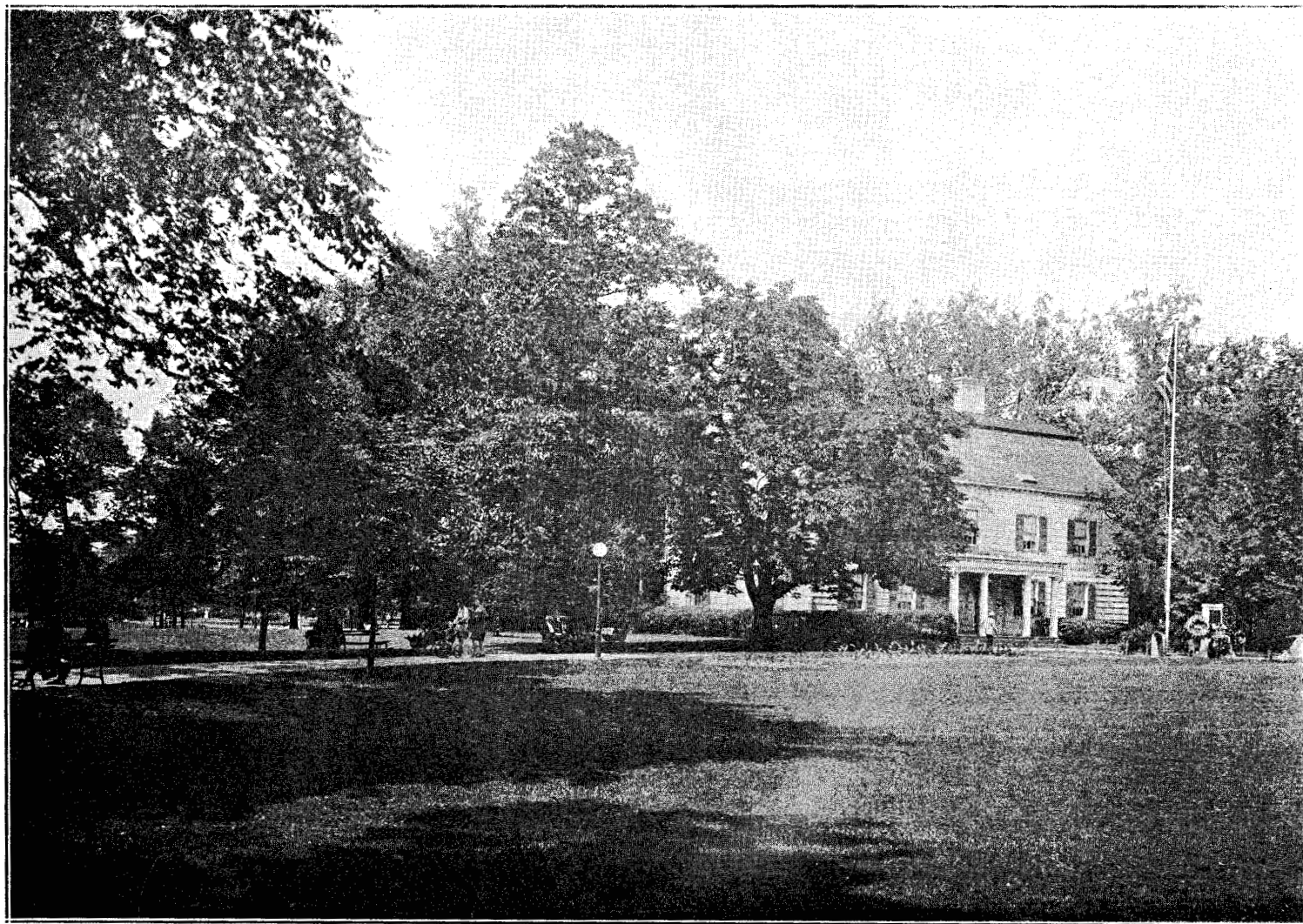
section of this park for an air base. It is my opinion that the Navy Department ought to surrender this valuable piece of property to the Park Department for its proper and originally intended development. In the meantime it may be well to give thought to the advisability of erecting a municipal bath house here, such as are in operation at other public beaches throughout the city.

While on the subject of beaches mention must be made of the proposed development of Crocheron Park, which was acquired in 1925. This park is located on Little Neck Bay at the foot of Crocheron Avenue. Part of the program for the improvement of this tract has already gotten under way. Roadways and paths are being constructed, the beach has been cleared and made suitable for bathing, and the pond at the south-eastern end of the park put into condition for boating and skating. Upon taking over this tract it was observed that a number of ramshackle buildings cluttered the beach area. These have now been demolished.

Reference must be made to a situation which is constantly arising as new street openings are made. The intersection of these new streets often produces small triangular areas which are turned over to this department for maintenance and development. A tendency has grown up to dedicate these triangles to the memory of our recent war heroes. This department is in full accord with the noble purpose of our citizens in thus utilizing these areas and every effort has been made to cooperate with the local communities in this direction. Nevertheless, the funds at our disposal for the accomplishment of this purpose are seriously inadequate; if we are to develop these tracts into suitable and dignified memorial grounds additional provisions will have to be made.

This year the sum of \$40,000.00 was received to improve the condition of our malls which have lain neglected for a long time. Fences will be erected, lawns laid out, trees and shrubs planted, and so on. Most of our malls are located along busy thoroughfares and are consequently difficult to maintain because of the pollution of the atmosphere by motor vehicles. In residential sections of the city these malls have a distinct place and lend great charm to our streets but as a community develops the congested traffic creates serious problems and ultimately brings about the elimination of this feature of urban park administration. It therefore seems futile to consider the extension of this feature except in such cases where parkways exist.

The abundance and variety of trees in the Borough of Queens is a source of great pride and admiration to its citizens. Exhaustive efforts are made by our arboricultural force to preserve the enviable condition and appearance of our streets. The streets are constantly patrolled and inspections made in order to carry on the work of removing dead and dangerous trees, to combat insect pests, etc. Last year a high-power



King Manor in King Park

spraying machine was purchased which enabled our men to augment the efficiency of their work in controlling blights.

A great deal of our arboricultural work is monopolized by the attention we have been obliged to give to the removal of what are known here in Queens as "real estate" trees. These specimens, which are poplars, were planted during the early stages of Queens' growth by real estate speculators who chose this example of tree life because of its propensity for rapid growth. Unfortunately the poplar's growth proceeds almost as rapidly below the surface as above; the roots shoot out in all directions, becoming entangled in sewer mains, lifting sidewalks, etc. At the same time it is one of the most susceptible, of all trees, to destruction by insects and other blights; its wood is soft and rots easily, and its leaves fall early. The observance of these factors finally brought about the enactment of an ordinance making it obligatory for this department to remove such trees without cost upon receipt of a written request from the house-owner. Norway maples and Oriental planes are now substituted at a nominal sum. Despite the work that has been done by our men to remedy this deplorable condition thousands of poplars are still extant, and the suggestion is therefore respectfully submitted that consideration be given to the matter of a special appropriation which would allow us to increase our arboricultural force and thus accelerate this work.

What applies to the care of street trees also applies to the preservation of the wonderful specimens which flourish in our parks. In Forest Park these are acres and acres of virgin forest land containing a sumptuous variety of beautiful trees. In Flushing special grounds have been set apart (Jackson Park) for the care and preservation of the "Weeping Beach", a tree of great age and rarity which annually attracts thousands of visitors from all over the country. Another rare specimen in Flushing, which is given the same marked attention, is the "Cedar of Lebanon", descendent of a long line of forbears originally brought to Europe from Lebanon during the Crusades.

Through the enlargement of our greenhouses we have been enabled to increase and enrich the beautiful flower beds which are annually laid out in such parks as Highland, King, Forest, Astoria, etc. In the appended report of the head gardener detailed reference is made to the number and variety of plants and flowers which are cultivated and laid out, of the public exhibits that are given annually, and the distribution made to hospitals and other public institutions.

Careful attention has been given during my incumbency to the maintenance and rehabilitation of the various buildings and other park properties throughout the system. Most of the ramshackle and obsolete structures which were in use when I first took over this office have

been done away with. In their stead thoroughly modern buildings have been erected. Besides the reconstruction of the greenhouses, which required the expenditure of \$40,000.00, we have built an addition to the service building in Forest Park at a cost of \$41,000.00. This improvement enabled us to provide adequate quarters for the storekeeper and departmental supplies, as well as a proper shelter for the department's motor equipment. Additional improvements are contemplated in the near future which will bring to completion the original plan laid out for the arrangement of our service buildings. When finished this group of buildings will furnish the utmost in accommodation for the various divisions of our maintenance bureau, and will coincidentally present an orderly and attractive appearance in contrast to the higgledy-piggledy arrangement previously existent.

There remains one phase of our maintenance problems demanding immediate consideration—that is, the introduction of up-to-date motor equipment. At the present time our maintenance forces are severely handicapped. Not only are we obliged to get along with an inadequate force of laborers and mechanics but much of the work which is now done by manual labor could be eliminated. The few thousands of dollars required for the purchase of labor-saving equipment would be in the nature of an investment. The fact that the majority of our parks are in a semi- or wholly undeveloped condition imposes greater hardships on our staff than would be the case if development work had reached a more advanced stage. Unnecessary time is wasted shifting gangs from one park to another in order to hasten the completion of a job. The work performed by these laborers is often of such a nature as could be handled more speedily and effectively by motor-equipped devices. *Practically*, the result of such economy are expensive.

Nevertheless, valiant work has been performed. Many jobs which ordinarily are given over to contract labor were undertaken entirely by departmental forces. As an example I might mention the excellent work done at our shops in the construction of ornamental concrete fountains and benches. The substitution of the permanent concrete bench for the old park bench, it is almost needless to point out, represents a fine economy as well as an aesthetic improvement. The time and labor involved in hauling the old benches to the shops, repairing and painting them, will soon be a thing of the past. With only one cement mason at our disposal this revolution is necessarily being accomplished gradually. Much remains to be done, but the evidence points to a fine beginning. It is our intention eventually to avail ourselves of the many practical uses to which concrete may be put, examples of which are too numerous to mention.

An undue portion of the work of our maintenance bureau is brought about by acts of vandalism. This is true, to be sure, in all large munici-

palities. There exists a class in our midst, it would seem, who are not content simply to enjoy the privileges bequeathed them but who abuse these privileges under the illusion that they are exercising their inalienable rights. It is difficult to make these individuals understand that a certain amount of tyranny, if we may use the word in this sense, is necessary in order to preserve the rights of the community. In other words, it devolves upon us to educate these citizens, to make them community-minded, and impress upon them the need for civic cooperation. Meanwhile, and until they are cured of their mistaken notions of liberty, we must have recourse to force. It is not enough, apparently, to erect signs; even if it were possible to stem these depredations by strewing the parks with signs the expedient would be impractical from another standpoint. When too many signs are distributed the parks take on the appearance of graveyards, to say nothing of the false psychology instilled. To properly cope with this problem it appears to me that the only effectual method is through the establishment of a park police. We have tried the alternative of installing special officers, but it remains unsuccessful. The city police, when called upon, have always evinced a cooperative spirit, but to rely almost wholly upon such assistance is weak and ineffective.

During my stewardship I have been sympathetic and alive at all times to the needs of the citizens of this borough. Many are the letters which have been received at this office from individuals and organizations of all kinds, commending the aims and accomplishments of our forces. The door has always been open to suggestions and constructive criticisms. Without the support and cooperation of the public-spirited citizens of this community much of my work would have been mitigated. The detailed report of the work performed by this department, which is appended hereto, constitutes a record of which I am proud.

In closing I wish to thank your Honor, the members of the Board of Estimate and Apportionment, Mr. Walter Herrick, President of the Park Board, and his associates for the enthusiastic support and guidance given me at all times.

Respectfully yours,

JAMES BUTLER,
Commissioner of Parks, Borough of Queens.

ENGINEERING SECTION

This bureau is engaged in the work of carrying on improvements and development of the parks situated in the Borough of Queens. Under the direction of Edward P. King, Assistant Engineer, the staff is occupied the year round in making preliminary surveys of areas where improvements are contemplated, in preparing plans, estimates of cost, contracts, contract drawings and specifications for the improvements essential to the development of the various parks. The bureau also collects data for and submits requests to the Board of Estimate and Apportionment for appropriations of Corporate Stock and Tax Note funds in order that the development of the parks in the Borough of Queens may keep pace with the development of the County. Supervision of park forces engaged in engineering maintenance and the supervision of construction and improvements under contract is also performed by employees of this bureau.

A detailed report of the work carried on by this bureau during the years 1927 and 1928 follows:

1927

Shore Road Improvement

Contract No. 77676 was executed with Connor Bros. January 7, 1926, for furnishing all labor and materials required for the improvement of Shore Road from Hoyt Avenue to Ditmars Avenue, Astoria Park, together with all work incidental thereto.

The estimated cost for this work was \$248,122.25, chargeable to Code 412 C, for the Improvement of Shore Road, Astoria Park.

The contractor was ordered on April 5, 1926, to begin work within five days. The contract was modified twice: On November 17, 1926, and on July 8, 1927. The road was thrown open to the public on October 5, 1927.

This improvement, approximately 3,100 feet long, extends along the Shore Road of the East River from Hoyt Avenue to Ditmars Avenue. A concrete retaining wall of varying height was constructed, also a 10 foot sidewalk which was separated from a 30 foot reinforced concrete road of 7 inch thickness by a 5 foot grass strip. Drainage was provided by a sufficient number of catch basins and outlets through the wall. Side slopes and adjacent areas were top-soiled and sodded, and necessary sidewalk connections were made with existing walks. The wall was surmounted by a 2'6" pipe rail fence throughout its entire length.

Funds for this appropriation were provided by the Board of Estimate and Apportionment, and plans and specifications were approved by that Board on October 9, 1925. Work of construction was begun early in the Spring of 1926.

During construction it was found necessary to modify the contract in regard to the coarse aggregate in the wall and the bulkhead construction, also in reference to the design of the roadway pavement. The latter was increased from six to seven inches in thickness; the weight of reinforcing material was also increased. Curbs and roadway slabs were made as a unit.

New coping was placed on the old wall and a low guard wall erected on the easterly side of the roadway, which will also serve as a part of the proposed wading pool improvement.

Kissena Lake Dredging

Contract No. 93199 was executed with James M. Slattery on April 5, 1927, "for furnishing all labor, apparatus and materials necessary or required for clearing and removing all vegetable matter, growths, roots, etc., from, and deepening that portion of, Kissena Lake as indicated on the contract drawings, together with all work incidental thereto."

The estimated cost of this work was \$16,800—provided in Code NDP 416 A, for the Improvement of Kissena Park Lake.

On March 26, 1927, the contractor was ordered to begin work within five days.

The work to be performed under this contract consisted of clearing from the easterly portion of Kissena Lake a mass of growth that had been gradually encroaching westward until approximately one-third of the lake was unfit for boating or skating and presented an unsightly, unkempt appearance. This growth followed the gradual silting up of the easterly end, where the inlet is located, and consequently with the removal of the growths it was determined to deepen this portion of the lake. The work was performed by the use of a drag line and bucket, the vegetable matter and roots being separated from the silt and stony matter dredged out of the lake and allowed to drain; this accumulation was disposed of later by the Contractor. Seven thousand (7,000) cubic yards of material was removed and about 125,000 square feet of lake dredged over. The earthy matter was used as fill on low area, principally on the southeasterly side of the lake, and in this manner several acres of useless park area was built up and made available for future development which is now under way in a contract for the construction of bridge, new roadways and paths.

It was found desirable to re-locate the inlet which pursued an irregular course from the easterly property line of the park to the lake. The re-located inlet is to be spanned with a rustic stone bridge, included in a contract described elsewhere in this report.

This contract was completed in August, 1927.

Kissena Park Sidewalk

Contract No. 84305 was executed with Welsh Bros. Contracting Co. on June 21, 1927, for the construction of a concrete sidewalk in the vicinity of the Comfort Station, Kissena Park. The estimated cost of this work was \$4,969, provided in Code NDP 416.

The sidewalk, 8 feet wide and approximately 1,560 feet long, extends from the Rose Street entrance of the park to the Comfort Station, and follows the crest of the bluff around to the pergola overlooking the lake, thus making a very pleasant promenade with an excellent view of the park and lake spread out beneath it, also affording excellent access to the tennis courts and Comfort Station.

The sidewalk was made available during the late Summer and was greatly appreciated by those frequenting the park.

Viewed in relation with the work of cleaning out and deepening the lake, constructing new roadways, paths and bridges, this undertaking forms part of the program envisaged for the continuous development of this beautiful park. An appropriation will be sought at an early date for the continuation of the improvement of the roadways and paths.

Rockaway Park Jetties

Contract No. 84305 was executed on May 20, 1927, with Muccini & Decker for the construction of timber bulkhead and jetties, the placing of sand fill and all other work incidental thereto on the beach front at Rockaway Park, between Beach 109th Street and Beach 126th Street. The estimated cost of this work was \$176,000, chargeable to Code N.D.P. 414 A.

The work to be done consisted of constructing approximately 4,300 linear feet of bulkhead and twelve (12) timber jetties varying from 268 feet to 350 feet in length.

The bulkhead and inshore end of the jetties was constructed of untreated timber and the jetty proper of creosoted timber.

The westerly jetty at 126th Street is to be protected by stone rip rap, the sand eroded between 121st and 126th Streets replaced, also the sheathing on the boardwalk which was carried away by last year's storms.

The contractor was ordered on June 3rd to begin work within five days. Work is still in progress due to delays caused by the crowded condition of the beach during the Summer months, by high tides and the tardy delivery of the creosoted timber needed.

The necessity for this work was forcibly demonstrated by the severe storms of the early part of the year which carried away four to six feet of beach in a single day, together with a portion of Triton Avenue located on the inshore side of the boardwalk between Beach 121st Street and Beach 126th Street. This, however, was only a particularly severe paroxysm of the process of erosion that has been going on along this short front for a number of years, a condition which would eventually have ruined the beach and undoubtedly caused much damage to adjacent property and business.

As soon as funds were available work was rushed on the preparation of plans and specifications. The low type of jetties and bulkhead was developed in order that a minimum obstruction be placed on the beach and the eye be offended as little as possible. Another advantage afforded by this type of construction is that it raises a minimum of surface to the impact of high surf, at the same time forming and maintaining a more normal and better beach carrier. These twelve jetties vary in length according to location and are from 268 to 350 feet in length. Piles are provided in each bay for life ropes for the protection of bathers. Funds will be sought for providing look-outs and the necessary ropes and catamarans to equip the life-savers who will be posted on this beach for the protection of the bathing public.

Linden Park and College Point Park Fences

Contract No. 84396 was executed on June 27, 1927, with C. Livingston Riker for the construction and erection of ornamental iron fences around Linden Park, Corona, and College Point Park, College Point. The estimated cost of the improvements was \$11,264, provided in Code NDP 418.

The contract was assigned to the Anchor Post Fence Co. August 1, 1927.

The fences to be fabricated and erected under this contract consisted of double rails, top and bottom, enclosing rings between the pickets, with corner and intermediate box posts built up of a similar motif, and with stiffener posts and braces interspersed between them. All posts and stiffener posts set in concrete foundation.

The fence as furnished by the Contractor is constructed by the electric welding process which produces a remarkably rigid and substantial structure, each panel being a completely welded unit before erection.

The total length of fence necessary to enclose these two small parks is approximately 2,200 linear feet. Work on this contract is still in progress and should be completed at an early date. This work will practically complete the development of these two parks.

Park Lane Sidewalk

Contract No. 85350 was executed November 1, 1927, with the Carbury Block Corporation for the construction of Exterior Sidewalks, Steps, and the Planting of Trees along the Park Side of Park Lane, from Union Turnpike to 115th Street, Forest Park. The contract price for this work was \$14,762, provided in Code NDP 420.

On September 29, 1927, the Contractor was ordered to start work within five days.

The work consisted in constructing approximately 2,900 linear feet of sidewalk, 8 feet wide, and the planting of 97 trees (Elms) along one of the finest streets in Kew Gardens; this work completes the sidewalk laid by the Borough President along the Park from the Myrtle Avenue entrance to 115th Street. The sidewalk in part was constructed on a terrace above the roadway and at various points concrete steps were provided for easy access. Adjacent slopes and space between the curb and sidewalk were sodded; trees were planted and securely staked.

This improvement eliminated a very unsightly condition and provides an excellent walk along this section of the Park. An adjoining property owner cooperated with this department and laid a similar walk in front of his property, thus creating a continuous sidewalk from the vicinity of Myrtle Avenue to Union Turnpike.

The contract was completed in November, 1927.

West Drive

Contract No. 86013 was executed with the Carbury Block Corporation on November 25, 1927, for construction of asphalt pavement on existing dirt road leading from the Golf House to Myrtle Avenue and Hanson Place, Forest Park. Price bid for this work was \$60,740, provided in Code NDP 407 W. Work was ordered begun not later than December 15, 1927.

The work to be done under this contract consists of paving with sheet asphalt on a 6-inch concrete foundation approximately 3,130 linear feet of road 30 feet wide, including six catch basins and curb over the greater portion. Approximately 550 linear feet are to be paved with a temporary penetration pavement.

The old dirt carriage road, leading from the vicinity of the Golf House along the westerly boundary of Forest Park to Myrtle Avenue, had become badly eroded and practically useless. A portion of it will eventually become part of Interborough Parkway and, in anticipation of this change, the roadway now under construction will be so laid out that it may be widened later on by the addition of two 15-foot side strips.

The construction of this road marks the preliminary step in the elimination of the present bituminous macadam road that serves as an outlet between the Golf House and Myrtle Avenue, a stretch of road which detracts from the Golf Links because it practically bisects them and thereby subjects motorists and pedestrians to the hazard of stray golf balls. It is proposed to eliminate this road as soon as the necessary funds are available and the west drive is open to the public.

Anawanda Park

Contract No. 85594 was executed October 14, 1927, with the Slattery Contracting Co. for the Improvement of Anawanda Park, Ridgewood. The price bid for this work was \$17,895, provided in Code NDP 419 A. On October 26, 1927, the Contractor was ordered to begin work in five days.

Anawanda Park, located at Grand View Avenue and Stanhope Street, Ridgewood, is being developed into a recreational centre for this thickly-populated neighborhood. Under the present contract the park area will be regulated and graded, drainage and water supply systems installed, approximately 850 linear feet of walks and three flights of concrete steps erected, three tennis courts and one baseball back stop installed. Topsoiling and sodding of the slopes and terraces will relieve the areas necessarily left bare for play purposes. These improvements represent the initial steps in the work of developing this park to its fullest enjoyment. It is proposed eventually to construct a running track and to clay puddle the enclosed area so that it may be flooded during the skating season, in this way giving the public two other recreational activities much in demand. Another improvement, to be taken up later on, is the installation of sand boxes and play apparatus for the kiddies, a developmental feature which would create an efficient balance of activities for the healthful enjoyment of all ages in this congested area.

The addition of a combined Bandstand and Comfort Station and Locker Rooms is desirable at as early a date as funds will permit; also the complete enclosure of the tract by a high fence adjoining the cemetery, and an ornamental fence bordering the highways.

Victory Field Sidewalk

Contract No. 86195 executed December 9, 1927, with Alfonso Bizzigotti for the construction of concrete sidewalk in the vicinity of the running track, Victory Field, Forest Park. Contract price was \$2,839.65, chargeable to Code NDP 407 P, Construction of Athletic Field, Forest Park.

Official notice to begin work within five days was forwarded December 20, 1927, but Contractor had requested permission to go in before, on account of advancing season, and had walk nearly completed at the time order arrived.

The work performed under this contract consisted in laying approximately 700 linear feet of sidewalk 8 feet wide along the westerly side of the running track and up to the entrance at the Main Drive and Woodhaven Avenue. The adjacent areas were topsoiled and sodded.

This walk provides access to the field and enables spectators to view the track events with greater facility.

Work on this contract was completed in December, 1927.

Kissena Park Bridge, Roadways and Paths

Contract No. 86197 was executed December 12, 1927, with Connor Bros. for the Construction of Bridge, New Roadways and Paths in Kissena Park. The contract price for this work is \$10,820, provided in Code NDP 416A, Kissena Park, Construction of Bridge, Drainage System and General Improvement.

The work to be done under this contract consists of constructing approximately 1,750 linear feet of 30-foot cinder surfaced roadway, 2,080 linear feet of 8-foot cinder surfaced walks and a small rustic bridge of 10-foot span, 40 feet wide. The structure is to be built of reinforced concrete faced with native stone, and the whole work furnished with topsoil and sod.

This work is a continuation of the development of the easterly end of the lake and adjacent territory; it logically follows the clearing out and deepening of the lake, completed earlier in the season.

The rustic bridge will carry the new roadway and path over the re-located inlet and will be constructed of reinforced concrete with a rustic stone facing.

The new roadway will be given a surface of cinders in order that proper settlement may take place before permanent paving.

Paths will be constructed upon the newly-reclaimed ground filled in with materials taken from the lake bottom.

The completion of this work will eliminate the dangerous entrance to the main roadway south of the bridge carrying the trolley tracks over the inlet to the lake.

Topsoiling and sodding the side slopes of walks and roadways will produce an attractive improvement to the easterly end of the Park.

Repairs to Boardwalk, Rockaway Park

Due to the severe storms along the Rockaway shore earlier in the year it was found necessary to make several repairs and replacements.

Triton Avenue, paralleling the boardwalk between Beach 121th Street and Beach 125th Street, had been eroded and carried away to a depth of approximately four to six feet, and back as far as the north property line. This condition was very dangerous and, in order to protect the public, a two-rail temporary fence was erected. On May 2nd an order was given for this work to D. H. Moriarty. The total length of fence erected was 981 linear feet; the price bid for the work was \$922.14.

The storm had also done much damage to the wooden stairways and ramps leading from the boardwalk to the beach, leaving them in a very unsafe condition. On May 14th an order was issued to D. H. Moriarty for the repair of these approaches to the beach, involving four flights of steps and five ramps leading from the boardwalk to the beach. The price bid for this work was \$600.

The ramps and adjacent sidewalks leading from the streets to the boardwalk had also been thrown down in some cases and in others badly undermined, rendering them dangerous for public use. The work of raising these ramps into place, replacing the concrete supports and sidewalks was awarded to Alfonson Bizzigotti on May 14, 1927, the price bid being \$550.

A new reinforced concrete electric light standard of similar pattern to those along the boardwalk had also to be obtained through the Westinghouse Electric Manufacturing Co. to replace the standard thrown down and destroyed at Beach 121st Street. The cost of this standard was \$125. The erection and recovery was done through the courtesy of the Queensboro Gas and Electric Co.

Crocheron Park

Numerous requests were received for the improvement of the small beach fronting Crocheron Park, Bayside. This beach is much used by those living in the vicinity during the Summer months. It was found to be obstructed by the remains of a stone wall, by debris and litter brought there by the winter tide; it was also in dangerous condition

owing to the accumulation of small sharp edged stones, broken glass, etc. It was decided to clear and clean the beach, remove the remains of the wall and replace with fine sand from a nearby pit.

This work was done by Alfonso Bizzigotti under orders issued June 1st. On June 15th these orders were approved by the Board of Estimate and Apportionment. The price bid for clearing the beach was \$870, and for screening and spreading said, and grading, \$800. Work was completed about July 15th.

1928

Richmond Hill Entrance

On January 24th bids were opened by the Park Board for the construction and general improvement of the Richmond Hill Entrance, Myrtle Avenue and 109th Street, Forest Park. The contract price for this work was \$31,512.50, provided in Code NDP 407 T.

Connor Bros. were low bidders on this work which consists of regulating, grading and paving with sheet asphalt on a 6-inch concrete foundation 550 linear feet of road 40 feet wide, leading from Myrtle Avenue and 109th Street to the Main Drive, Forest Park; it also included the laying of approximately 2,480 linear feet of mastic walk 8 feet wide and approximately 8,000 square feet of plaza about the flagpole and war memorial. The work also includes water supply and drainage installations.

This improvement replaces the 20-foot roadway which was disintegrating at an alarming rate and permits the development of the entrances centering around the flagpole and war memorial. The areas directly back of the plaza will be converted into a summer garden with steps leading down to the walks. It is the intention to continue the work about this entrance by improving Jackson Pond as soon as funds are available.

Glendale Entrance

On January 24th bids were opened by the Park Board for the construction and general improvement of the Glendale Entrance, Myrtle Avenue and Dry Harbor Road, Forest Park.

The contract price for this work was \$24,595.00, provided in Code NDP 407 U. John P. Walsh was low bidder. The work consists of regulating and grading approximately 1,300 linear feet of roadway 30 feet wide, also the adjacent area; laying approximately 1,000 linear feet of 8-foot mastic walks on a concrete base, 240 linear feet of concrete sidewalk, together with water supply, drainage, etc. The contract also specifies the taking down of the present roadway bridge and the erection of 550 linear feet of wrought iron fence and a steel flagpole.

This improvements centers about the new combined Comfort Station and Golf House. It is adjacent to the new West Drive now under construction and will be carried out in anticipation of the paving of the Interboro Parkway.

Crocheron Park Sea Wall

Contract No. 87370 was executed on March 17th with John P. Walsh for the Construction of Retaining Wall and Appurtenances in Crocheron Park, Bayside. The estimated cost of this work is \$7,400.00 provided for in Code NDP 419 B.

The work consists of constructing approximately 302 linear feet of concrete wall and footing approximately 10 feet high; the coping is 18 inches wide and is surmounted by a 3 foot 6 inch pipe railing.

A concrete spillway and 12-inch cast iron clean out pipe and valve control the overflow. The bank of the pond behind the wall was puddled with clay and an 8-foot bluestone walk was constructed on the fill placed over the old wall.

This improvement was made necessary by the failure of the rubble wall which formerly faced the earth embankment forming this pond and by the general deterioration of the pond enclosure; another consideration was the desire to provide better skating facilities, which was accomplished by raising the level of the pond. The improvement automatically eliminates an unhealthy condition prevalent at the westerly end of the pond.

The wall was constructed in front of the old wall which was not removed but incorporated in the new structure. The old spillway was removed and the present spillway constructed in the new location.

This improvement has been opened to the public and forms part of the plan for the general development of Crocheron Park.

Rainey Park Sea Wall

Contract No. 90730 was executed with Connor Bros. for the Construction of Concrete Retaining Wall at Rainey Park at an estimated cost of \$18,686.00, provided for in Code NDP 421.

The work consists of the construction of approximately 300 linear feet of concrete retaining wall, 11 feet 6 inches high on a footing 24 inches thick. The wall is to be constructed in 50-foot sections separated by a suitable asphaltic expansion joint.

The new wall will be two feet higher than the old wall which retains the present esplanade. The new esplanade will continue the wall to Sanford Street, where it will terminate at the return.

The wall will be protected by rip rap; drainage for this portion of the park will be provided by two 12-inch C. I. drains. The wall will be surmounted by a chain link fence four feet high. Side slopes and edges of the esplanade will be topsoiled and sodded.

This improvement will protect the water front of the newer portion of Rainey Park and open this section along the short front to the public. It forms part of the plan for the complete development of this park. Funds will be sought at an early date for adjusting the old esplanade and wall to the grade of the new improvement.

Bowne Park Improvement

Contract No. 91708 was executed January 18th with Slattery Contracting Co., Inc., for the Improvement of Bowne Park, Flushing, at an estimated cost of \$9,372.00, provided for in Code NDP 419-C.

Bowne Park is bounded by 155th Street, Bayside Avenue, 168th Street and 32nd (Myrtle) Avenue. 157th Street is shown on the city map as dividing this park in two sections. Efforts have been made to have 157th Street, between Myrtle and Bayside Avenues, eliminated in order to obviate the danger of a through traffic artery in a small neighborhood park such as this. Such an expedient would also prevent the destruction of many fine trees. Bowne Park has a goodly portion of its area covered with a fine growth of timber.

This improvement consists of constructing approximately 1,000 linear feet of rubble wall, reshaping the pond as an ovoid, and providing four (4) reinforced concrete ramps, 40 feet wide, for access to the water edge. An overflow is provided into the sewer on 32nd Avenue; also water supply lines and a drinking fountain.

A cinder walk around the pond, with branches to 155th and 157th Streets, will give the public access to this improvement. This walk is approximately 2,000 feet long and will serve as a sub-base for permanent pavement at a later date.

Forest and Kissena Park Tennis Courts

Contract No. 89595 was executed August 22nd with Connor Bros. for the Construction of Tennis Courts in Forest and Kissena Parks at an estimated cost of \$18,031.20, provided for in Code NDP 422.

The work consists in constructing twelve (12) tennis courts in Forest Park, adjacent to Ashland Avenue, and four (4) additional tennis courts in Kissena Park.

The construction of the courts in Forest Park involved the creation of a suitable platform at two elevations, a task accomplished by excavating into the hillside and raising the grade of the area adjacent to Ashland Avenue.

This platform, approximately 750 feet long and 110 feet wide, was covered by a clay surface and enclosed by a chain link fence twelve (12) feet high, thus providing a walk giving access to the courts. A drinking fountain was installed for the comfort of the public.

It is intended to further develop this area by the addition of a locker house, additional walks, and drainage system; also to complete the protection of the banks and terraces created by this undertaking, a project which was excluded from the contract owing to lack of funds.

In Kissena Park the four new courts were constructed adjacent to the old courts and the former provided with back stops 10 feet high.

Net posts and nets are provided for in the contract which will be completed in the early Spring. Upon completion the courts will be thrown open to the public.

Anawanda Park Wall and Fence

Contract No. 90137 was executed September 27th with Connor Bros. for the Construction of a Retaining Wall and Boundary Fence at Anawanda Park, Ridgewood. The estimated cost of this work is \$11,847.60 and is provided for in NDP 419-A-T.

The work consists of the construction of approximately 670 linear feet of retaining wall and about 350 linear feet of curb wall following the rear property line between Stanhope Street and Grandview Avenue and separating the park property from that of the adjoining cemetery. This wall is surmounted by a 10-foot chain link fence of 2-inch mesh No. 9 gage wire, and is constructed in 10 foot panels.

The necessity for this improvement was due to the irregular contour of the park site which was graded in such a manner as to produce a number of level areas for various activities, such as baseball, tennis and playfield. In order to properly protect the cemetery property and furnish and maintain the necessary privacy to those visiting the cemetery it was found advisable to erect the retaining wall and high chain link fence. The latter was made sufficiently high to intercept stray baseballs and protect the adjoining property from trespass.

Construction will be completed in the early Spring.

Park Lane Improvement

Contract No. 89737 was executed August 28th with Connor Bros. for the Improvement of Park Lane South, from Myrtle Avenue to Metropolitan Avenue. The estimated cost of this work was \$14,032, provided for in Code NDP 420 G.

The work of furthering the improvement along Park Lane South in the highly developed section of Kew Gardens was started early in September and consists of the construction of approximately 400 linear feet of rubble wall in mortar, capped by an imitation granite coping. It also includes the regulating and grading of lawn areas, side slopes and embankments, and the furnishing and planting of 44 American Elm trees.

When the work is completed the Forest Park side of Park Lane will have become a continuous promenade, shaded by American Elms planted in generous lawn spaces, from Union Turnpike to the Richmond Hill entrance at Myrtle Avenue. Rough and unsightly gashes in the banks bordering this walk have been completely removed and the planting space between sidewalk and curb grassed and planted with trees that should, in the course of time, afford an attractive, shaded walk of great beauty and value for this highly developed section of the borough. For the benefit of those seeking rest and quiet there will eventually be installed a sufficient number of permanent benches at suitable spots.

Myrtle Avenue Bridge

Contract No. 90424 was executed October 17th with John J. Kennedy, Subway Contractor, for the Construction of Bridge over Myrtle Avenue in Forest Park. The estimated cost of this improvement is \$46,796.00, chargeable to Code 407 X.

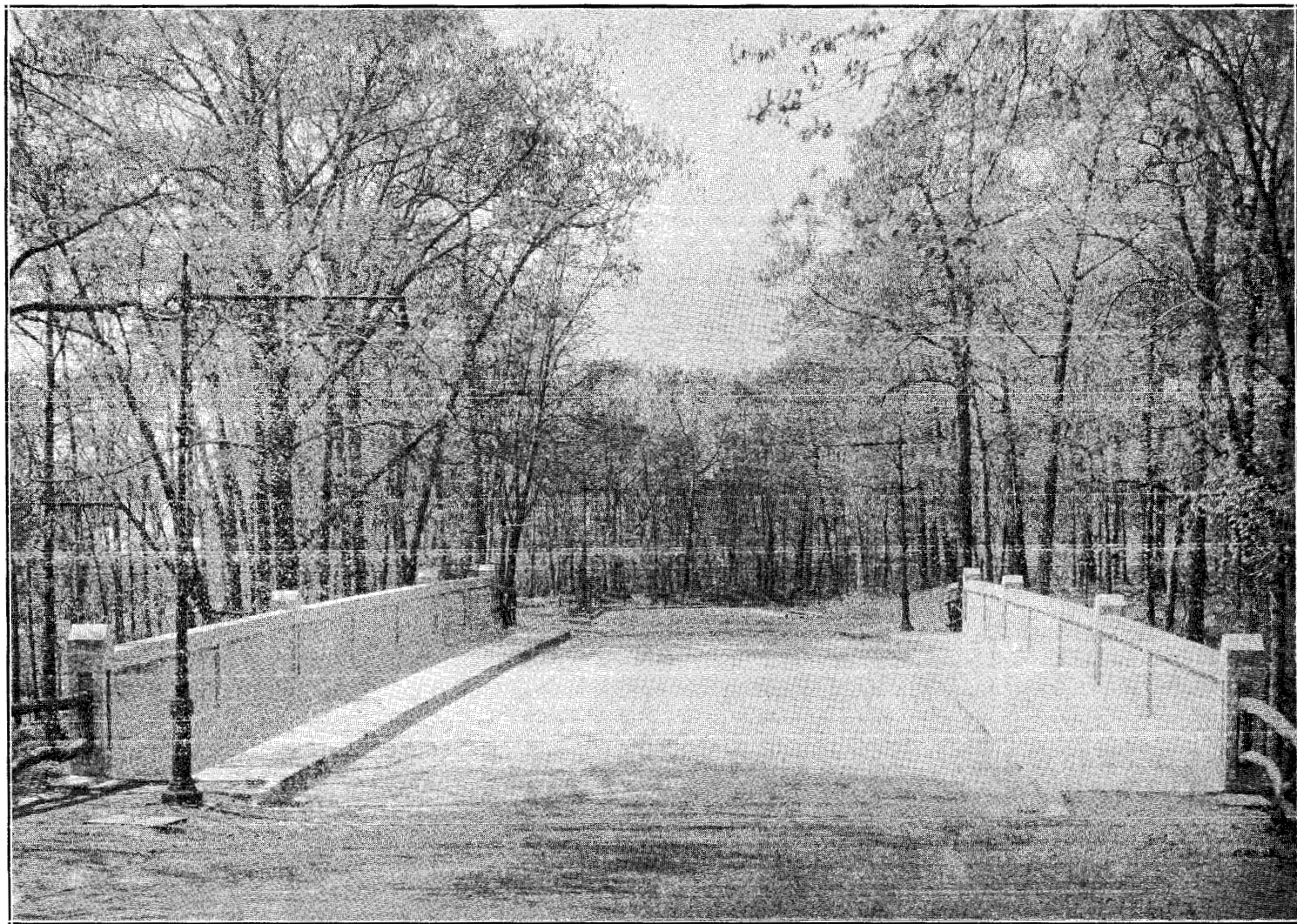
The work consisted in removing the old iron bridge and constructing a new steel and concrete bridge, with 30 foot roadway, to meet existing traffic conditions.

The new structure is 139.9 feet long and approximately 44 feet wide, providing a 7-foot sidewalk on each side of a 30-foot roadway. Steps provide access from the south side of Myrtle Avenue.

The old abutments were retained and faced with concrete, and new footings provided for columns and piers under the girders. The entire steel surface structure and columns were given a concrete casing, reinforced concrete roadway and footwalks. New curbs were constructed and sidewalk and iron fence provided for on Myrtle Avenue.

Plans and specifications were prepared, and the work of supervising carried out, by the Department of Plant and Structures.

This improvement will complete the work involved in reconstructing the three bridges which carry Forest Park Drive over Myrtle Avenue and over the Long Island Railroad. Weather conditions having delayed the work this contract will not be completed until the early Spring.



Bridge Over L. I. R. R. in Forest Park

Jackson Pond, Completion of Richmond Hill Entrance

Contract No. 90810 was executed October 9th with Connor Bros. for the completion of the Richmond Hill entrance, including the Jackson Pond Improvement, at an estimated cost of \$17,880, provided for in Codes NDP 407 T and 420 F.

The work consists of constructing a wall approximately 680 feet long around Jackson Pond which is situated at the west of Memorial Drive along the Myrtle Avenue frontage of the park.

The proposed pond will be approximately 272 feet long by 84 feet wide; it will be surrounded by an asphalt mastic walk, about 720 feet long, which will provide access to ramps on the northerly and southerly sides of the pond. The ramps will be about 50 feet wide, constructed of reinforced concrete, and given a broomed surface. The water level of the pond is controlled by an 8-inch iron run-off and a cleanout pipe and valve.

When this improvement is completed the Richmond Hill entrance will have been developed to a point where a study may be made for the proper planting and grading of this area.

Improvement of Drainage in Upland Park

During the Fall of 1928 Goose Pond, located in Upland Park, Jamaica, became flooded following a very rainy season, overflowed its banks, and inundated the entire area between the pond and Gilman Avenue, breaking over the curb and into the gutter. Complaints from house owners in the vicinity made immediate relief imperative. A dyke of sandbags and clay was added to the submerged banks and the inundated area pumped dry. The work was completed in about eight days by the use of a centrifugal pump loaned to the department through the courtesy of Connor Bros.

An attempt to provide a drainage was made by constructing a large seepage basin, but the soil proved impervious and a connection to the sewer had to be provided. This work remedied a very unsatisfactory condition which was apt to recur during rainy seasons.

Wayanda Park, Tennis Courts, Curbing

A concrete curb was constructed around the tennis courts in Wayanda Park in order to facilitate the flooding of the courts in Winter for skating. A seepage basin was also constructed in order to provide the necessary drainage with this improvement. The work was performed by departmental labor.

Map of Hillside Park

During the Winter of 1928 this bureau was engaged in compiling a topographical map of Hillside Park. This newly acquired tract, located on high ridge between Hollis and Queens Village, is made up of timber land and acres of scrub and birch, with many pot holes and several small ponds. The map, when completed, will form a basis for future surveys and layouts as soon as funds are provided for carrying out the work.

Washington Avenue Pavement, Jacob Riis Park

Though this contract, No. 91709, was executed with the Sprague Construction Co. on February 8th, 1929, the work of drawing up plans and specifications, making surveys, etc., was all performed in 1928. The estimated cost for this project is \$58,306.00 which is provided for in Code NDP 411 D.

The work consists of regulating, grading, and paving the south roadway of Washington Avenue for a distance of approximately 4,932 feet from a point 100 feet west of Mohawk Street to the westerly side of the transverse road.

The roadway pavement is laid on a roadbed retained between reinforced concrete curbs 7 inches wide and 20 inches deep. The roadway pavement is 8 inches in depth of 1:1 $\frac{1}{2}$:3 reinforced concrete 24 feet wide, laid in sections 12 feet by 30 feet, separated by joint material.

The reinforcement consists of $\frac{3}{8}$ -inch transverse rods, 12-inch approximately center to center, and $\frac{1}{2}$ -inch longitudinal rods spaced approximately 12 inches center to center, with a double row of reinforcing around the entire edge of the slab; the corners reinforced by the addition of radial bars at each corner. Each slab will be brush finished and given a 2-inch tooled border.

Five (5) crossings are provided between the new south roadway and the present north roadway; six (6) water connections are carried under the old and new roadways in order to provide water for park activities in the future.

Construction was begun during the winter by placing the fill so that it might properly settle during the rainy weather. The placing of concrete will follow as soon as the weather permits. Construction will probably have been completed by the early summer.

Sidewalk, Transverse Road, Neponsit

Though this contract, No. 91712, was executed March 7th, 1929, with Walsh Bros. of Long Island City, the drawing up of plans and specifications, making surveys, etc., was actually performed in 1928.

The estimated cost of this improvement is \$7,900.00 which is provided for in Code NDP 411 C.

The work consists of constructing a sidewalk 8 feet wide and approximately 2,000 feet long, from the ferry to Washington Avenue.

The sidewalk is constructed in 8-foot slabs on concrete sills or under curbing 6 inches by 14 inches deep. The walk is six (6) inches thick, 5 inches of 1:2:4 concrete and 1 inch of 1:1½ wearing surface.

This improvement will provide for pedestrians who have been using the new concrete roadway as a footway; it will give easy access to a portion of Rockaway which is drawing more visitors yearly.

Construction was delayed until the new city water main supplying this section was installed. This work will be carried on during the early Spring.

Astoria Park Tennis Courts

Though this contract, No. 91699, was executed January 30th, 1929, with William T. Dippel, Inc., the plans, specifications, surveys, etc., were actually made in 1928. The estimated cost is \$6,435.00 which is provided for in Code NDP 412 D.

The work consists of constructing six (6) tennis courts adjacent to the Shore Road, covering an area approximately 60 by 660 feet. These courts are completely enclosed by a galvanized chain link fence 12 feet high, of No. 11 gauge, 1¾-inch mesh. Each court is completely enclosed and provided with gates 3 feet by 7 inches. Net posts and nets are included in this contract. The courts are to be surfaced with clay 4 inches thick, and should be completed during the early Summer.

This improvement has been much sought by residents living in the vicinity of the park and will add another attractive outdoor feature to this park. The nominal sum of \$1.00 is now being charged for permits to play on park courts.

Funds will be sought at an early date for the construction of suitable shelter and locker house for the storage of nets and court apparatus, as well as for the convenience of those patronizing the courts.

Astoria Park Wading Pool

Though this contract, No. 92095, was executed February 18th, 1929, with Connor Bros., the plans, specifications, surveys, etc., were actually made in 1928. The estimated cost is \$19,697.75 which is provided for in Code NDP 412 D.

The work consists of constructing a wading pool by completing approximately 475 linear feet of concrete wall, approximately 5 feet 3 inches high, constructing an 8-inch cast iron spillway and cleanout,

and connecting it with the 12-inch drain already in place; also the construction of four (4) reinforced concrete ramps, approximately 50 feet wide, which will give access to the pond. A sand and gravel cover will be placed on the bottom of the pool in order to insure cleanliness.

There are also included in this contract the construction of 600 linear feet of 12-foot concrete walk and 800 linear feet of 10-foot concrete walk, and one flight of concrete steps to give access to the rear of the pond.

This work is part of the development of the northerly section of Astoria Park. Together with the tennis courts which are under another contract this work follows the completion of the Shore Road Improvement. This improvement also includes water supply and the erection of a drinking fountain, topsoiling and sodding the adjoining area.

Sidewalk Along West Drive, Myrtle Avenue to Golf House, Forest Park

Though this contract, No. 92224, was executed March 15th, 1929, with Connor Bros. the plans, specifications, surveys, etc., were actually made in 1928. The estimated cost is \$11,610.00 which is provided for in Code NDP 420 G.

The work consists of regulating, grading, and constructing approximately 2,900 linear feet of asphalt surfaced concrete walk, 8 feet wide, extending from a section of walk already constructed leading from Myrtle Avenue at Hanson Place.

The walk follows the westerly side of the drive, mounting the slope adjacent to the cemetery, crossing the west drive at a point approximately 1,600 feet south of Myrtle Avenue; it then describes a wandering course along a wooded slope until it crosses the northern branch of West Drive, following the southerly branch around to the golf house where a crossing is provided to a paved strip directly in front of the building. Another crossing is provided to the walk bordering the south side of the Main Drive.

This improvement provides access from Myrtle Avenue to the golf house and will replace an abandoned walk along the old transverse road which will be eliminated in order to remove the menace to the public and make the golf links a complete unit.

The walk consists of 4 inches of base material, 4 inches of 1:2:4 concrete and 1 inch of asphalt mastic wearing surface, edges topsoiled and sodded.

Improvement of Area Around Greenhouse, Forest Park

Plans, specifications, surveys, etc., for this contract, No. 92228, were made in 1928 though the date of execution of the contract with the

Gifford Construction Co. was February 28th, 1929. The estimated cost is \$17,233.50, provided for in Code NDP 420 B.

The work called for in this contract consists of constructing a concrete road 20 feet long, paving various areas around the Greenhouse, and constructing drains and catch basins. Approximately 1,300 linear feet of drain will be laid.

The concrete pavement is 8 inches thick and is reinforced with mesh 65.3 lbs. per 100 square feet; it is finished with a broomed surface.

Low curbs are provided at four points to permit constructing parking spaces on each side of the entrance road from the Main Drive.

This road will provide paved access to the shops and storehouse and the greenhouse workrooms; it will also eliminate an unsatisfactory drainage condition that has existed in this area.

The improvement will be extended after the final unit of the shop area is completed by paving the court yard and constructing a ramp leading to the rear of the new buildings.

Sidewalk Bordering Transverse Road, Forest Park

Contract No. 82166 was executed February 26th, 1929, with the Brugel Contracting Co. at an estimated cost of \$4,148.00 provided for in Code NDP 407 S. Plans, specifications and surveys were made in 1928.

This improvement consists of constructing a concrete walk 8 feet wide adjacent to the east side of the transverse road (Freedom Avenue Drive) from Myrtle Avenue to Park Lane South, Ashland Street). The walk is approximately 1,500 feet long, laid in 8-foot squares with a 2-inch tooled border.

Its construction was made necessary due to pedestrians using the new concrete road instead of following the old tar and gravel walk which followed some very steep grades and had become badly worn and disintegrated in many places.

Improvement of King Park, Jamaica

Contract No. 92223 was executed with Connor Bros. March 6th, 1929, at an estimated cost of \$11,540.00, provided for in Code NDP 426. Plans, specifications and surveys were made in 1928.

The work involves the construction of approximately 1,800 linear feet of hexagonal tile walk, 10 and 12 feet wide, in the area north of King Mansion and adjacent to Alsop Street, Shelton Avenue and Ray Street; also the paving of the area around the bandstand. In addition 20 percolating basins will be constructed in order to drain this area

which is much below the grade of the surrounding streets and at times flooded.

This work will complete the paving of the walks in this small park and provide paved walk for pedestrians wishing to cross the park diagonally.

Kissena Lake, Improvement of Easterly End

Contract No. 92193 was executed with William Probeck on February 26th, 1929, at an estimated cost of \$3,549.15 provided for in Code NDP 416 A. Plans, specifications and surveys were made in 1928.

The work consists of regulating and grading the area to the east and west of the new roadway and about the bridge, furnishing and installing approximately 200 linear feet of open joint 6-inch vitrified drain, and topsoiling, seeding and sodding in this area created by the dredging of the lake bottom.

This contract will partly complete the landscaping of this area, which, when finished, will be one of the most attractive localities in Kissena Park.

Kissena Park, Drainage Improvement

The westerly section of Kissena Park, adjacent to Jamaica Avenue, consists of a low swampy area traversed by the old Stewart Railroad embankment. Due to obstructions outside the park area the water level of this marsh has risen during the last year to such an extent that complaints were made by residents in the vicinity. Funds were sought to fill in this entire area, with the result that the Board of Estimate and Apportionment appropriated \$25,000 to prepare the area for fill and control the water courses for the purpose of draining the marsh as far as possible.

The efficiency of this contemplated work will depend entirely on the cooperation of the Borough President's departments in clearing the channel of the outlet to the west of Jamaica Avenue. Conferences between this department and the Department of Sewers have resulted in a plan that should relieve the situation. Surveys have been made and plans are being prepared to submit to the Board of Estimate and Apportionment for approval.

Approaches to Bridges, Forest Park

Plans and specifications were submitted to the Board of Estimate and Apportionment for the reconstruction of the approaches to the bridges along the Main Drive in Forest Park.

Due to lack of funds the plans include only the reconstruction of the bridges crossing the L. I. R. R. The work consists of flaring the driveway from 26 to 30 feet, adjusting the approaches, and constructing a wall at the easterly end of the bridge crossing the Rockaway Beach Division of the L. I. R. R. Funds will be sought to make the necessary adjustments to the new bridge under construction over Myrtle Avenue.

Plans and Specifications Are Under Preparation for the Following Improvements

- Construction of walks and fences in Rainey Park.
- Improvement of Baisley Park.
- Seeding and sodding the West Drive, Forest Park.
- Construction of sidewalk along the Forest Park Drive, from Union Turnpike to Metropolitan Avenue.
- Construction of parking space along Washington Avenue, Neponsit.
- Improvement of Upland Park.
- Improvement of the following triangular plots and malls:

Triangles

- Roosevelt Avenue, Skillman Avenue and 55th Street, Woodside.
- Borden Avenue, Laurel Hill Boulevard and Laurel Place, Laurel Hill.
- Roosevelt Avenue, Woodside Avenue and 5th Street, Woodside.

Mall Spaces

- 25th Avenue (Hoyt Avenue), Shore Road to Barclay Street, Astoria.
- 25th Avenue (Hoyt Avenue), 2nd Avenue to Goodrich Street, Astoria.

The Following Tabulation Indicates the Work Under Contract During 1926

Freedom Avenue Road, Forest Park	\$23,581.00
Transverse Road, Jacob Riss Park	49,234.00
Chain Link Fence, Victory Field	6,411.60
Repairs to Sea Wall, Rainey Park	5,148.00
Triplex Pump Installed, Forest Park Golf House	865.00
	<hr/>
	\$85,239.60

The Following Tabulation Indicates the Work Under Contract During

1927

Shore Road Improvement, Astoria Park	\$248,122.25
Clearing and Dredging Kissena Lake	16,800.00
Sidewalks, Vicinity Comfort Station, Kissena Park	4,969.00
Bulkhead and Jetties, Rockaway Park	176,600.00
Fences, Linden and College Point Parks	11,264.00
Sidewalks, Park Lane, Forest Park	14,762.00
West Drive Paving, Forest Park	60,740.00
Improvement, Anawanda Park	17,895.00
Sidewalk, Victory Field, Forest Park	2,839.65
Roadway, Paths, Rustic Bridge, Kissena Park	10,820.00
Repairs to Steps and Ramps, Rockaway Park	600.00
Repairs to Ramps and Sidewalk, Rockaway Park	550.00
Erection of Temporary Fence, Boardwalk, Rockaway Park	922.14
Clearing Beach and Removing Wall, Crocheron Park	870.00
Construction of Beach, Crocheron Park	800.00
Replacing Electric Light Stand, Boardwalk, Rockaway Park	125.00
Total	<u>\$478,679.04</u>

Bids Opened by Park Board

Richmond Hill Entrance, Forest Park	\$31,512.00
Glendale Entrance, Forest Park	24,595.00
Crocheron Park Wall	7,400.00
Total	<u>\$63,507.00</u>

Work Prepared and About to be Presented to Board of Estimate and Apportionment

Myrtle Avenue Bridge, Forest Park	\$75,000.00
Bowne Park Improvement	10,000.00
Approaches to Bridge, Main Drive, Forest Park	12,500.00
	<u>\$97,500.00</u>

Recapitulation

Work Under Contract, 1926	\$85,239.60
Work Under Contract, 1927	478,679.04
Bids Opened by Park Board	63,407.00
Work Prepared for Board of Estimate and Apportionment	97,500.00
	<u>\$724,825.64</u>

LANDSCAPE ARCHITECTURE SECTION

The work of this bureau, accomplished under the direction of Anthony V. Grande, Assistant Landscape Architect, includes the preparation of plans, specifications, estimates of cost, supervision and inspection for the development and improvement of the landscape, architectural and related features of the parks and playgrounds, necessitating studies on the ground and in the office.

At hearings and consultations with civic and memorial committees, the Art Commission and City Departments, the Assistant Landscape Architect Co. operates with the Commissioner through consultations and by investigations and reports.

A detailed report of the work performed by this bureau during the years 1927 and 1928 follows:

1927

Astoria Park

The area about the War Memorial Monument was shaped, topsoiled, sodded, and a variety of shrubs planted. The work was undertaken by departmental labor under the direction of the Assistant Landscape Architect.

Bowne Park

A design for the improvement of the westerly section of the park was prepared which includes the following features:

The construction of a rubble stone wall around the present pond, with four concrete ramps to provide access to the pond, so that it may be used by children for boat sailing and wading purposes. In the Winter months the pond is to be used for ice skating. In the center of the pond there is to be erected an ornamental iron fountain. Temporary gravel walks are provided around the pond, leading to the various entrances of the park. Besides the necessary grading a water supply and drainage system are to be installed.

The estimated cost for this improvement is \$10,000.

Forest Park

(a) A preliminary plan was prepared for the construction of an eight-foot concrete walk adjacent to the running track in Victory Field, leading from the main entrance at Woodhaven Boulevard and Myrtle Avenue and from Woodhaven Boulevard and the Main Drive in the park.

(b) The erection of a combined Golf House and Comfort Station located at the Glendale entrance to the park.

The construction work, including the plumbing and heating, was started in the early Fall and is expected to be brought to completion about the latter part of January, 1928. The estimated cost was \$28,000.

The building is 31 feet wide, 50 feet long and 25 feet high; it provides for Locker and Shower Rooms for men and women, an Attendants' Room, and a Lunch Room for concession in the main story. The basement provides for men's and women's Locker Rooms, Boiler Room, and toilet facilities not only for golfers but also for the general public.

(c) Plans, specifications and estimate of cost were prepared for the erection of two new Greenhouses to replace the present No. 1 and No. 2 Greenhouses. The size of each Greenhouse will be 25 feet wide by 102 feet long by 12 feet high.

The sum of \$40,000 from the Corporate Stock Fund was authorized by the Board of Estimate and Apportionment for the construction, heating and plumbing work, including the demolishing of the two existing Greenhouses.

The plans were submitted to the Building Department and approved. The contract drawings and specifications were then submitted to the Board of Estimate and Apportionment for its approval.

Construction work will be started in the Spring of 1928.

(d) Plans, specifications and estimate of cost were prepared for the erection of a Garage and Store Room (addition to Service Building), which includes the construction, plumbing and heating work.

The sum of \$50,000 from the Corporate Stock Fund was authorized by the Board of Estimate and Apportionment for the construction of the buildings. The plans were submitted to the Department of Water Supply, Gas and Electricity, and the electrical work was approved. The plans were also approved by the Building Department. The contract specifications and drawings were then submitted to the Board of Estimate and Apportionment for its approval.

The size of the Garage Building is 31 feet wide, 104 feet long, and 18 feet high. The size of the Store Room Building is 31 feet wide, 60 feet long, and 22 feet high. The main story provides for store room and office, and the basement for storage and boiler room.

The buildings will be constructed of concrete foundation walls, the upper walls to be of red-faced brick with limestone cornices and copings, and tar and felt roofs, to match the present buildings.

(e) Preliminary plans were prepared for the construction of a 30-foot roadway connecting the present main drive at the Golf House and extending to Myrtle Avenue (Glendale entrance).

(f) Plans and specifications were prepared and approved by the Department of Water Supply, Gas and Electricity, for the installation of new electrical lighting fixtures in the present Golf House to replace the present antiquated ones.

The contract in the amount of \$638.00 was issued in the open market, and the work was carried out and completed in March.

(g) Preliminary plans were prepared for the construction of an 8-foot sidewalk and the planting of 97 American Elm trees along Park Lane from Union Turnpike to 115th Street.

Specifications for the furnishing and planting of the trees were also prepared in connection with the contract drawings and an inspection of same made by the Assistant Landscape Architect. The planting was carried out and completed in the Fall.

King Park

(a) Plans and estimate of cost were prepared for a new steam heating system for the King Manor House to replace the present hot-air furnace.

A new steam boiler with the necessary accessories, and four radiators including piping and connections, were furnished and installed by departmental labor under the direction of the Assistant Landscape Architect. The estimated cost was approximately \$400.00.

(b) Plans, specifications and estimate of cost in the amount of \$2,500, funds for which were authorized by the Board of Estimate and Apportionment, were prepared for repairs to the King Manor House.

The nature of the work was as follows: Construction of side and rear porches, repairs to front porch, including the front cornice of the main building, new shingle roofs, gutters and leaders.

The contract specifications and plans were submitted to the Board of Estimate and Apportionment, and approved.

Bids were received by the Park Board and rejected owing to the bids being in excess of the estimated cost.

In order to expedite the necessary and urgent repairs to the building three contracts in the open market were issued in the aggregate amount of \$2,492. Work was immediately started and will be completed about February 1, 1928.

(c) Staked out the lines for two temporary walks, eight feet in width, in the northerly section of the park. The work was done by departmental labor under the direction of the Assistant Landscape Architect, and included the necessary regulating, grading, sodding and spreading of bluestone screenings.

Linden Park

(a) The erection of the Comfort Station, which included the construction, plumbing and heating work, was completed under the supervision of the Assistant Landscape Architect and opened to the public in June. The estimated cost of the building was \$24,050.

(b) Plans, specifications and estimate of cost were prepared for the planting of evergreens and deciduous shrubs around the Comfort Station.

A contract in the amount of \$560.00 was issued in the open market, and the work was completed in the Spring.

Leavitt Park

Permission was granted by the Commissioner to contractors to deposit about 20,000 cubic yards of dirt fill in the westerly section of the park area, without cost to the city. The necessary grading for the improvement of the entire park, as originally estimated, would require about 50,000 cubic yards of fill.

Miscellaneous

The Assistant Landscape Architect represented the Commissioner in the Independence Day Athletic Celebration held in the various parks of the borough. Medals and badges were distributed among the committees in charge and awarded to the winners of the various events. These games, which were especially arranged, were participated in by both boys and girls.

1928

Astoria Park

Prepared specifications and supervised the work for exterior repairs and painting of the frame house, also the painting of the portable garage. Bids were received and the work was started and completed in the Fall. The cost of this undertaking amounted to \$393.00.

Directed the work of pruning all the trees and shrubs, of removing dead matter and transplanting the deciduous shrubs from the crowded beds to other places in the park where they were required. This work was done by departmental labor.

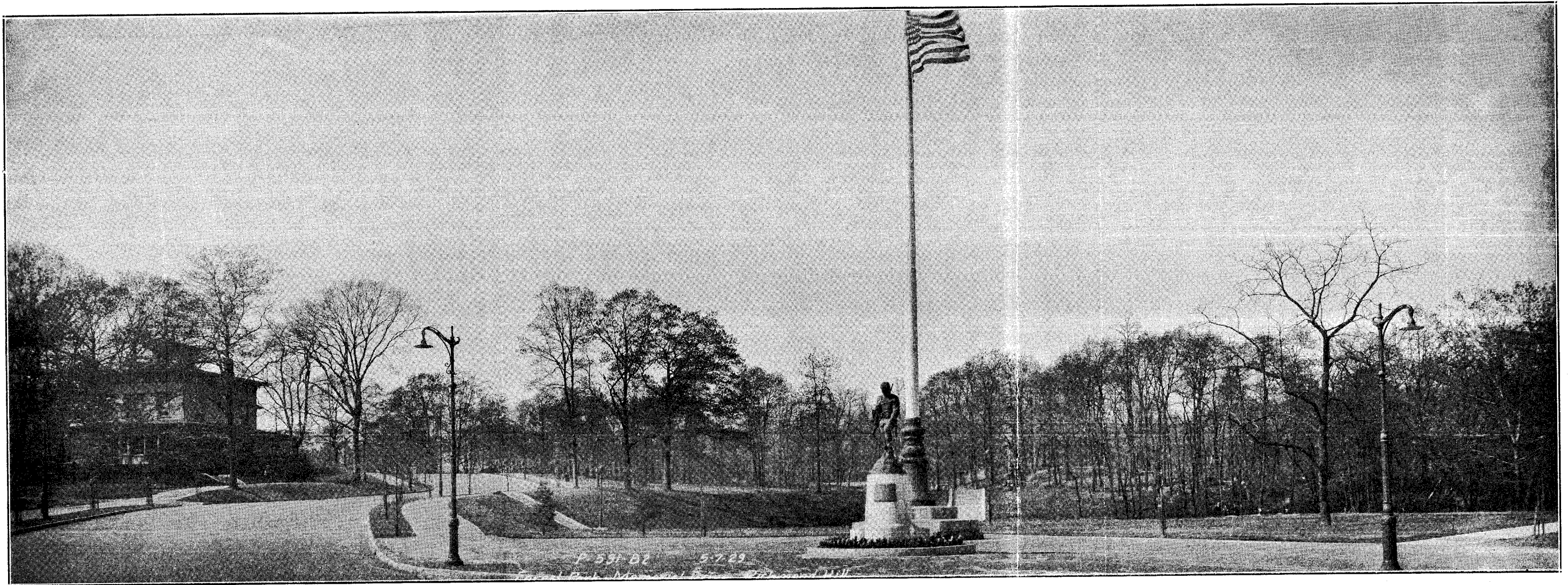
Baisley's Pond Park

Inspected the alterations, repairs and painting of the frame Boat House done by the Concessionaire. Water and gas lines were also installed.

Forest Park

(a) Supervised the construction of the new and the demolition of the old greenhouses referred to in the 1927 report. The old plumbing system which was connected to a cesspool was discontinued and the line connected to the street sewer in Woodhaven Boulevard. The work was started and completed in the Fall at an estimated cost of \$21,915.00.

(b) Supervised the construction work, including the electrical, plumbing and heating work of the Garage and Store Room referred to



"Buddy" Monument—Forest Park

in the 1927 report. The work was completed in December at an estimated cost of \$36,755.50

(c) Prepared specifications and supervised the work for exterior repairs and painting of the frame house at 109th Street and Myrtle Avenue. Bids were received and the work was started and completed in the Fall. The estimated cost was \$1,490.00.

(d) Supervised the construction work, including the electrical, plumbing and heating work, of the Golf House and Comfort Station located near the Glendale Entrance. The work was completed in the Fall, at which time the Comfort Station was opened to the public. The estimated cost was \$28,000.00.

(e) Prepared specifications and supervised the work for the exterior repairs and painting of the frame house at 102nd Street and Park Lane South. Bids were received and the work was completed in the Fall at an estimated cost of \$300.00.

(f) Prepared plans and specifications for the erection of new plant benches in Greenhouse No. 4. The plans were approved by the Board of Estimate and Apportionment, bids were received by the Park Board, and the contract awarded the latter part of December. Work will be started in February, 1929. The estimated cost was \$2,369.00.

(g) Prepared plans and specifications for the installation of two gasoline pumps and two storage tanks for the new garage. The plans were submitted to the Board of Estimate and Apportionment for approval in December.

(h) Plans and specifications were prepared, and approved by the Department of Water Supply, Gas and Electricity, for the installation of an electric lighting system in the Greenhouses. The contract in the amount of \$675.00 was issued in the open market, and the work completed in May.

(i) Supervised the installation of the canvas curtains in the Show House of the Greenhouses. An open market order was issued in the amount of \$700.00; the work was completed in June.

Highland Park

Prepared plans and specifications, and supervised the work, for repairs to the roof of the Bandstand. Bids were received, and the work was started and completed in the Spring. The cost was \$130.00

Jackson Park (Weeping Beech)

Prepared specifications and supervised the work of exterior repairs and painting of the frame house, also the painting of the garage. Bids

were received, and the work was started and completed in the Fall. The cost was \$490.00.

Supervised the work of making general exterior repairs, also construction of entire new shingled roofs, for the King Manor House. Work was completed in March. The estimated cost was \$2,492.00.

Kissena Park

(a) Prepared plans, specifications and estimate of cost for the construction of reinforced concrete steps. Plans were submitted to and approved by the Art Commission, Department of Water Supply, Gas and Electricity, and the Board of Estimate and Apportionment. The work was started in the Fall and will be completed next Spring. These steps will serve as a memorial to Theodore Foulk who bequeathed the amount of \$5,000 to the City of New York for a permanent improvement in the park.

(b) Plans were prepared for a temporary frame storage building, size 20 feet by 20 feet. The building was erected by departmental labor under the supervision of the Assistant Landscape Architect.

(c) Staked out and directed the planting of 29 white pines, about ten feet high, for "Memorial Knoll". The trees were removed from Forest Park and transplanted by departmental climbers and pruners.

Rainey Park

Staked out and directed the planting of 43 memorial elm trees. The work was done by departmental labor. The trees were originally planted on the mall spaces along Nott Avenue, but owing to the construction of the new subway along Nott Avenue the American Legion requested the Park Commissioner to transplant these and additional ones to their new location in memory of those who served and died in the World War from Long Island City.

Rockaway Park

(a) Prepared plans, specifications and estimate of cost in the amount of \$50,000 for the erection of an underground Comfort Station under the Boardwalk at Beach 116th Street. The work includes construction and electrical work, heating and plumbing. Plans were submitted to and approved by the Board of Estimate and Apportionment, the Art Commission, the Department of Water Supply, Gas and Electricity, and the Building Department. Bids were received by the Park Board the latter part of December. Work will start in the Spring of 1929.

(b) Plans and specifications were prepared, and the work supervised, for the erection of "Lookouts" for life guards. Three of the "Lookouts" were placed along the beach at Rockaway Park and two were placed in Jacob Riis Park. Work was started and completed the early part of the Summer. The cost was \$985.00.

The following designs were prepared for improvement and development in the various parks:

1. Concrete retaining wall and wire mesh fence bordering the cemetery in Anawanda Park.
2. Six tennis courts, wading pools and walks, in Astoria Park.
3. Roadways, walks, etc., for the southerly section of Baisley's Pond Park.
4. Rubble stone wall around pond and temporary gravel walks in Bowne Park.
5. Tentative plans and estimate of cost for new administration building in Forest Park.
6. Roads from main drive to Greenhouses and Service Buildings in Forest Park.
7. Walk along Main Drive from Myrtle Avenue to Golf House in Forest Park.
8. Rubble stone wall and walks around Jackson's Pond (Richmond Hill Entrance) in Forest Park.
9. Walk along Freedom Drive in Forest Park.
10. Twelve (12) tennis courts adjacent to Park Lane South in the vicinity of 90th Street, Forest Park.
11. Walks in the northerly section around the Bandstand in King Park.
12. Boundary fence and walls in Rainey Park.

Miscellaneous

Directed by the Commissioner to make an investigation and report, including an estimate of cost, for repairs to and restoration of the Soldiers Monument in Calvary Cemetery. A communication in reference to the above was received by the Park Commissioner from the office of the Mayor.

Assisted in the preparation of the corporate stock and tax funds request to the Board of Estimate and Apportionment for the proposed improvements in the various parks.

Represented the Park Commissioner in the Independence Day Athletic Celebration held throughout the parks of this borough.

MAINTENANCE SECTION

The following pages constitutes a detailed report of the work performed by the combined forces of gardeners, laborers and mechanics, under the direction of William M. Blake, Superintendent, during the years 1927 and 1928.

The work of the Maintenance Bureau is extremely diversified. It includes the mending of roads, repairing and reconstruction of buildings, construction and erection of fences, fountains, benches, tool houses, etc., conditioning of lawns, malls and triangles, planting of shrubs and flower beds in these areas and in grounds adjoining public institutions, such as hospitals, administration buildings, etc. It means the constant supervision and repair of rolling stock and other mechanical and motor equipment, the painting of fences, flagpoles, tree-guards, laying of water pipes for lawns, dismantling and repair of playground apparatus, removal of dangerous trees, boulders and litter from parks and benches, maintenance of tennis courts, golf links, picnic grounds, band stands and comfort stations, supervision of recreational activities at playgrounds, and at lakes and ponds during the ice skating season, at concert groves during the Summer months and so on. Show houses are maintained which attract thousands of visitors annually. A variety of interesting plants and trees of a tropical and sub-tropical nature are grown in the palm house, such as the palm, banana, fig, orange, lemon, cactus, etc. For the benefit of the public three unusual floral exhibits are given during the year—at Easter, Christmas and Thanksgiving Day. Upon conclusion of the shows the flowers are distributed to the hospitals of the borough.

In an effort to save expense and expedite certain improvements departmental labor is often employed on construction jobs which would ordinarily be given out for contract. At times these jobs are carried out at great personal risk, as for instance, when the installation of life lines at Rockaway Beach was undertaken.

Much could be done to reduce the time and energy consumed on jobs now handled by manual labor through the introduction of additional labor-saving motor equipment. More power lawn motors are particularly required, and a few up-to-date machines, capable of a variety of uses, such as a power cultivator for ploughing and harrowing and a crawler tractor equipped with broad wheel wagon, scarifier and plough-share which would simplify the drudgery involved in clearing debris, litter, hauling stumps, etc.

Follows a report of each year, park by park:

1927

Anawanda Park

A complete equipment of up-to-date playground apparatus was installed, new backstop for baseball erected and painted, and a temporary ball diamond laid out. Fifteen rustic benches were provided and one concrete drinking fountain erected.

An old building from Linden Park was removed and brought to Anawanda to be used as an office and tool room. One old building was taken down and the grounds cleaned up.

During the month of July repairs and replacements of the playground apparatus were made and new signs erected. In the latter part of September all equipment was removed to the Service Building so that the contractors could start work on the development of the park.

Ashmead Park

This park was cleaned from time to time and kept in condition for the children to use as a playground.

Astoria Park

Upon completion of the construction work involving new sea walls and roadways the banks along the drive were resodded and dressed. Suitable signs were installed along the drive, which was thrown open to the public on October 5th, and at other points in the park where they were required.

The interior and exterior of the Comfort Station were repainted, new screen doors built and put in place, and repairs made to the plumbing, drinking fountains, drains and catch basins. The plaza in front of the band stand was resurfaced with bluestone screenings, the bandstand itself rewired for electric illumination, and all railings scraped, releaded and repainted. The playground apparatus was repaired and new equipment installed. About 200 feet of wire fence was erected around shrubs and grassplots.

The large flagstaff was repainted and new halyards installed. The tool houses were rebuilt, and benches and stoves installed. The backstop on the baseball field was rewired and painted. Twelve rustic benches were erected and 450 benches were releaded and painted. The front and rear stoops of the caretaker's house were rebuilt and repainted, and repairs made to the window frames, sash cords, and roof.

There were eighteen days of good skating which brought a large attendance; twelve concerts were held during the season, attracting an

average attendance of 4,000 to 5,000 people. The baseball season, lasting from April 15th to September 18th, brought an average attendance on Saturdays, Sundays and holidays, of four to five hundred people. Among the notable celebrations and ceremonials held during the year at the bandstand were the following:

Mothers' Day, May 8th.

Boy Scouts' Rally, May 21st.

Dwyer Post, Veterans of Foreign Wars, and American Legion,
May 30th.

Sunday School Union of Long Island City, June 4th.

Ditmars Democratic Club, June 4th.

Riverview Heights Community Council, June 11th.

United Masonic Lodges of L. I. City, June 14th.

Owing to the fact that six new tennis courts and an additional lake are being constructed at this park it will be necessary to provide additional help to the present maintenance force which is already taxed to the utmost by the regular routine of activities.

Baisley Pond Park

The bridges over the north and south ends of the lake were repaired, and new rails and planking installed where needed. A new culvert for the walk at the east end of the park was built. New signs were constructed and erected about the lake. Plumbing repairs were made to the Comfort Station. Baseball backstops were overhauled and rewired. The baseball field was regraded and the base lines covered with steam ashes. A new coal box was built and painted, and twelve additional rustic benches provided. Repairs and replacements to playground apparatus were made.

There were seven days of good skating; twenty-two picnics were held, with an average attendance of from two to three hundred people. The ball field was in constant use by small boys. Attention is called to the sandy condition of the ball field, which explains why it is not used by the large teams. An improvement in this respect is sorely needed.

Bowne Park

The lake was cleared of all rubbish and undergrowth and benches were installed around the entire lake. New signs were erected, also a temporary shelter and tool house for the caretaker. Skating during the winter months was enjoyed by thousands.

College Point Park

The caretaker's office and tool house was repaired and painted. The flagstones around the park were reset. On the north, east and west corners of the park, 500 feet of asphalt pavement was laid in order to prevent washouts. Benches were repaired and painted from time to time, the fence around the fountain, and paper cans were painted.

College Point Memorial Gore

The cannons, memorial tablet and flagstaff, and all railings and tree boxes were repainted and repaired. A concrete safety zone on the west end of the gore was built, and a danger signal erected.

Poppenheusen Monument, College Point

A new wire rail fence was built and the posts painted.

Crocheron Park

The beach was cleared of rock and refuse and covered with sand so as to make it available to the public for bathing. Paper-burning baskets were made and signs erected with the name of the park. Samples were taken of the spring water on the beach and forwarded to the Department of Water Supply for analysis.

Flushing Park

The fountain, benches and paper cans were repaired and painted, also the fence around the soldiers' monument. Plumbing repairs were made to the large fountain and the drinking fountain.

Forest Park

Administration Building and Grounds

The grounds around the Administration Building were greatly improved by the construction of new cement sidewalks from and bordering the east and south side of Park Lane from Union Turnpike to within about 400 feet of Metropolitan Avenue. The slopes and banks bordering the walk have been terraced and resodded, also banks along Union Turnpike and the Drive leading to the office. New shrubs were planted, new flower beds were made and recultivated during the year for seasonal plants.

The recreation field was leveled, cleaned of brush, and the grass cut during the season. Baseball backstops were rewired and painted, and goal posts erected for soccer. Additional swings for children were provided and a new sand box built. Rustic as well as regulation park

benches were placed around the field. A new 55-foot steel flagpole was erected. The upper plaza was covered with bluestone screenings. Prior to the construction of the new sidewalk along Park Lane 16 feet of 8-inch tile pipe were laid and backfilled for the proposed new water connection to the building. General repairs were made to the plumbing and heating apparatus. New steps and ramps were built on the terrace.

Road and Drives

The main drives and culverts were under the constant care of the road gang. During the year the road leading through the Golf Links to Myrtle Avenue was repaired, resurfaced with tarvia and screenings. Forest Parkway was also repaired. This is an old road and subject to heavy traffic. The holes were repaired with tarvia and screenings in the early part of the season; in the Fall they were gone over again with Kyrox, which was very successful.

Directional, "Danger", and "No Parking" signs, also rustic and regulation benches were placed along the drives, including Woodhaven Boulevard and Freedom Avenue Drive.

During the Winter months all roads and walks were kept free of snow and ice.

Bridle Paths

The bridle path was kept in condition during the season, being harrowed and scraped and cleared of stones. Brush is being cleared for proposed additional bridle paths.

Memorial Tree Boxes

All memorial tree boxes were kept repaired and painted.

Bandstand

The music stand was rewired for electric light. The musicians' stands were repaired and all pipe railings and metal work scraped and painted. The roof and gutters were cleaned and repaired. New halyards were installed on the flagstaff. One set of announcement plates were renumbered and varnished. The plaza was resurfaced with bluestone screenings and the benches cleaned and shifted from time to time. New shrubs were planted, lawns reseeded and rolled, and the grass trimmed during the season. Fourteen band concerts were given during the year, all well attended.

Bridges

The bridges crossing the Rockaway and Montauk Divisions of the Long Island Railroad were completed by contracts and opened to the

public March 5th, 1927. An iron fence partition was built at the end of Bridge No. 1. Danger signals were erected at the approach to each bridge. The only remaining old bridge is No. 2, crossing Myrtle Avenue highway. On this considerable work was done, such as replanking walks, repairing wood block roadway, fastening, scraping and painting, the iron railing.

Comfort Station

The comfort station, located in the playground at Woodhaven Boulevard and Park Drive, was connected with new water supply leading from the Greenhouses. General plumbing and heating repairs were made, new screen doors built and hung, outside trim repainted, and new signs installed.

Playground

The drinking fountains and water connections were given a general overhauling; existing playground apparatus was repaired and new equipment erected. Rustic benches were built and placed where needed, fences were erected, burning baskets provided, and signs prepared and installed where required.

Playground No. 2

This playground, located at Myrtle Avenue and Dry Harbor Road, was fully equipped in the early part of the season, and then re-equipped later in the season because of the destruction carried out by young roughs.

Stables

Leaks in the roof were repaired, doors made, window sash repaired, and roof recovered.

Forestry Department Buildings

Altered partitions for the storage of automobiles, repaired and recovered roofs, repaired and hung doors, repaired window sashes, and replaced all broken glass.

Shops

All general carpenter work, repairing, painting, blacksmithing, sign-painting, plumbing, repairs to automobiles and rolling stock carried out in shop. Minor repairs were made to the building; window sashes, doors, locks and trim, were painted. New storage for paint supplies was built above the floor, also new storage in Carpenter Shop for the care of tools and shop supplies. Walls of the garage were whitewashed and the paint shop painted.

The following additional shop equipment was installed: 1 mortising and boring attachment, 1 Universal punching machine, 1 motor-driven concrete mixer, and 1 motor-driven paint spraying machine.

Garage

The nine trucks used in the Forestry Bureau were constantly under repair during the season. Four are in very bad condition and are to be disposed of and replaced by new ones provided for in the 1928 Budget. The spray truck was overhauled and painted with white enamel, lettered and striped. The two large trucks, used for general hauling, were overhauled and tightened up; the passenger cars were also repaired and tightened up. The following motor equipment was added: a one-ton Chevrolet truck, three Chevrolet coaches, one 5-passenger Packard sedan (a Ford runabout and a Studebaker sedan having been turned in as part payment), and one Fordson tractor.

Sheds

The wagon shed roof was covered and repaired; the tool house was also repaired and roof recovered. The buildings which house the automobile trucks were cleaned and the old benches removed to make room for the storage of tractor wheels.

The repair and care of automobile equipment was done by one auto machinist, one laborer, and the driver of the particular car under repair.

Mower Shops

At the close of the grass cutting season the lawn mowers were brought in from all activities, cleaned, repaired and adjusted, inventory taken for new parts, and requests made for new equipment. This equipment is constantly under repair, the work being done by two laborers.

Victory Field

All manner of athletic activities are conducted at this large oval which contains six baseball diamonds, two handball courts, and a running track. All the High Schools of the Borough, the A. A. U., the Boys' Club of New York and similar organizations utilize this field in holding their games and contests. The Boy Scouts come here for three days in the Fall to hold their annual jamboree. Bicycle races are held by the Long Island Wheelmen on the running track, and during the season the diamonds are used by such organizations as the following for "Twilight Baseball"; New York Telephone Co., Western Electric Co., American Express Co., the Knights of Columbus (Forest Hills Branch), the B.-M. T., the fire and police systems. Hockey and

soccer are popular, and when the field is flooded thousands come from all over the borough to enjoy the skating. On week-ends it is estimated that from one to two thousand people visit the oval to witness the sports.

Naturally a great deal of attention is given to the maintenance of this much used field. Men are constantly engaged in the general work of raking and rolling the track, fields, and parking spaces, reclaying the diamonds, flooding the oval, keeping the ice in good condition, erecting signs, repairing benches, levelling, rolling, and clearing the lower fields of stones, etc. The work also includes the building and repairing of wooden steps, rails, handball courts, backstops, burning baskets, etc.

Greenhouses

Concrete ramps built from potting house to yard, window sashes and doors repaired, wooden flower boxes of many sizes, stands, shelves, etc., constructed. Six hundred and ninety-two (692) feet of various sized galvanized iron pipe and fittings were laid to provide an irrigating system for the hotbeds, lawns and flower beds, recently constructed as an improvement to the greenhouse approach.

In March work was started on the new lawns, flower gardens, etc. The work involved excavating and hauling of stone from Golf Links for use in the new fountain. All surplus fill was removed for use at Victory Field in providing parking space. Topsoil was hauled for beds and lawns, grass seed sown, shrubs planted, and 9,000 plants set in the flower beds. Walks of 8-foot bluestone screenings were laid from the Greenhouse to Woodhaven Boulevard.

Golf House

Repaired deck of rear porch, railing, etc.; 200 feet of pine flooring laid, all seams whitelead; cornices and mouldings repaired where necessary; all roof flashlights repaired and painted. Ceilings of front and rear porch painted. New desk and keyboard built in cashier's cage; keyboard painted and numbered, lighting system overhauled. All old fixtures were removed and replaced with new; additional ones were provided as required. Flagstaff and cannon were painted, ground and beds cultivated, ledges and grass kept trimmed, signs were erected and the road in front of Golf House space marked for the parking of cars.

Golf Links

All clay boxes, signs, benches and green markers were repaired, painted and numbered; 60 feet of rails and benches were built and a bag rail erected at No. 1 tee for caddy pen. Paper burning baskets were distributed; all water connections and drinking fountains on the

greens were kept in good condition. Additional fittings were provided as the necessity arose.

The water hazards on Nos. 1, 5, 9 and 17 fairways were ploughed and drained; wherever possible cesspools were built and backfilled with stone during the season. The washout on No. 1 fairway was backfilled, rebuilt and seeded. During the Fall there were 2,000 lbs. of bone fertilizer distributed and all greens were covered with a mixture of sand and loam. During the season the fairways were kept clear of stone and the grass clipped and rolled. 800 caddy badges were issued, 1,800 seasonal and 17,690 daily permits.

Clearance was made for additional fairways, involving the removal of about 125 large trees and stumps.

Picnic Grounds

During the Summer months the picnic grounds are resorted to by a number of community organizations. A number of men were always engaged in the task of cleaning the grounds and providing the necessary tables and benches. Gradually these grounds will be equipped with permanent concrete fixtures which will eliminate a great deal of the work now done as under the present conditions it is necessary after each picnic to remove all the tables and benches in order to prevent loss and destruction.

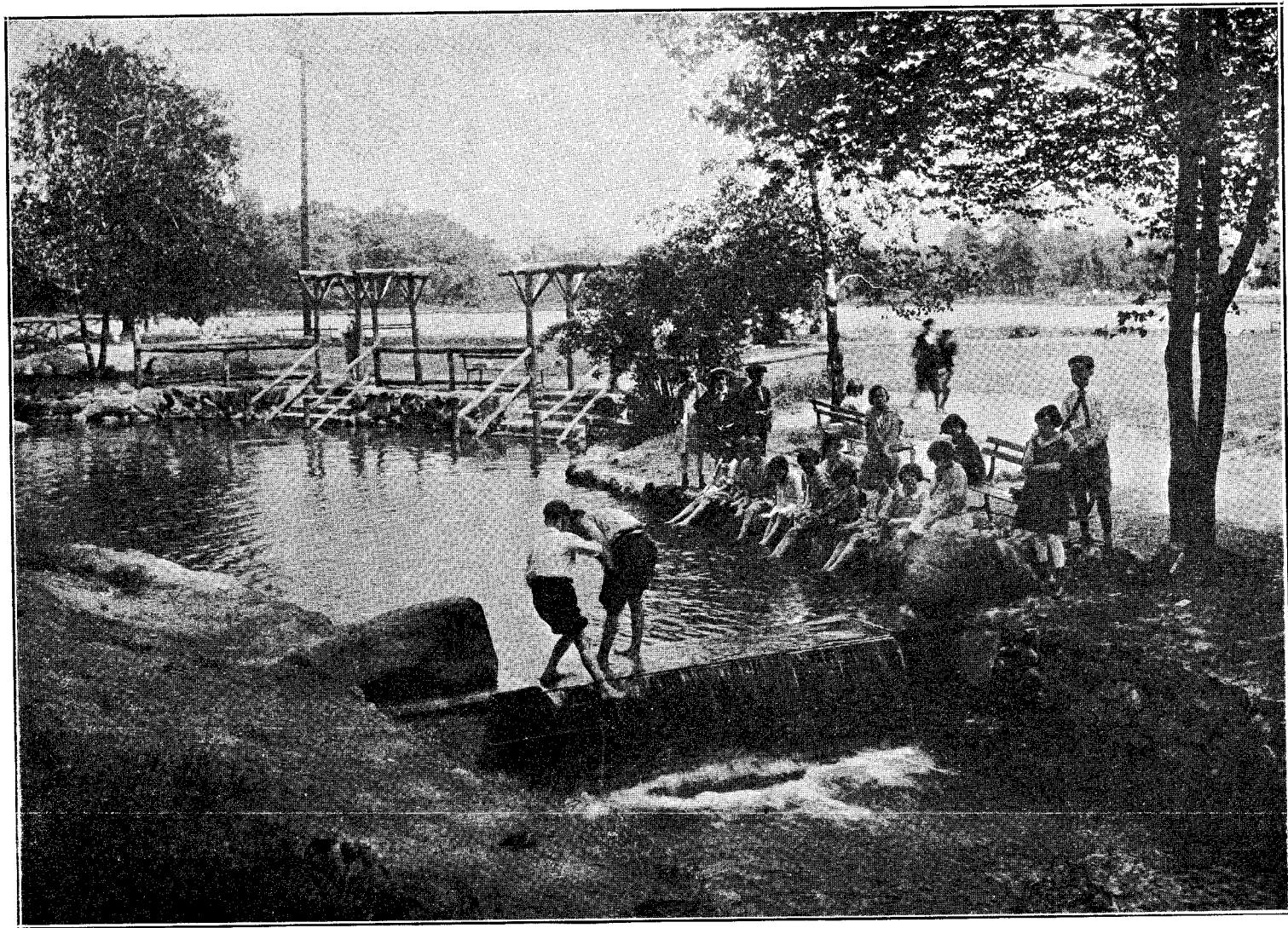
Highland Park

Sixteen hundred (1600) feet of road from Highland Park to Cypress Avenue was resurfaced by departmental labor. New and repainted signs were installed, all the playground equipment overhauled, and new additional apparatus erected. The outside trim of the Comfort Station and all exterior iron work thereon was releaded, painted, etc. General repairs were made to plumbing and drinking fountains. A new wooden deck was built on the bandstand, the seams and joints leaded and painted and then covered with a 16-ounce canvas, painted on both sides. Railings and mouldings were repaired and painted, and the memorial tablet cleaned and varnished. Fifteen cubic yards of bluestone screenings were placed on the walks and on the bandstand plaza.

Ten band concerts, bringing an average attendance of 4,000 people at each concert, were given during the season. Thousands were attracted to the park by the picnics held here annually. This year 138 picnic permits were issued.

Jackson Park, Weeping Beech

Repairs were made to plumbing, heating plant, shingle roof, cornice and trim; sash cords were renewed in all windows. New screens for



Wading Pool, Kissena Park

doors and cellar windows were made. The building was fumigated from top to cellar. Three hundred (300) feet of 5/16 galvanized link twisted chain was hung from post to post around the beech tree. Eighty (80) feet of wire mesh fence was erected along the easterly end of the property. Three large signs were repainted and lettered; sidewalks were levelled, and the grounds and lawns kept in perfect condition.

Lafayette Park

This park was kept clear of rubbish and weeds during the season.

Old Newtown Cemetery

The appearance of this street was considerably improved by leveling the grounds and erecting playground apparatus and drinking fountains. All the old headstones, which stuck up like eyesores, were laid flat and covered with soil.

King Park

Two paths, eight feet wide and a thousand feet long, were cut through the lawns and filled with bluestone screenings. The old wooden flagstaff was taken down and a new 55-foot steel pole erected. The Comfort Station was given a general overhauling by carpenters, painters and plumbers. A walk was built around the memorial monument and flagstaff, 1,000 hexagonal blocks being used in its construction. Four hundred (400) feet of hexagonal blocks in other sections of the park were reset. The bandstand railing and step rails were repaired and painted; a temporary shoring for the rear porch of the building was built. Repairs were made to the roof, and the chimneys reflashed. Repaired all doors and renewed all window sash cords in the entire building. The old heating plant was removed and the construction of a new steam plant commenced. Four hundred (400) square feet of concrete floor was laid in the cellar boiler room. The remodelling of the building was started by the contractor.

Ten band concerts were given during the season which brought an average attendance of 2,500 people.

Kissena Park

Rebuilt two pergolas, rustic fence and steps at the lake; lowered the lake spillway, repaired boat docks, railings, doors and windows, renewed sash cords. New screen doors were built and windows made for the Comfort Station. Five hundred (500) feet of one-inch galvanized pipe was installed for drinking fountain at Memorial Knoll, and flower beds planted.

The playground apparatus was overhauled and additional equipment erected. Laid 50 feet of 8-inch iron pipe with double catch basin to drain section above lake; recovered tennis court fence, using 1,800 feet of wire mesh. A retaining wall of rubble-stone, fifty feet long, was built along and parallel to the new walks. All memorial tree boxes were painted.

Ten band concerts and 85 picnics were held; there were 18 days of skating, and the eight tennis courts were continuously occupied throughout the season.

Leavitt Park

One laborer was assigned to the work of leveling dirt as it was brought in by the contractors. Fill was brought in to cover in an open sewer. A large sign was erected to warn the public that only clean fill would be permitted to be dumped.

Linden Park

New screens for windows and doors of the new Comfort Station were built and installed. The lake was cleared of rubbish and undergrowth and signs erected. The old office (tool house) was removed to Anawanda Park; the foundation of the old building was cleaned up, filled in, and repaved with hexagonal asphalt blocks. A new 55-foot flagstaff, of steel, was erected. The memorial cannon was painted and replaced in its plot. Fifty feet of overflow pipe were dug up, repaired and relaid. Built oak telephone box, large locker room and coal bin in basement. All iron fence rails, memorial tree boxes and paper cans were repainted. The lake and walks were cleared of snow during the Winter.

Rainey Park

The rail along the sea wall was repaired, scraped, red-leaded and painted. Back stops were rewired and painted. Demolished the old buildings at the northern end of the park, and removed all materials, rubbish, etc. Reset the flagstone sidewalk along the Vernon Avenue side of the park. The old flagstaff was removed and replaced by a new 55-foot steel staff. All playground equipment was overhauled. All memorial tree boxes and rails at Court House Square and along Nott Avenue were painted, the grounds kept clean and the grass cut during the season.

Rockaway Park

The boardwalk and benches were given considerable attention during the past year because of the havoc played by storms. The beach had to be cleared of thousands of clams which were washed up during these storms. The damage done to the ramps and steps leading to the

beach was repaired. New light standards were erected and all concrete light standards from 121st to 126th Streets, along the boardwalk, were shored and braced. All streets leading to the damaged portions of the boardwalk were barricaded. Two hundred (200) feet of new flooring were laid on the walk and all the nails throughout the entire length of the boardwalk hammered down. The caretaker's toolhouse and shanty was erected at the beginning of the season and removed when the season ended. Benches were releaded, painted and fastened to the walk. The beach shelters at 110th Street were repaired and painted. The sixteen large iron burning crates were removed, repainted and replaced for service.

Jacob Riis Park

The beach was kept clear of driftwood and rubbish. A new burning crate was placed in the parking space. The gores along Washington Avenue were supplied with plants of various kinds during the season.

Upland Park

The caretaker's house and tool house were repaired, leveled up and repainted inside and out. The lake was cleaned of undergrowth and rubbish; walks raised and covered with steam ashes, and resurfaced with bluestone screenings. A dike was built to keep the lake from flooding the lawn. Flower beds were laid. A cesspool, 13 feet by 10 feet was built and connected with a 6-inch overflow to the sewer. Two hundred (200) feet of temporary curbing was constructed on 85th Avenue, north of the park property, in order to keep the surface water from running into the park lake. Snow was removed from walks and lake during the Winter. As this park is located directly adjacent to Jamaica High School, which is one of the largest schools in the city, the attendance at the park during the skating season was very large.

1928

Anawanda Park

New walks, ball field, tennis courts and playground were constructed, and a new concrete wall with 10-foot galvanized iron fence erected on the north side of the park bordering the cemetery. Sod was laid along the walks and on banks, new playground apparatus erected, and 30 large park benches placed around the walks. New drains and water connections were installed; an old water meter was removed and an abandoned tap cut off. New drinking fountains were installed, keeper's shelter painted, and new signs erected. All playground apparatus and benches were removed to shop, inspected, repaired and painted during the Winter.

Ashmead Park

The children's playground was serviced from time to time by the shop gang.

Astoria Park

An unusual amount of work was undertaken and completed at this park during 1928. Excavations were made at this park during 1928. Excavations were made to connect 300 feet of 2-inch water main on the Barclay Street side so as to supply the keeper's house and the Comfort Station. The heating plant and plumbing work in the Comfort Station was repaired, new leaders, roof ridges and gutters were red-leaded, and the interior and exterior repainted. In the band stand all the iron work and the sounding board were repainted; a urinal and plumbing work was installed. The plaza was resurfaced with bluestone screenings; benches were redleaded, painted and repaired. Additional suitable signs were erected, also a number of portable danger lantern standards for the skating lakes. All memorial tree boxes were painted and the damaged ones replaced. Flagstaff halyards, blocks and rope spreaders were repaired, necessitating the installation of 300 feet of new halyard rope. The pole itself was painted.

Repaired drinking fountains and walks throughout the park; installed new seats and closets in the shelter. About 400 feet of pipe and wire fence was built around the shrubs and grass plots. The playground apparatus was kept in constant repair; backstops were wired and painted. The caretaker's house was painted and decorated throughout. General carpenter repairs were made to windows, doors, porch, etc.; new plumbing fixtures were installed in the kitchen.

The usual band concerts were given during the season and well attended; baseball, skating, picnics and many other community functions were held throughout the year and were very heavily attended owing to the fact that many Manhattanites are attracted to this park.

Most of the fifty-six acres of this park are made up of lawn and playgrounds; during the Summer months especially the burden of keeping the grounds in condition is too great for the limited force detailed, which consists of one gardener, one female attendant, and five laborers. The force should be increased by three laborers, and one male attendant assigned to the Comfort Station. Otherwise it is almost out of the question to properly maintain the many features of this park.

Baisley's Pond Park

General repairs made to plumbing, toilets and heating plant of the Comfort Station; new flue pipes, grates, etc., installed, window and door screens built and installed. Reglazed all window glass and painted

window trims. Erected new 55-foot steel flagstaff, new concrete fence posts and chain around the memorial. Four hundred (400) feet of wood rail fence erected along lake at boat house, baseball backstops rewired and painted, rustic bridge repaired, new stringers and guard rails built, floor repaired. Windows and doors in Boy Scouts' cabin repaired. All playground apparatus inspected and repaired; twenty new danger signs, lantern standards and many other suitable signs made and erected in park around the lake. Swamp land trenched, cleaned and oiled during the Summer months.

This park has an area of 75 acres, 40 of which comprise a lake. Many outings, picnics and concerts are held here during the season as this is the only park on the south side of the borough. The attendance at these festivities is always great. At present all the maintenance work is handled by a force of five laborers and one female attendant; an additional force of two laborers and one male attendant is urgently requested. The construction of a good baseball diamond would be an added attraction to the park, and is strongly recommended.

Bowne Park

Attention was principally given to cleaning up the accumulation of underbrush and rubbish, removing stones and brush from the shallow parts of the lake, pruning and removing dead trees, erecting more suitable signs, etc. The shelter and tool house was painted and the southwest end of the park was cleared of trees and brush in order to continue the sidewalk.

Four of the eleven acres of this park is given over to a lake which is heavily patronized in the Winter by skaters. The park is in charge of a laborer who at present has no suitable shelter. The removal of all underbrush from the lake and the construction of a sidewalk around the entire park, as well as around that portion which borders the lake, would be a worth while improvement.

College Point Park

The construction of a new steel fence around this park was a much needed improvement. The fence around the fountain has been redlead and painted to match the new outer fence. New halyard ropes were installed and the flagstaff repaired and painted. All benches were likewise repaired and painted.

College Point Memorial

The fence around this gore was repaired and painted; the plaza around the memorial tablets concreted and the flagstaff and memorial tree guards painted. The cannon stands were also repaired and reset.

Poppenheusen Monument

The old wooden fence posts have been replaced by 44 concrete posts with chain connecting the posts.

The care of this monument, the gore at College Point, and College Point Park is handled by one gardener. It is recommended that during the months of July, August and September, an additional laborer be assigned here.

Crocheron Park

Erected tool house and shelter for keeper, ashes supplied for the roads, suitable signs erected around park and danger signs around the lake. Four dangerous old buildings were demolished and the good lumber and window sashes removed to the shops.

The beach and lake were patrolled by two laborers during the bathing and skating season, working in two shifts—from 8.00 A. M. to 4.00 P. M. and from 2.00 P. M. to 10.00 P. M.

The new dam and floodgates on the east end of the lake was an excellent improvement as it provides the community with a beautiful lake in Summer and a fine skating ground in Winter. Five concrete posts were installed on the northeast end of the lake to keep automobiles off the dam.

It is recommended that the western end of the lake be dredged and cleared of brush so as to adequately take care of the water held by the dam.

Flushing Park

The usual maintenance activities were carried on by the one laborer in charge of this park. Work included the repairing of walks, cleaning and painting fountain, benches and paper cans, also fence around the soldiers' monument, renewing halyard ropes, painting flagstaff, pruning dead wood and spraying trees.

Forest Park

Administration Building

General repairs to plumbing and heating systems, filing cabinets and map racks built in the engineer's office, blue frame rebuilt, windows, doors and screens repaired, and new storm sashes made. The ladies' dressing room and toilets were decorated and the cesspool cleaned.

In addition to the usual work attached to maintaining the grounds and recreation fields one new backstop was built and an old one rewired and painted; the field was cleaned and regraded, soccer and football standards provided, and additional benches installed along the walks

around the field. All playground apparatus was inspected and repaired. The upper road was resurfaced with bluestone screenings, the lawns were kept clean and trim, trees and shrubs cultivated, sprayed and trimmed, and flower beds prepared for Spring plants.

Roads and Drives

The roads were constantly under the care of the road gang, culverts were kept clean and clear, and all roads and walks cleared of snow and ice and sanded where dangerous during the Winter months. Directional, danger, and "No Parking" signs were distributed where required. Thirty-six (36) single and ten (10) double concrete benches "of our own make" were permanently installed to take the place of the old rustic benches along the walks and drives.

Memorial Trees and Drives

All memorial trees throughout the borough were given the most careful attention; the trees were cultivated, trimmed and sprayed, and the tree boxes painted and kept in repair.

The new drives and walks surrounding "My Buddy" monument were completed the end of this year. The flagstaff was painted and the flower beds planted with Spring bulbs.

Bridle Path

This section of the park was given the usual harrowing and scraping during the period of its use. The sand pit road, a proposed addition to the bridle path, has now been completely cleared of logs, brush and debris and the brush burned.

Forest Lodge

This house has been thoroughly overhauled. New leaders and gutters were installed, and a new stoop in the rear of the house erected. The gas piping was renewed and all the heater pipes completely covered with asbestos. The entire house was painted.

Jackson Pond Playground

A new water main was connected to the lake from Memorial Drive so as to permit the flooding of the lake in Winter and the necessary evaporation in Summer. Danger signs and benches were installed and the playground apparatus kept in good repair.

Band Stand

Leaks repaired, roof painted, also all metal railings, exterior trim and sounding board. Electric line over arc rewired and supplied with new bulbs; musicians' chairs and music stands repaired, new halyard ropes installed and flagstaff painted. Plaza resurfaced with bluestone screenings, shrubs cultivated, lawns trimmed, rolled and resodded, benches painted and repaired.

The usual preparations and arrangements for concerts, memorial services, etc., entail a great amount of work outside the regular hours as no extra force is provided to cope with these tasks.

Bridges

Bridge No. 2 over Myrtle Avenue highway is now under construction; when completed the department will have three of the finest concrete bridges in the park system.

Comfort Stations

Plumbing and heating repairs were made in Comfort Station No. 1; interior of building entirely decorated, roof gutters and leaders repaired. A new 2-inch water supply was connected, in addition to the one installed last year, in order to remedy inconvenient and unsanitary conditions resulting from insufficient pressure produced by a single connection.

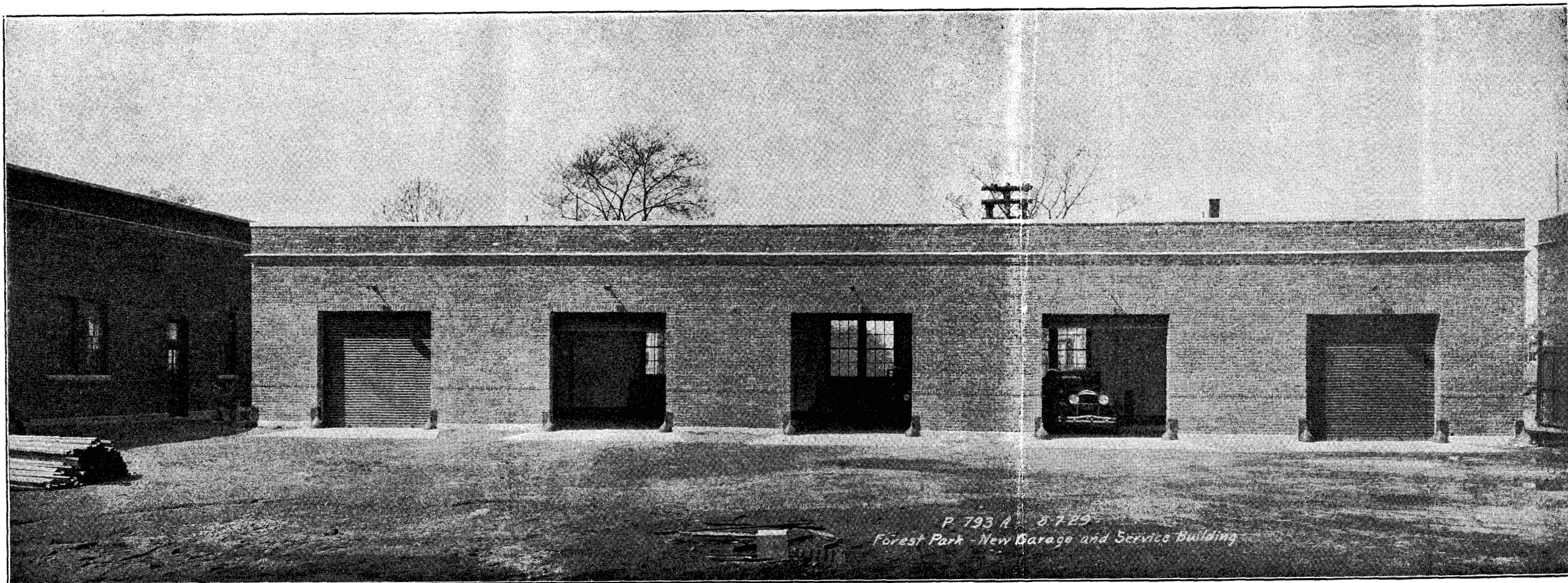
The new Comfort Station completed the end of this year, known as No. 2, provides a long wanted improvement to the golfing and general public who frequent this section of the park. The building has been equipped with shower baths and locker space. The playground adjoining this Comfort Station was completely fitted with the latest type of apparatus; small swings, sand boxes and benches were also supplied. Fourteen concrete posts were erected to close the old Dry Harbor Road entrance. Two laborers were assigned to the care of this Comfort Station and playground.

Playground No. 1, Woodhaven Boulevard

New drinking fountain and sewer drain installed; 350 feet of 2-inch galvanized pipe was connected to the sewer to drain the overflow from the rock fountain in the flower beds. New signs were placed on all swings, benches repaired, paper burning crates and refuse cans placed in service. The apparatus was constantly inspected and kept in repair.

Shops

A thorough rearrangement of the shops was made in order to secure more working space and facilitate the handling of the numerous and



New Garage and Storehouse—Forest Park

varied jobs which are undertaken here. A central storeroom was built for supplies and tools which heretofore had been stored in various parts of the building without check; under the new arrangement a proper accounting system has been installed.

The following is an account of the work performed in the shops during the year:

Six tool boxes were built for use by the Forestry Bureau; they were made of a size suitable for the automobile trucks on which they are carried from place to place. Sufficient space was allowed to permit the storing of large saws, axes and ropes.

Step ladders, truck tongues, single and double whiffletrees, snow ploughs, stone boats, etc., were also constructed, as were portable shanties, coal boxes, band stands, barricade bucks, picnic tables, speaker's stands, metal and wooden sign boards, burning crates, flagpoles, auto truck bodies, cement benches, flower pots, posts and drinking fountains.

All the benches in the park system were repaired and painted here; all signs were lettered and painted, and repairs made to all the playground apparatus. The reversible wooden back benches, used on the boardwalk at Rockaway Park, were manufactured here.

Other activities carried on by the shop forces were the connecting and disconnecting of all drinking fountains, the carting of benches for different occasions, the taking down and erecting of all playground apparatus, erection of life lines, lookout houses, the care of life saving equipment used at the various beaches and lakes, the hauling of about 150 truck loads of steam ashes for use on roads, walks, running track, etc.

In spite of the great increase in playgrounds, tennis courts, etc., involving the erection, inspection and repairs of additional apparatus and equipment, the mechanical and laboring force was not augmented. Manifold as the duties of this force are, the foregoing enumeration scarcely includes them all. A great many tasks which consume valuable time and attention are of such a nature as to elude classification.

Garage

All automobiles and motor equipment were regularly examined, greased, cleaned and kept in repair; service records and maintenance cost of each car were also kept. Following is a list of the present motor equipment:

There are 19 cars, 11 of which are trucks, 2 Fordson tractors, 1 motor cement mixer, 1 motor paint spraying machine. Four new Ford

trucks of 1½ ton size were added to the equipment this year; four old Ford trucks were turned in as part payment on this additional equipment.

During the year 1928 the cars rolled up a mileage of 147,334 miles, used 15,025 gallons of gas, 679¾ gallons of oil. The total cost of maintenance amounted to \$3,297.06, divided as follows: Departmental labor, \$2,394.37; materials, \$26.19; open market orders, \$176.50.

Mower Shop

In the Fall of the year all mowers are collected, cleaned, cutters sharpened, repaired, adjusted and painted. An inventory is taken of new repair parts and requests are made for new equipment. Following is a list of the new equipment received this year:

2 field mowers, 15 hand mowers, 4 green mowers, 1 triple fairway mower, 1 steel disc harrow, and 1 tractor hitch plough.

The work is handled entirely by two laborers under the direction of the Superintendent of the Garage.

Victory Field

The baseball activities more than taxed the six diamonds and kept the staff busy arranging the playing time to fit the organized league schedules. In addition there were the usual athletic events conducted by public and parochial schools, churches, commercial leagues, police and firemen, etc. Track races were held by the A. A. U., bicycle races by the Long Island Wheelmen; hockey, soccer and skating, handball tournaments, all came in for their usual attention. In connection with the regulation and supervision of these numerous recreative activities mention must be made and credit given to the men assigned to these duties. Frequently they were obliged to give their services at unusual times, and for prolonged periods, regardless of weather conditions or other disturbing factors. The mere physical work of handling the huge crowds, of dealing with them tactfully, of preventing accidents, etc., is in itself a herculean task.

In addition to this supervisory work there was of course the usual allotment of tasks such as raking, rolling and levelling the ball fields and running track, keeping them free of litter, etc. Baseball and handball back stops had to be repaired, new halyard ropes installed and flag-staff and drinking fountains painted; the water supply also had to be kept in good condition.

Greenhouses

The floral displays held during the year were notably fine. The Easter Exhibition and the Chrysanthemum Show occasioned much favor-

able comment, many different varieties being displayed. The flower beds adjourning the greenhouses were also attractively maintained throughout the Summer.

The exterior of the main building was painted; culverts and drains were built to protect the cellar from floods. A concrete retaining wall was built between the two houses. The heating plant, grates, etc., were repaired, an iron frame work was built and shades hung in the show house. The glass was sprayed with paint to deflect the sun's rays; potting benches were altered and rebuilt.

Show platform and flower stands were built, cement and wooden flower pots made, an electric pot washing machine installed and a metal spray cover equipped for it. One hundred and twenty-five panes of glass were glazed during the year. Ashes were removed from the boiler room daily. In order to permit the contractors to raze the old buildings, which were replaced by more modern structures, it was necessary to remove thousands of plants from the greenhouses.

Golf House

Shingle roof and all valleys repaired and painted, new copper flashing installed, chimneys pointed up, door checks replaced with new ones, window sash cords renewed, cornish and porch ceilings repaired, heating plant overhauled, new grates and flue pipes installed, plumbing in showers, toilets and basins repaired, as well as cement floors in showers. Shower bath curtains cleaned, locker rooms, showers and toilets in main lobby painted, stairways redecorated, radiators and cashier's cage rebronzed. Water pump kept in condition, all plaster work repaired, wooden steps leading from terrace built, twelve panes of glass glazed, flagstaff painted, new halvard ropes installed. Grass and shrubs were kept in trim and cultivated, and all walks and steps kept free from ice and snow, and sanded during the Winter.

Golf Links

Considerable work was accomplished here during the year. Eighteen new wooden clay boxes, with angle iron legs bolted through, were built, painted and numbered, and serviced with clay during the season. A set of eighteen new markers were made, painted, and numbered, and the old ones repaired. All water connections to the greens and drinking fountains were inspected and renewed where necessary. No. 12 tee was removed and rebuilt on another location. All culverts and drains were kept clean. The fairways were kept clear of stone and litter, depressions were raised and levelled; the greens were spiked, top-dressed, rolled and cut during the season. Seventy cubic yards of manure was

used in covering the eighteen greens; winter greens were prepared for use.

The old transverse road running through the golf links was barricaded and closed to automobile traffic. Suitable warning and directional signs were made and erected on the roads and around the golf course. All dead wood and brush was cleared and burned along the fairways.

Mention must be made of the work that devolves upon this bureau in connection with the supervision of 800 or more caddies. These boys range between twelve and eighteen years of age; they are required to file application, giving name, address, age and school attended, before they may be accepted. They are also required to produce the signature of parent or guardian in order to release the City of New York and the Commissioner of Parks of liability in case of accident during their employ on the links. When the application is approved the boy is given a badge with number, and a book of rules and instructions. In order to maintain discipline the caddies are made to familiarize themselves with the rules laid down in the book and are expected to live up to them.

Four special patrolmen are assigned to the links and are on duty daily from eight in the morning until dark. It is their duty to see to it that all persons playing golf have permits and all boys caddying have badges. They are kept perpetually busy driving rowdies from the links, preventing acts of vandalism, and holding the caddies to a proper performance of their duties.

Picnic Grounds

As the picnic grounds are always in great demand a force of laborers is constantly employed shifting tables and benches from place to place, clearing away litter, erecting directional signs, and keeping the water connections and drinking fountains in good order.

Highland Park

Thirteen dead trees were taken down and the wood cut up for use in the Comfort Station; 75 cubic yards of steam ashes were used in grading and reshaping all the walks. 2,600 feet of cobble stone was paved, gutters repaired, fifteen cubic yards of bluestone screening and two cubic yards of stone and sand used on the band stand plaza. Forty cubic yards of manure was spread on the flower beds, twelve acres of lawn kept in condition during the season, and 16,000 plants of different varieties planted. New water pipes installed in flower gardens, roads repaired and resurfaced, band stand painted, memorial tablet repaired and varnished, and the sewers bordering the walks and drives kept clean.

General repairs to heating and plumbing, plaster walls in Comfort Station repaired, all outside metal work redlead and painted, screens

for doors and windows built and installed, new signs lettered, and all playground apparatus inspected and repaired.

The band concerts and picnics held at this park during the season were well attended and highly appreciated, judging by the commendations received.

Jackson Park (Weeping Beech)

General repairs to the building, roof leaders and gutters; chimneys pointed up, new wind deflectors installed, building painted. Heating plant and kitchen range repaired, and new parts furnished; main hallway and meeting rooms decorated, kitchen painted. The lawns were cultivated and kept in condition, and the "Weeping Beech" itself, with its surrounding grounds, given the usual exacting attention.

Lafayette Park

Weeds removed and grounds kept clear of rubbish throughout the year.

Newtown Cemetery

An entire new equipment of playground apparatus, and drinking fountains, had to be installed owing to the work of destruction carried on during the Summer by rowdies. The vandalism perpetrated at this park has been so flagrant that it was necessary to notify the Police Department.

King Park

Installed new heating plant, repaired and pointed up chimneys, installed new flue pipe, cleaned cesspool. Built new tool house in rear of building, repaired roof, leaders and gutters, built ventilator in main roof, overhauled heating plant in Comfort Station, painted memorial cannons and band stand. Cultivated and pruned shrubs and flower beds, kept lawns in condition; twenty-four yards of manure used on flower beds. Walks kept clear of snow and ice. Band concerts held during season and well attended.

Kissena Park

Repaired and painted interior and exterior of office and tool shed, built cement floor in the office, renewed and roofing. Repaired and fastened down copper roofing on the Comfort Station, repaired heating and plumbing system, built drain and cesspool in basement, raised coal shoot and gratings. Changed the grade and replaced 300 feet of sidewalk, painted and redlead all iron work, built two sets of concrete steps at natural spring fountain.

Constructed an entire new building at the lake, size 20 by 20 by 15, to be used for storing tools, mowing equipment, etc. Rewired backstops,

installed new water supply and additional connections for all tennis courts; built and graded new ball field and erected new backstop. Repaired roof, porch, dock and railing of boat house. Danger standards and suitable signs supplied. Rustic work on pergolas repaired, playground equipment inspected and repaired. Built new concrete dam at children's wading pool, erected concrete posts across abandoned road, supplied bandstand benches, repaired burning crates and painted all memorial tree guards and signs. Repaired stable roof, rebuilt stalls, feed boxes and stable floor; repiped and boxed in water supply to prevent freezing. Repaired and painted shelter and tool house; built new out-house at nursery. Tore down dangerous old building in new section of the park.

Leavitt Park

Contractors are still permitted to dump clean fill. The old open sewer has now been entirely covered. There is still room for thousands of cubic yards of clean dirt. One laborer directs the dumping of material and levels it as it is delivered.

Linden Park

Repaired heating and plumbing system in Comfort Station and built store room in basement. Built a boat to clean the lake; repaired the drain running from the lake to the sewer; also walks and rustic benches. Removed rubbish and undergrowth from lake, kept all walks free from snow and ice during the winter. Sprayed shrubs and trees, cultivated them, and kept lawns in condition. Furnished portable bandstands and benches during the concert season. A new steel fence was erected around the entire park.

Rainey Park

Painted interior and exterior of office, and shored up and rebuilt footings under this building. Installed wash basin and connections, built cesspool and drain. Planted memorial trees and supplied guards for them; repaired roof of tool house and covered sides with concrete. Painted all rails along the river front, also baseball backstops and flag-staff. Disconnected the old water meter and installed pipe for drinking fountain. All playground apparatus kept in constant repair, lawns conditioned, and all memorial trees on Nutt Avenue gore and Court House Square cultivated.

Rockaway Park

Five hundred feet of spruce flooring replaced on boardwalk; ramps and aprons repaired. Pipe railing along boardwalk inspected, repaired and refastened; joints redlead and painted. Benches installed, lagged down and painted. Old barge wrecked on beach was cut up and

cleared away. Life lines erected in Spring and taken down in Fall. Five lifeguard lookout houses were taken down and removed to shops to be made portable. Two shelters were erected at Beach 117th Street and the ocean for lifeguards and fitted with first aid kits and lockers. Suitable signs were placed along the boardwalk, beach water connections and drinking fountains installed, and burning crates distributed along the beach. Life-saving equipment, tools, etc., are brought to the shops at the end of the season, inspected and overhauled for the next year.

The new bulkheads and jetties were completed and are now fully covered by the sand, thus increasing the beach area the full length of the jetties and at the same time establishing complete protection against storms of both beach and boardwalk. The beach was kept clear of driftwood and other refuse during the season. A corps of twelve lifeguards rendered valuable service; many bathers were rescued.

Jacob Riis Park

The gores along Washington Avenue were supplied with plants of various kinds; the concrete road was repaired and cracks filled where necessary. New signs were erected in parking spaces, the beaches cleared of refuse and driftwood and adequately protected by life-guards.

Upland Park

Resurfaced walks with ashes, shored and built footings under tool house on edge of lake, erected concrete benches along paths, cleaned lake of underbrush, erected suitable signs, repainted the shelter, built new coal and tool boxes, and repaired water supply connections for the drinking fountain.

Wayanda Park

Cement curb, cesspool, and drain built, tennis courts resurfaced, clayed and graded, backstops rewired, caretaker's shelter built, two concrete benches erected. Drinking fountain and water connections installed, concrete posts placed across the walk, plaza covered with blue-stone screenings. Skating and tennis brought good attendance during their respective seasons. Shrubs were cultivated, grass trimmed, and walks kept clear of snow and ice.

Whiting Square, Woodhaven

Built concrete foundation and base for a twelve ton war memorial and place it on its base. Graded, seeded, and planted a private hedge fence around the plot. Erected a new 55 foot steel flag-staff.

Cypress and Myrtle Avenues

Cleaned, levelled, and seeded plot; erected fourteen posts with chain connecting the posts.

Myrtle and Cooper Avenues Memorial

The fence, cannon and flagstaff were painted; grass and flower beds serviced during the season.

Corona Heights Park

Repairs to fence and walks; grass and flower beds serviced from Linden Park.

Fifth Street Playground

This playground has been fully equipped with new apparatus.

Playgrounds—Miscellaneous

The following playgrounds are fully equipped in the early Spring, inspected and serviced by the shop gang, and in the Fall of the year are dismantled and equipment removed to the shops where they are given a thorough overhauling, parts replaced, and put in condition for the following year:

Singer Street Playground, Astoria

Mothers' Club, Whitestone

St. Joseph's Home, Flushing

Jamaica Day Nursery, Jamaica.

REPORT OF HEAD GARDNER

1 9 2 7

January

Christmas show plants cut back, cleaned, and stored away.

Greenhouse benches cleaned and resanded.

Stock plants repotted for propagation, etc.

Bedding plants propagated and fumigated.

Stove plants, palms, etc., cleaned and sprayed with insecticide.

About 20,000 various sized pots washed for Spring potting.

All canna stock roots cleaned and reset.

Potting soil, sand, manure, etc., hauled in and mixed for use.

Ashes from boilers taken out and hauled away.

February

Propagating and repotting Coleus, Alternanthera, Achyranthes, Begonias, Philanthus, Echeveria, Geraniums, Centaureas, Mezembryanthemums, Acalypha, Fuchias, Ivy, Lantanas.

Potting soil mixed and prepared, pots washed.

Shifting and replacing stock and show plants in order to make room for young plants and seedlings.

Cleaning and resanding benches.

Cutting up cannas for potting.

Stock in outside frames cared for and aired.

Fertilizing growing plants in greenhouses.

Sowing seeds of Salvias, Celosia, Ageratum, Begonias, Asters, Primula, etc., for Spring planting.

March

Potting up Cannas and seedlings.

Bringing in potted bulbs for Easter showing.

Hauling and mixing soil and sand, etc., for potting purposes.

Repotting and propagating bedding plants.

Cleaning up and pruning shrubbery in outside parks.

Manuring flower beds in parks, gores, malls, etc.

April

Transplanting and potting up seedlings of Spring bedding plants.

Repotting propagated bedding plants and other varieties.

Hauling and mixing soil; fumigating houses for control of insects.

Setting out plants in outside frames.

Planting pansy beds in various parks and memorial tracts.

Preparing beds for planting, cleaning up lawns, etc.

Transplanting shrubbery and hardy plants.

May

Repotting bedding plants.

Digging and planting flower beds in parks and boulevards.

Laying out and planting beds at various memorials, hospitals and other public institutions.

June

Planting out beds in parks, triangles, etc.

Repotting and propagating Chrysanthemums for Fall show.

Cultivating and caring for planted beds.

Cutting grass in outside gores and parkways.

The following is an approximate number of plants raised, planted and distributed in park beds, memorials, parkways, hospitals and public institutions:

Cannas	12,000	Geraniums	9,000
Centaureas	7,000	Coleus	20,000
Achyranthus	5,000	Ageratum	2,000
Salvias	10,000	Begonias	5,000
Altanathera	8,000	Anthirinum	1,000
Ivy	200	Tradiscantia	700
Pansies	3,000	Philanthus	300
Asters	500	Hardy Perennials	1,000
Crotons	300	Cupheas	300
Fuchias	200	Celosia	300
Ricinus	250	Godetia	400
Total		86,450 plants	

July and August

Care of flower beds in parks, boulevards, malls, etc.

Growing Chrysanthemums, Cyclamen, Primroses, Ferns, Palms and general line of plants for Fall and holiday display.

September

Trimming and care of beds in parks, gores, etc.

Taking cuttings of the various kinds of bedding plants for purposes of repropagation.

Cleaning and resanding Greenhouse benches.

Repotting Chrysanthemums and other plants.

Hauling in soil and sand for Fall and Winter use.

Washing pots, fumigating and disinfecting plants for protection against insects and disease.

October

Bringing in stock from beds for Winter storing and propagation.

Cleaning and preparing beds to be planted with bulbs for Spring.

Transplanting pansy plant seedlings.

Tying and repotting Fall and Winter display plants, Chrysanthemums, Poinsettias, etc.

November

Planting Tulip and Hyacinth bulbs in various park and memorial beds.

Mixing and preparing potting soil.

Cleaning and resanding benches.

Repotting, cleaning, tying with stakes, and fumigating all Fall and Winter display plants. (Fourteen thousand bulbs used.)

Propagating bedding stock and stove plants for coming seasons.

Arranging about 5,000 Chrysanthemums for annual show.

December

Preparing potting soil, care of heating, ventilating systems, etc.

Repotting and care of stock, show, and bedding plants.

Preparing about 4,000 Poinsettias, Cyclamen, Cherries, Primroses and Stevia plants for Christmas display.

Arranging plants in show houses for the display.

1 9 2 8

January

Cleaning and resanding benches.

Cleaning out old stock plants.

Propagating and repotting new stock and cuttings.

Cleaning and repotting show plants; rearranging plants on benches.

Fertilizing and disinfecting plants.

Hauling soil, sand, and manure.

Tying up and staking plants, washing pots, cleaning up canna bulbs.

Care of bulbs and stock in outside frames.

Care of boilers for heating; removing ashes.

February

Propagating and repotting Spring bedding stock.

Growing Lilies for the annual Easter show.

Propagating young stock of Chrysanthemums and potting them up.

Resanding benches and washing pots.

Sowing seeds of bedding plants.

Cleaning, spraying, fertilizing and repotting show plants.

Care of flowering bulbs and pansies in outside frames and beds.

Tying and staking plants.

Rearranging and repairing benches.

Hauling in sand, soil, and pots.

Care of boilers and removal of ashes.

March

Cutting and potting cannas.

Propagating, Chrysanthemums, Geraniums, Coleus, Achyranthes, Centaureas, Mezembryanthemums, etc.

Potting up Begonias and other seedlings.

Hauling in soil, sand, manure and pots.
Sowing seeds of annual and perennial plants for outdoor culture.
Care of Pansies and bulbs in outside beds and frames.
Repairing benches and rearranging houses for display purposes.
Bringing in bulbs for Easter forcing.

April

Potting up seedlings and repotting all varieties of bedding plants.
Rearranging show house for Easter display.
Setting out annual and perennial plants in frames and border beds.
Clearing off outside bulb beds.
Pruning shrubs in parks and boulevards.
Planting young hardy shrubs in Kissena Nursery.
Removing shrubs at Dry Harbor Road entrance.
Planting pansies in outside park beds.

May

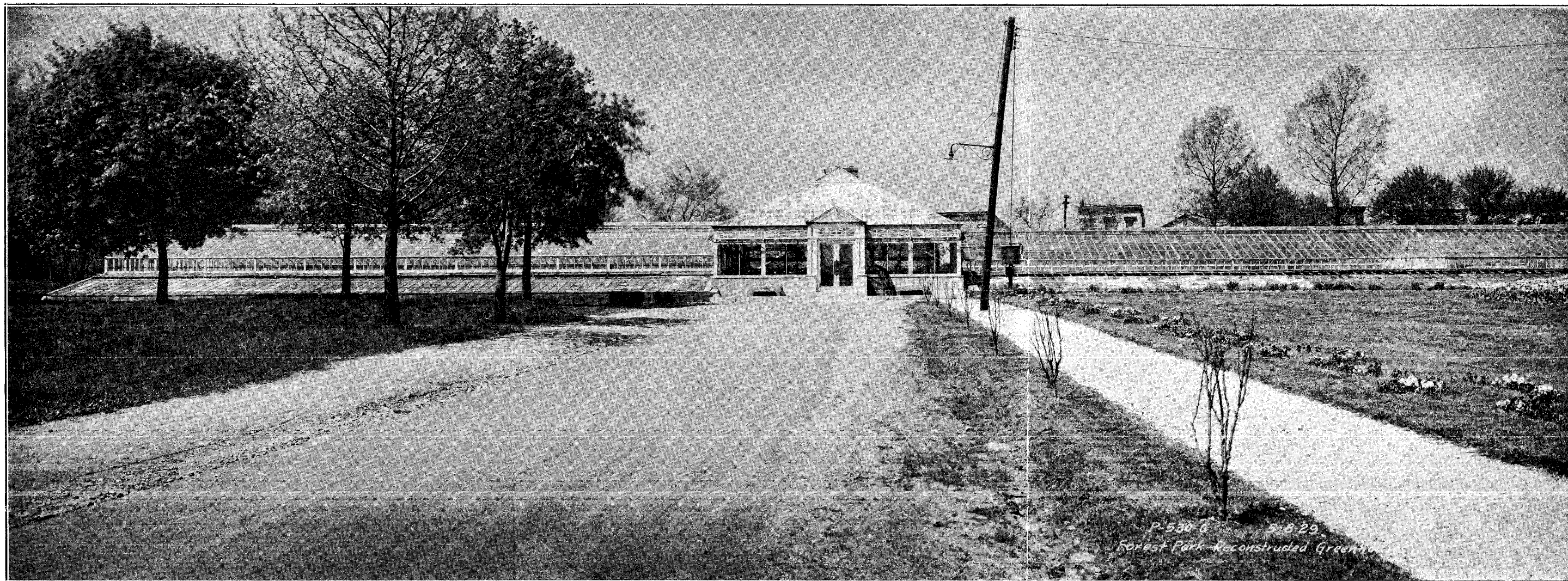
Digging, manuring and preparing park beds for planting.
Digging up and curing tulip and hyacinth bulbs.
Dumping out and boxing up plants for shipment to various parks, boulevards, etc.
Setting out plants in frames and beds.
Washing pots, hauling sand, soil, etc.
Weeding and transplanting plants in outside frames.
Cleaning up and repairing lawns on gores and parkways.

June

Boxing up plants for shipment to various parks, public institutions and hospitals.
Planting and laying out flower beds in parks and boulevards.
Weeding and cultivating flower beds.
Propagating and growing plants for Fall and Winter display.
Pruning flowering shrubs for new growth in various parks.
Sowing grass seed to repair old lawns and establish new ones.
Cleaning and resanding benches in greenhouses.
Hauling soil, manure, etc., for potting purposes.

July

Weeding and cultivating flower beds in parks and boulevards.
Cleaning and lining pot benches in greenhouses.
Repotting and propagating Fall and Winter blooming plants.



Reconstructed Greenhouses—Forest Park

Cleaning and repotting palms, ferns, etc.
Cutting lawns and taking care of perennial beds and shrubs.
Hauling in soil, sand and materials for repotting purposes.

August

Cutting grass on front lawns.
Cultivating and weeding flower beds in outside parks and boulevards.
Washing and storing up pots.
Repotting stock and show plants.
Resanding and cleaning up benches.
Rearranging plants in greenhouses.

September

Mowing lawns, weeding and cultivating flower beds.
Staking and tying up Chrysanthemums.
Hauling, sifting and mixing soil and manure.
Weeding and cleaning plants and stock in outside frames.
Bring in cuttings of bedding plants for Winter stock.
Cleaning and preparing boilers.
Repotting Chrysanthemums and other stock plants.

October

Propagating and repotting bedding and other stock and display plants.
Bringing in stock from outside flower beds.
Preparing flower beds for Fall planting of bulbs.
Tying and staking Chrysanthemums, etc.
Pruning and cleaning up shrubs.
Mixing and sifting potting soil.
Resanding benches and shifting plants.
Washing flower pots.
Digging and manuring frames.
Planting pansy plants in frames.

November

Arranging show house for Fall Chrysanthemum show.
Tying and staking plants.
Sifting and mixing soil, manure, etc.
Bringing in canna bulbs, etc., from outside parks and boulevards.
Planting tulip and hyacinth bulbs in park beds.
Potting up Easter lily bulbs.
Potting up tulip and hyacinth bulbs and plunging them in outside frames.

Repotting stock and bedding plants.
Rearranging plants, resanding and cleaning benches.

December

Cleaning Chrysanthemum plants out of show house; selecting and labelling them for stock.

Staking and tying up Poinsettas for Christmas showing.

Propagating and repotting bedding and other varieties of plants.

Washing pots and cleaning benches.

Spraying and fertilizing plants.

Hauling in soil, sand, manure and pots.

Moving plants into other houses.

Care of heating and ventilation; removing ashes.

Arranging Poinsettas, Cyclamen, Heather and other plants for Christmas display in show house.

A list of the various plants grown at the Greenhouse is here appended:

Shamrocks	3,000	Mezembryanthemum	
Cannas	8,500	Cordifolia	300
Coleus	20,000	Platycodon	150
Altananthera	5,000	Gaillardia	500
Acalypha	3,000	Poppies	600
Mezembryanthemum	700	Centilena	3,000
Tradiscantea	1,000	Pilea	200
Asters	1,200	Tulip	1,000
Barberry	3,000	Salvias	7,500
Chrysanthemums	4,500	Geraniums	7,500
Pansies	6,000	Achyranthes	6,000
Poinsettias	525	Abutilon	1,000
Heather	45	Verbena venosa	1,000
Begonia fancy	190	Begonias	5,000
Asparagus fern	350	Escheveria	1,500
Fuchias	400	Privet	1,500
Crotons	30	Dahlias	400
Gloxinia	200	Cyclamen	400
Ivy	150	Primula	450
Cuphia	3,000	Draceanas mixed	175
Digitalis	500	Ginestra	150
Aucuba japonica	125	Philanthus	400
Centaureas	7,000	Hibiscus	40
Easter Lilies	500	Ferns	450
Rinca	250	Calceolaria	150

Amaryllis	200	Browalia	150
Scarlet Runner	75	Agrostema	200
Delphinium	500	Phlox	400
Roses	200	Lantana	400
Celosia	3,000	Stevia	400
Pomerantes	150	Hyacinth	800
Hydrangea	250		
Miscellaneous stove plants for display.....			600
Total	115,575		

The following list shows the distribution of the above throughout the various parks, institutions, public buildings, etc.:

King Park	6,250
Kissena Park	4,600
Astoria Park	400
Rainey Park	450
Highland Park	11,250
Linden Park	700
Overlook	1,500
L. I. City gores and triangles.....	3,500
College Pt. Park.....	1,600
Rockaway Park	3,500
Public Buildings	1,500
Upland Park	250
Slocum Monument	400
Forest Park	17,500
Golf House	1,400
Corona Triangle	250
St. John's Hospital	800
St. Malachy's Home	400
Memorials	4,500
Charitable Institutions	7,000
Barberry, Deutzia Golden Boxwood Maples and Stephandria sent to Kissena Nursery.....	3,000
Hardy Annuals, Perennials and Herbaceous plants planted in hardy beds and borders.....	7,000
Tulip and Hyacinth bulbs planted in park beds	10,500

Materials Used

Coal	214 tons
Flower Pots	65,000
Soil	60 yards
Sand	35 yards
Manure	40 yards

Insecticide	5 gallons
Garden Hose	800 feet
Flat boxes	500
Flower and Plant Seeds.....	2 lbs.
Prepared Fertilizer	900 lbs.
Nitrate of Soda	60 lbs.
Lime	5 lbs.
Grass Seed	1,000 lbs.
Plant Bulbs	16,000
Tulip and Hyacinth Bulbs.....	15,000
Tobacco Dust	200 lbs.
Kerosene	15 gallons

ARBORICULTURAL SECTION

The work of this bureau is performed by a staff of sixty odd men under the direction of Louis Thiesen, Forester. A variety of tasks are included in the routine work of this force of climbers and pruners; planting and transplanting trees and shrubs, trimming and spraying trees, developing nursery stock, combatting insect pests, removing dead or diseased trees, filling cavities, etc. When one reflects that the tree population of this borough (street trees alone) numbers about 400,000, some idea may be gained of the scope of this bureau's activities. If, in addition to these, one thinks of the multitudinous number which flourish in our parks, malls, and grounds of public institutions, all given over to the supervision of this bureau, some realization may be had of the task confronting us. Over 10,000 requests were received in the last two years from house-owners for the services of our men in trimming, spraying, removing trees and cementing cavities. Approximately eighty percent of these requests were acted upon.

The bulk of the work performed is given over to the removal of the numerous poplars which are rampant throughout the streets of Queens. Among the parks receiving special attention, concentration was placed on Bowne and Kissena because of the active developments being carried out in these places. In Kissena there were many dead trees which demanded removal because of the public's exposure to danger. In Astoria Park all the trees were sprayed and trimmed and many new ones planted. Wherever, in our parks or parkways, roads were constructed or repaired, the services of this bureau were demanded in consultation to prevent damage to the trees themselves, to avoid injuring the soil, or changing the natural course of waters and drainways. Similarly this bureau is often obliged to consult with the Highway Department when streets are being graded, altered, paved, etc., in order that live trees may be given full protection.

Through the acquisition of a high-powered spraying machine great progress was made in controlling insect pests. The tussock moth and the elm leaf beetle are formidable enemies of tree foliage, and special efforts are put forth to destroy these pests. Other tree-destroying insects are the fall webworm, the woolly bear and the leopard moth. The webworm and the woolly bear strip the trees of their foliage in the late Summer and early Fall, while the grubs of the leopard moth bore into the trees, create galleries, and in many instances girdle large branches which the slightest wind blows down, causing injury to trees and danger to pedestrians. Scale insects are also numerous. San Jose, Ouster, Shell, Scuffy and numerous species of aphids or plant lice affects trees and shrubbery. Experiments are continually made to discover the most effective remedies against these pernicious pests.

In the Spring of the year about one-half of the force is commanded to expedite the clearing of the beaches at Rockaway which are always piled with debris accumulated by the winter's storms.

Follows an itemization of the work performed during the years 1927 and 1928:

1 9 2 7

Nursery:

Trees and shrubs trimmed	3,868	Trees and saplings planted	1,222
Trees transplanted	249	Privets planted	1,710
Trees and shrubs sprayed	700	Trees straightened	46
Trees dug out.....	297		

City Streets:

Trees trimmed	11,767	Trees planted	1,083
Trees tarred	11,767	Trees transplanted	50
Trees removed	1,738	Cavities filled	51
Trees inspected	4,368	Trees straightened	9
Trees headed back	527	Holes dug for tree planting	115
Trees sprayed	29,651	Stumps removed	28

Parks:

Trees removed	667	Trees sprayed	1,800
Stumps removed	125	Trees trimmed	353

1 9 2 8

Nursery:

Trees and shrubs trimmed	208	Tree saplings planted....	254
Trees transplanted	128	Pines, privets, shrubs	
Trees and shrubs sprayed	700	transplanted	2,126

City Streets:

Trees trimmed	12,449	Trees transplanted	75
Trees tarred	12,449	Cavities filled	53
Trees removed	1,749	Trees straightened and	
Trees inspected	5,193	staked	62
Trees headed back.....	1,157	Stumps removed	93
Trees sprayed	27,327	Holes dug for tree planting	227
Trees planted	1,057		

Parks:

Trees removed	230	Trees trimmed	681
Stumps removed	13	Cavities filled	16
Trees sprayed	1,778		

DEPARTMENT OF PARKS—QUEENS

Recreational Features

Park	Location	Play-ground	Ice Skating	Boat-ing	Tennis	Baseball	Athletic Field
ASTORIA	Astoria	1	1	..	6	2	1
ASHMEAD	Jamaica	1	..	..	..	..	..
ANAWANDA	Ridgewood	1	..	..	3	1	..
BAISLEY	S. Jamaica	1	1	1	..	1	..
FOREST	Woodhaven Blvd.						
	Main Drive						
	Glendale	1	..	..	..	..	..
	Myrtle Avenue						
	Dry Harbor Rd.						
	Glendale	1	1	..	..	..	..
	108th Street and						
	Myrtle Avenue,						
	Richmond Hill	1	1	..	..	..	..
	Union Turnpike and						
	Metrop. Avenue,						
	Forest Hills	1	..	..	..	..	..
	Union Turnpike and						
	Park Lane,						
	Kew Gardens	1	..	..	..	2	..
	Myrtle Avenue and						
	Woodhaven Blvd.,						
	Glendale,	..	1	..	..	6	1
	79th Street,						
	Woodhaven	..	..	..	..	1	..
	80th Street,						
	Woodhaven	..	..	..	..	1	..
	87th Street,						
	Woodhaven	..	..	..	12	..	..
	5th Street,						
	L. I. City	1	..	..	..	..	..
	Highland Evergreen	1	..	..	..	1	..
KISSENA	Flushing	1	1	1	12	1	..
LEAVITT	Flushing	1	1	..	..	1	..
PAUPER'S							
BUR. GD.	Flushing	1	..	..	..	..	..
RAINEY	L. I. City	1	..	..	..	1	..
UPLAND	Jamaica	1	1	..	..	..	..
WALANDA	Queens Village	1	1	..	2	..	..
Total		17	9	2	35	18	2

818

Golf Course (Forest Park)

357

- 18 hole course
- 118 acres
- 1 Golf House
- 1 Combination Golf House and Comfort Station.

MONIES RECEIVED

	Privileges	Golf Permits Seasonal	Daily	Lockers	Telephone and Caddy	Tennis Trees	Miscel- laneous	Total
1927	\$12,675.43	\$18,060	\$17,689	\$3,360	\$819.15	\$8,582	\$200.00	\$61,385.58
1928	13,705.24	17,750	16,068	2,890	799.00	10,420	974.00	62,881.74

BUDGET APPROPRIATION—1927

Department of Parks, Queens

Personal Service

1,375 Salaries, Regular Employees—

1.	Superintendent	\$4,500.00
2.	Assistant Superintendent	2,760.00
3.	Secretary to Commissioner	3,750.00
4.	Stenographer to Commissioner	1,946.00
5.	Assistant Engineer	3,500.00
6.	Assistant Landscape Architect	2,798.00
7.	Transitman	2,760.00
8.	Rodman	1,800.00
9.	Clerk	3,200.00
10.	Clerk	2,600.00
11.	Clerk	2 at \$1,560 3,120.00
12.	Stenographer and Typewriter	2,100.00
13.	Forester	3,000.00
14.	Arboriculturist	2,500.00
15.	Head Gardener	2,500.00
16.	Foreman of Mechanics	3,060.00
17.	Foreman of Stables	2,300.00
18.	Storekeeper	2,400.00
19.	Automobile Engineman	2,400.00
20.	Automobile Engineman	10 at \$1,800 18,000.00
21.	Attendant	2 at 1,500 3,000.00
22.	Messenger	2,005.00
23.	Watchman	8 at \$1,500 12,000.00
24.	Telephone Operator	1,260.00

Schedule Total\$89,259.00

1,376 Wages, Regular Employees—

		Per day	
1.	Foreman of Laborers	1 at \$6.50 (365 days)	\$2,372.50
2.	Foreman of Laborers	7 at 6.50 (313 days)	14,241.50
3.	Plumber	1 at 11.00 (277½ days)	3,052.50
4.	Carpenter	3 at 10.50 (277½ days)	8,741.25
5.	Painter	1 at 10.00 (277½ days)	2,775.00
6.	Blacksmith	1 at 9.50 (277½ days)	2,636.25
7.	Automobile Machinist	1 at 9.00 (277½ days)	2,497.50
8.	Cement Mason	1 at 8.00 (277½ days)	2,220.00
9.	Blacksmith's Helper	1 at 7.00 (277½ days)	1,942.50
10.	Gardener	11 at 6.00 (365 days)	24,090.00
11.	Gardened (Nurseryman)	1 at 6.00 (313 days)	1,878.00
12.	Attendant (Male)	2 at 5.00 (365 days)	3,650.00
13.	Attendant (Female)	7 at 5.00 (365 days)	12,775.00
14.	Hostler	1 at 5.00 (365 days)	1,825.00
15.	Laborer	6 at 5.50 (365 days)	12,045.00

Schedule Total\$96,742.00

1,377 Wages, Temporary Employees—

	Per day		
1. Painter (Letterer)	at \$11.00 (150 days)	\$	1,650.00
2. Painter	at 10.00 (277½ days)		2,775.00
3. Climber and Pruner	at 6.00 (18,157 days)		108,942.00
4. Gardened	at 6.00 (900 days)		5,400.00
5. Driver	at 5.00 (1,606 days)		8,833.00
6. Laborer	at 5.50 (30,000 days)		165,000.00
7. Attendant (Female)	at 5.00 (150 days)		750.00
Schedule Total		\$	293,350.00
Total Personal Service		\$	479,351.00
1378 Forage and Veterinary Supplies		\$	2,200.00
1379 Fuel Supplies			7,500.00
1380 Office Supplies			600.00
1381 Botanical and Agricultural Supplies			3,600.00
1382 Motor Vehicle Supplies			2,400.00
1383 General Plant Supplies			800.00
1384 Office Equipment			250.00
1385 Motor Vehicles and Equipment			6,680.00
1386 Recreational Equipment			2,500.00
1387 General Plant Equipment			5,000.00
1388 Highway Materials			1,500.00
1389 Other Materials			7,000.00
1390 Repairs and Replacements			2,500.00
1391 Motor Vehicle Repairs			300.00
1392 Shoeing and Boarding Horses, Including Veterinary Service			800.00
1393 Carfare			825.00
1394 Telephone Service			1,600.00
1395 Music			12,470.00
1396 Contingencies			20.00
1397 Water			480.00
Total		\$	59,025.00
Departmental Summary—			
Total Personal Service		\$	479,351.00
Total other than Personal Service			59,025.00
Departmental Total		\$	538,376.00

BUDGET APPROPRIATION—1928

Department of Parks, Queens

Personal Service

1,375 Salaries, Regular Employees—

1. Superintendent	\$	4,500.00
2. Superintendent of Garage and Repairs		2,760.00
3. Secretary to Commissioner		3,750.00
4. Stenographer to Commissioner		1,946.00
5. Assistant Engineer		3,500.00
6. Assistant Landscape Architect		2,798.00
7. Transitman		2,760.00
8. Rodman		1,800.00
9. Clerk		3,200.00
10. Clerk		2,600.00
11. Clerk	2 at \$1,560	3,120.00
12. Stenographer and Typewriter		2,100.00
13. Forester		3,000.00
14. Arboriculturist		2,500.00
15. Head Gardener		2,500.00
16. Foreman of Mechanics		3,601.00
17. Foreman of Stables		2,300.00
18. Storekeeper		2,400.00

19. Automobile Engineman		2,400.00
20. Automobile Engineman	10 at \$1,800	18,000.00
21. Automobile Engineman	5 at 1,620	8,100.00
22. Attendant	2 at 1,500	3,000.00
23. Messenger		2,005.00
24. Watchman	8 at \$1,500	12,000.00
25. Telephone Operator		1,260.00

Schedule Total \$97,900.00

1,376 Wages, Regular Employees—

1. Foreman of Laborers.....	1 at \$6.50 (366 days)	\$2,379.00
2. Foreman of Laborers.....	7 at 6.50 (313 days)	14,241.50
3. Plumber	1 at 12.00 (277 days)	3,324.00
4. Carpenter	3 at 12.00 (277 days)	9,972.00
5. Painter	1 at 11.00 (277 days)	3,047.00
6. Blacksmith	1 at 10.50 (277 days)	2,908.50
7. Auto. Machinist	1 at 10.00 (277 days)	2,770.00
8. Cement Mason	1 at 12.00 (277 days)	3,324.00
9. Blacksmith's Helper	1 at 8.00 (277 days)	2,216.00
10. Gardener	11 at 6.00 (366 days)	24,156.00
11. Gardener (Nurseryman)	1 at 6.00 (366 days)	2,196.00
12. Attendant (Male)	2 at 5.00 (366 days)	3,660.00
13. Attendant (Female)	7 at 5.00 (366 days)	12,810.00
14. Hostler	1 at 5.00 (366 days)	1,830.00
15. Laborer	6 at 5.50 (366 days)	12,078.00

Schedule Total \$100,912.00

1,377 Wages, Temporary Employees—

1. Painter (Letterer)	at \$12.00 (277 days)	\$ 3,324.00
2. Painter	at 11.00 (277 days)	3,047.00
3. Climber and Pruner	at 6.00 (19,000 days)	114,000.00
4. Gardener	at 6.00 (1,200 days)	7,200.00
5. Driver	at 5.50 (1,606 days)	8,833.00
6. Laborer	at 5.50 (32,000 days)	176,000.00
7. Attendant (Female)	at 5.00 (200 days)	1,000.00
8. Life Guard	at 5.00 (900 days)	4,500.00

Schedule Total \$317,904.00

Total Personal Service..... \$516,716.00

1378 Forage and Veterinary Supplies	\$2,600.00
1379 Fuel Supplies	8,000.00
1380 Office Supplies	600.00
1381 Botanical and Agricultural Supplies	4,000.00
1382 Motor Vehicle Supplies	2,200.00
1383 General Plant Supplies	800.00
1384 Office Equipment	250.00
1385 Motor Vehicles and Equipment	6,600.00
1386 Recreational Equipment	2,500.00
1387 General Plant Equipment	5,300.00
1388 Highway Materials	2,000.00
1389 Other Materials	8,000.00
1390 Repairs and Replacements	8,500.00
1391 Motor Vehicle Repairs	300.00
1392 Shoing and Boarding Horses, Including Veterinary Service.....	1,100.00
1393 Carfare	1,000.00
1394 Telephone Service	1,700.00
1395 Music	12,470.00
1396 Contingencies	20.00
1398 Water	480.00

Total other than Personal Service..... \$68,420.00

Departmental Summary—

Total Personal Service.....\$516,716.00
Total other than Personal Service..... 68,420.00

Departmental Total\$585,136.00

CORPORATE STOCK AND TAX NOTE AUTHORIZATION

Department of Parks, Queens

Code	Title—1927	Date Auth.	Amount
NDP 407 X	Recon. Bridge, Forest Park Drive and Myrtle Avenue	April 14	\$75,000.00
NDP 407 Y	Construction and Equipment Additional to Service Building, Forest Park.....	" 14	50,000.00
NDP 407 Z	Construction and Equipment 2 Greenhouses, including Removal of Old Building, Forest Park	" 14	40,000.00
NDP 419 A	General Improvement of Anawanda Park.....	" 14	25,000.00
NDP 419 B	General Improvement of Crocheron Park.....	" 14	25,000.00
NDP 419 C	General Improvement of Bowne Park.....	" 14	10,000.00
NDP 420	General Improvement Exterior Sidewalks and Planting of Street Trees along Park Side, Park Lane, Union Turnpike to 115th Street, Forest Park	" 14	21,200.00
NDP 420 A	Reconstruction Approaches to Bridge carrying Main Drive, Forest Park over Right of Way of Rock. Park Div. of L. I. R. R., and Montauk Div. of L. I. R. R.....	" 14	12,700.00
NDP 421	Extension of Concrete Sea Wall along River Side of New Addition to Rainey Park.....	" 14	25,000.00
NDP 411 E	Jacob Riis Park, Widening and Paving Washington Avenue	" 12	95,000.00
NDP 411 E	Jacob Riis Park—Parking Spaces	" 12	5,000.00
NDP 412 D	Astoria Park, Construction of Tennis Courts, Wading Pool, Walks and Incidental Improvements	June 7	33,000.00
NDP 416 B	Drainage of Swamp Areas, Kissena Park.....	Dec. 13	25,000.00
NDP 419 A1	Anawanda Park, Retaining Wall, Boundary Fences	April 12	10,000.00
NDP 420 B	Forest Park, Improvement Park Areas around Greenhouses and Service Building.....	" 12	25,000.00
NDP 420 C	Forest Park, Improvement Park Lane South, including Sidewalk and Planting Trees.....	" 12	15,000.00
NDP 420 D	Forest Park, Construction Sidewalk along Main Drive, Union Turnpike to Metropolitan Avenue	" 12	10,000.00
NDP 420 E	Forest Park, Restoration of Park Areas adjoining Road from Golf House to Myrtle Ave.	" 12	10,000.00
NDP 420 F	Forest Park, Completion of Richmond Hill Entrance, Jackson Pond Improvement.....	" 12	10,000.00
NDP 420 G	Forest Park, Construction Sidewalk along Main Drive, Myrtle Avenue to Golf House.....	" 12	18,000.00
NDP 421 A	Rainey Park, Erection of Boundary Fences and Construction of Walks	" 12	14,000.00
NDP 422	Construction Tennis Courts, Forest and Kissena Parks	" 12	19,000.00
NDP 423	Rockaway Beach Park, Comfort Station.....	" 12	50,000.00
NDP 424	Baisley Pond Park, General Improvements.....	" 12	40,000.00
NDP 425	Improvement Triangular Park Plots.....	" 12	29,000.00
NDP 426	Improvement King Park, including Walks, Drainage, Water Supply and Planting.....	" 12	14,000.00
NDP 427	Upland Park, General Improvement, including Walks	" 12	10,000.00

**CORPORATE STOCK AND TAX NOTE REQUEST FOR THE
DEVELOPMENT OF THE PARK SYSTEM OF THE
BOROUGH OF QUEENS DURING
THE YEAR 1929**

Project	Amount
1. Forest Park—Completion of tennis courts.....	\$ 24,822.00
2. Forest Park—Construction of new administration building.....	150,000.00
3. Forest Park—Construction of additional extension to service building..	70,000.00
4. Forest Park—Elimination of old roadway and construction of parking space	25,000.00
5. Forest Park—Construction of field house and comfort station at tennis courts	20,000.00
6. Forest Park—Equipment of new golf house at Myrtle Avenue and Dry Harbor Road	1,500.00
7. Forest Park—Reconstruction of pits at greenhouses	8,000.00
8. Forest Park—Construction of sidewalks along Main Drive and walks around bandstand	30,000.00
9. Forest Park—Construction of field house, Victory Field	18,000.00
10. Forest Park—Construction of sidewalks along Metropolitan Avenue...	25,000.00
11. Forest Park—Restoring areas along Main Drive and various other local- ities	66,150.00
12. Forest Park—Reconstruction and restoration of golf links.....	50,032.00
13. Forest Park—Extension of improvement around greenhouses and service building	25,910.00
14. Forest Park—Improvement of Horseshoe Drive	45,000.00
15. Forest Park—Improvement of Richmond Hill entrance.....	6,000.00
16. Forest Park—Installation of flood light equipment for skating on various lakes, natural and artificial	900.00
17. Forest Park—Chain link fence along northerly section of park, adjacent to, proposed Union Turnpike.....	16,590.00
18. Forest Park—Construction and improvement of North Drive roadway and walks	97,000.00
19. Forest Park—Construction of sidewalks and parking space adjacent to Victory Field	14,800.00
20. Forest Park—Reconstruction of fences	25,000.00
21. Forest Park—Construction of Museum	250,000.00
22. Forest Park—Extension and widening of Interboro Parkway	289,000.00
23. Forest Parkway—Reconstruction from Ashland Avenue to Jamaica Ave- nue	33,000.00
24. Anawanda Park—General Improvement	58,000.00
25. Anawanda Park—Construction and equipment of comfort station and shelter including planting	40,000.00
26. Astoria Park—General Improvement	48,882.00
27. Astoria Park—Construction of boundary fences	27,247.00
28. Bowne Park—General Improvement	70,087.00
29. Bowne Park—Construction of comfort station including planting	26,250.00
30. Baisley Park—General Improvement	77,385.00
31. Crocheron Park—General Improvement	351,400.00
32. Elmhurst Memorial Park—General Improvement	32,600.00
33. Flushing Park—Construction of comfort station, including planting....	37,300.00
34. Highland Park—Restoration of Ridgewood Reservoir Area.....	13,700.00
35. Highland Park—General Improvement	120,000.00
36. Highland Park—Construction of boundary fences	45,150.00
37. Jackson Park—Construction of boundary fences	3,500.00
38. Jacob Riis Park—Installation of life line piles	6,000.00
39. Jacob Riis Park—Widening of north roadway of Washington Avenue..	21,867.00
40. Jacob Riis Park—Reconstruction of jetties and bulkhead	57,750.00
41. Jacob Riis Park—Washington Avenue Improvement, sidewalks, etc., baseball diamonds, tennis courts, drinking fountains	35,000.00
42. Jacob Riis Park—General Improvement	1,000,000.00
43. King Park—Construction of new comfort station, including painting and removal of old comfort station.....	26,250.00
44. King Park—General Improvement	1,100.00
45. King Park Mansion—Improvements	3,000.00

Tax Note Request During 1929—Continued

Project	Amount
46. Kissena Park—General Improvement	210,000.00
47. Kissena Park—General Improvement of Kissena Park extension	300,000.00
48. Kissena Park—Elimination of swampy area at westerly end of park (\$25,000 appropriated on December 13, 1928—Cal. No. 43)	200,000.00
49. Lafayette Park—General Improvement of park and construction of comfort station	36,400.00
50. Leavitt Park—General Improvement	143,000.00
51. One Mile Pond Park—General Improvement	25,000.00
52. Playground, 5th Street, Long Island City—General Improvement	13,300.00
53. Rainey Park—General Improvement	24,465.00
54. Rainey Park—Construction of comfort station, including planting	26,250.00
55. Upland Park—General Improvement	65,300.00
56. Wayanda Park—General Improvement	10,000.00
57. Improvement of various triangular plots and malls	45,885.00
Total	\$4,493,772.00

DEPARTMENT OF PARKS, BOROUGH OF QUEENS

Parks

Park	Acreage	Location
Anawanda	5.1	Grandview Ave., Stanhope St. and Linden Hill Cemetery, Ridgewood.
Ashmead	0.27	Canal St., Park Pl. and South St., Jamaica.
Astoria	56.25	Barclay St., Hoyt Ave., Ditmars Ave. and East River, Astoria.
Baisley's Pond	75.00	Sutphin Blvd., Rockaway Blvd., and Baisley (Locust) Ave., South Jamaica.
Bowne	11.06	155th St., 29th Ave., 159th St. and 32nd Ave., Flushing.
College Point	1.14	5th Ave. and 18th St., College Point.
Crocheron	44.00	215th Pl., 34th (Maxwell) Ave., Little Neck Bay and 35th (Crocheron) Ave., Bayside.
Flushing Forest	1.02 538.00	Broadway and Main St., Flushing. Myrtle Ave., Union Turnpike, Park Lane (Ashland Ave.) and Cypress Hills Cemetery.
Highland	49.5	Highland Blvd., Cypress Ave., Vermont Ave. and Borough Line.
Jacob Riis	262.58	Neponsit, Rockaway.
Jackson	0.62	37th Ave. (Washington Pl.), 125th St., West of Parson Blvd., Flushing.
King	11.5	Fulton St., Alsop St., Ray St. and Shelton Ave., Jamaica.
Kissena Lake	219.24	Rost St., Oak Ave., North Hempstead Turnpike, Fresh Meadow Rd. and Jamaica Ave., Flushing.
Lafayette	0.9	Hillside Ave., 175th St., Warwick, Crescent and 173rd Sts., Hillside, Jamaica.
Leavitt	7.61	Myrtle Ave., Leavitt and Congress Sts., Flushing.
Linden	3.0	Lake St., Alburtis Ave., Hunt Pl. and Culver Pl., Corona.
Old Newtown Cemetery	0.87	Toledo and Court Sts., Elmhurst.
One Mile Pond	16.0	Merrick Road, near Central Ave., Jamaica.
Paupers' Burial Ground	3.2	Queens Ave., bet. 24th and 25th Sts., Flushing.
Rainey	8.09	Vernon Ave. at Graham Ave. and East River, Astoria.
Rockaway	17.87	Atlantic Ocean bet. Beach 110th and 126th Sts.
Upland	7.32	Highland Ave., 165th St. (Clinton Ave.), 85th (Glenn) Ave. and Upland P'kway. (Gothic Drive), Jamaica.
Wayanda	3.0	Hollis Ave. near Springfield Rd., Queens.
*Hillside	260.00	Jamaica.

* Acquired by City in 1928. Acquisition of 176 additional acres approved by Board of Estimate and Apportionment.

Triangles

Location

- 0.5 Jackson Ave. and 5th St., Long Island City.
- 0.1 Jackson Ave. and 11th St., Long Island City.
- 0.1 Jackson Ave. and 12th St., Long Island City.
- 0.8 Vernon and Mott Aves., Long Island City.
- 0.2 Hoyt and Flushing Aves., Astoria.
- 0.004 5th St., Woodside and Roosevelt Aves., Woodside.
- 0.5 College Ave. and 13th St., College Point.
- 0.01 Myrtle and Cypress Aves., Ridgewood.
- 0.27 169th (29th) St. and Northern Boulevard (B'way.),
Flushing.
- 0.01 Roosevelt and Elmhurst Aves. and Cast St., Jackson
Heights.
- 0.23 Stone St., Foster and Roosevelt Aves., Woodside.
- Luona Ave., Way Ave. and Hunt Pl., Corona.
- Borden Ave., Laurel Hill Blvd. and Laurel Hill Pl.,
Laurel Hill.
- Borden, Jay and Willow Aves., Long Island City.
- 108th (51st) St., Corona and 51st Aves. (Radcliffe
St.), Corona.
- Clermont and Hebbard Aves. and Fresh Pond Road,
Ridgewood.
- Hazel and Hood Sts. and Ditmars Ave., Astoria.
- Broadway, 19th St. and Fairbanks Ave., Elmhurst.
- Broadway, Fiske and Polk Aves., Winfield.
- Penelope St. at its junction with Woodhaven Ave.,
Woodhaven.
- Archer Ave., Twombly Road and 151st St., Jamaica.
- Archer Ave., Twombly Road and 151st St., Jamaica.
- Skillman Ave., Roosevelt (Greenpoint) Ave. and 54th
St., Woodside.

Parking Plots—(Centre of Streets)

- 0.3 Jamaica Ave., from Crescent St. to 3rd Ave., Astoria.
- 0.65 Hayes Ave., from Junction Ave. to 43rd St., Corona.
- 0.91 Nott Ave., from Vernon to Jackson Aves., Long Island
City.
- 0.09 4th Ave., between 17th and 18th Sts., College Point.
- 0.76 Rockaway Beach Blvd. (Washington Ave.) from
Adirondack Blvd. to Beach 149th St., Neponsit.
- 0.15 Beach 116th St. (5th Ave.) from Rockaway Beach
Blvd. (Washington Ave.) to Rockaway Park.

Parkways

- 2.5 Forest Parkway, Jamaica Ave. to Forest Park.