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Schedule Rating Office of New Jersey  
ENGINEERING DEPARTMENT  
NEWARK, N. J.

**Florham Park Borough**  
**Morris County, New Jersey**

JANUARY 15, 1944

- KEY**
- PROTECTED FIRE ZONE: Shown in Green.
  - NOTE.—For description of fire protection, etc., see other side.
  - Elevations range from 175 to 266 feet above mean sea level.
  - Water mains 8 inches and larger in diameter
  - Water mains 6 inches in diameter
  - Water mains 4 inches in diameter
  - Fire hydrants shown thus
  - Gate valves shown thus
  - Fire house shown thus
  - Fire apparatus designated by symbols thus:
  - (Y) Pumping engine and hose car
  - (H) Hose car
  - ⊕ Booster tank or tanks on above



# FLORHAM PARK BOROUGH, MORRIS COUNTY, NEW JERSEY.

Population — Census of 1940 was 1,609.

**IN GENERAL:** Located on the west bank of the Passaic River adjoining Madison and Chatham about 12 miles west of Newark. It is a residential community with no industrial establishments except 6 greenhouse nurseries. Area about 7.6 square miles. Elevations range from 175 to 266 feet. Main thoroughfares are concrete and macadam in good condition, other streets in developed areas are improved and in good condition. No railroad crossings or other features in the borough to seriously delay the response or operations of the fire department.

**WATER SUPPLY:** The Borough of Florham Park owns and operates the water supply works, distribution system and supplies water for domestic and fire protection purposes to territory within and adjoining the municipal limits. The system was installed during 1927 under the supervision of a consulting engineer. **Organization:** The water department is under the control of the mayor and council and in charge of an annually appointed superintendent appointed to the position in 1932. The superintendent, who is also a fireman, is competent and has had previous water works experience, and performs all duties with laborers as needed. Office is in the municipal building. A small truck and repair equipment is provided. Records consist mainly of operating data and a complete distribution map. **Supply Works:** Built in 1927; supply is obtained by deep well turbines from two of three deep wells and discharged to the distribution system with an elevated tank acting as an equalizer. **Well Stations:** Located on Elm Street west of Ridgedale Avenue as shown on the map. Station No. 1 houses Wells No. 1 and No. 3 and Station No. 2 houses Well No. 2. Buildings are small area 1-story brick structures with concrete floor and roof, with wood scuttles, wired glass windows, Venturi or turbine meters, coal stoves, and electric lights. Wiring is well installed in conduit. Housekeeping is good. No hand protection. Exposure negligible. Power is supplied through single overhead service and wiring is installed so as to provide automatic operation of either unit. Elevation of floors is 177 feet. Well No. 1 is 24 inches in diameter, 77 feet deep and equipped with an American deep well turbine, driven by a 40-h.p. Westinghouse electric motor, designed to yield 350 g.p.m., but capacity at time of inspection was approximately 180 g.p.m. Well No. 2 installed in 1943 is 12 inches in diameter, 81.5 feet deep, top elevation 180 feet, equipped with a Johnson deep well turbine, driven by a 30-h.p. U. S. electric motor, rated at 360 g.p.m., yielding, at time of inspection, 400 g.p.m. Well No. 3, originally designed as a test well, is 10 inches in diameter, 61 feet deep, equipped with an American Well Works deep well turbine driven by a 20-h.p. U. S. electric motor. This is a flowing well designed to yield 160 g.p.m. by pumpage. At time of inspection motor wiring was disconnected and well was being maintained in reserve. **Distribution System:** In one service consisting of an 8-inch artery with incomplete 4- and 6-inch gridiron and unsupported 6-inch dead ends. Service to a small area at Ridgedale and Greenwood Avenues is on a greenhouse booster service supplied by two 200-g.p.m. automatic booster pumps operating in conjunction with a 10,000-gallon pressure tank equipped with an air compressor. Three normally closed 4-inch emergency connections to the Madison system are maintained at Ridgedale Avenue, Greenwood Avenue and Brooklake Road; see map. **Elevated Tank:** Located on Pollard Avenue south of Brooklake Road as shown on map with base at elevation 256. Unit is steel, 16 x 25' 8" with hemispherical bottom on a 107-foot tower; capacity 100,000 gallons. Elevation of overflow about 382 feet. **Consumption:** The average and maximum daily consumption during 1942 was 116,000 and 249,500 gallons. Present average daily consumption is 250,000 gallons. Occasional hourly rate of consumption is considerably in excess of the maximum figure during the heavy draft by greenhouses. At time of inspection there were 366 services, all of which were metered. **Pipe:** All cast iron, tar coated, bell and spigot joint, Class 250, laid with a minimum 4-foot cover. No trouble reported from breaks, frozen mains or electrolysis. Total length, 105,187 feet; 0.17% 8-inch, 0.43% 6-inch, 0.40% 4-inch. **Gate Valves:** There are 91 on the system of Darling make, set with valve boxes at grade. Direction of operation is uniform. Valves are inspected only as necessitated by the routine system maintenance. **Hydrants:** There are 130 on the system of Darling make of standard type with 6-inch gated branches with one 4½- and two 2½-inch outlets. The 2½-inch outlets have National Standard threads and the steamer connections are 5 inches outside diameter with 4 threads per inch. They are inspected annually and were found in good condition at time of inspection. **Pressures:** A recording pressure gauge in water department office in municipal building showed pressures to be well maintained at 80 pounds. Readings taken at 7 well distributed hydrants showed pressures ranging from 48 to 78 with an average of 69 pounds. The average pressure available at emergency connections to the Madison system is 106 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on April 7th, 1933 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow and pressure during flow were as follows:

Ridgedale Ave. S. of Orange Ave., 1,300—78—43.  
West End and Riverside Drives, 500—70—48.

Brooklake Rd. and Milton Ave., 380—73—5.

Ridgedale Ave. 600 ft. E. of Central Ave., 680—48—18.

South Orange Ave. E. of Fernwood Rd., 760—78—15.

Hanover Rd. about 750 ft. E. of borough limits, 530—78—15.

\*\*Hanover Rd. about 2,300 ft. E. of borough limits, 520—68—\*.

\*\*Test conducted April 13th, 1932.

\*No reading taken.

**FIRE DEPARTMENT:** Volunteer organization of two companies under the control of the borough which owns quarters, apparatus and equipment and appropriated \$2,000 for the support of the department during 1943. Total active membership about 40, evenly divided between the two companies. Officers including a chief and three assistant chiefs, and in each company a foreman and an assistant foreman are selected annually by the companies and appointed by the mayor and council. A minimum of 10 members are available during the day and 16 members are available at night in Engine Company No. 1. A minimum of 6 members in day and 16 at night are available in Engine Company No. 2. **Company No. 1:** Located in basement of municipal building on Ridgedale Avenue north of South Orange Avenue as shown on map. Building is a 2-story joisted brick structure with steam heat, concrete apparatus floor, slug roof, telephone, and a manually operated electric siren. **Equipment:** One 1928 Hahn 400-g.p.m. triple combination pumping engine carrying one 200-gallon booster tank, 350 feet of booster hose, 1,000 feet of 2½ inch hose, 2 short ladders and minor equipment. This apparatus has a 1935 replacement engine and pump was rebuilt in 1943. One 1928 Ford auxiliary hose car carrying 450 feet of 2½-inch hose, 2 salvage covers, and miscellaneous minor equipment. **Company No. 2:** Located in Ridgedale Park section on Broadway west of Riverside Drive as shown on map. Building is a 2-story frame structure with concrete apparatus floor, steam heat, electric lights, and manually operated electric siren. No telephone. **Equipment:** One 1926 Hahn hose and booster car carrying one 200-g.p.m. booster pump, one 150-gallon booster tank, 800 feet of 2½-inch hose, 200 feet of booster hose, 2 short ladders and some minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. In addition to that carried on apparatus there is a reserve supply of 450 feet at Company No. 1 and 350 feet at Company No. 2. Hose is tested and repacked at normal pump operating pressures in part at drills and tested annually at 200 pounds pressure. Ten percent of hose is over 5 years old, 50% of hose is under 2 years old. Hose racks are provided for drying hose. **Operations:** The companies are governed by borough ordinance. Chief has control of apparatus at all times and of men at fires and drills. Motors are started on alternate days and there are 4 appointed drivers for each apparatus. **Drills and Training:** Company drills are held monthly, 20 drills being held during 1942. Drills are under the direction of the chief officers and consist of laying hose, pump operation and some ladder work. **Fire Methods:** Booster lines and hand extinguishers are used on incipient fires supported by direct hydrant and engine streams with shut off nozzles; 4 gas masks and 3 salvage covers are provided. No heavy stream appliances are installed. **Response to Alarms:** Both companies respond to all alarms and aid may be secured from the neighboring volunteer departments at Hanover Township, Madison, Chatham Borough, Morris Township and Morris Plains, and the part-paid department at Morris-town. **Building Inspection:** No routine inspections by the fire department except that complaints are investigated. **Records and Reports:** Records consist chiefly of a tabulation of the nature of alarms and attendance and a monthly report is made to the mayor and council. **Fire Alarms:** Telephoned through the Madison Exchange to homes or places of business of members near fire stations and sounded on electric sirens.

**POLICE DEPARTMENT:** Consists of a chief on call 24 hours a day and 2 patrolmen on duty alternate days. In addition there is one special officer and 60 auxiliary officers. A two-way radio-equipped patrol car is provided, operating in conjunction with Madison Police Department.

**BUILDING LAWS:** Code adopted June 16th, 1924 provides for the appointment of a building inspector and embodies some general construction restrictions, but is not sufficiently comprehensive from a fire protection standpoint. No fire limits are established and combustible roof coverings are not prohibited.

**EXPLOSIVES AND FLAMMABLES:** Local regulations are limited to an ordinance governing the installation and use of gas and oil fired heating equipment adopted November 3rd, 1941. State laws adequately cover the storage and shipment of explosives and flammables and the construction of motion picture booths. They also restrict the discharge of fireworks to responsible bonded parties.

**ZONING ORDINANCE:** None.