



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

# **Highland Park Section of Center Township Camden County, N. J.**

AUGUST 10, 1923

## **KEY**

PROTECTED FIRE ZONE: Shown in Green.

NOTE.—For description of fire protection, etc., see other side.

Elevations range from 10 to 20 feet above mean sea level.

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

- (H) Hose car
- (C) Chemical engine
- (A) Automobile apparatus
- (H) Hand drawn apparatus
- (C) Chemical tank or tanks on above



MP/3813/C20/214/923AB

**HIGHLAND PARK SECTION OF CENTER TOWNSHIP, CAMDEN COUNTY, N. J.**

Population about 400.

**IN GENERAL**—Located on a branch of the Philadelphia and Reading Railroad about three miles from Camden and adjoining Gloucester City on the east. A suburban town with no manufacturing. Area about 0.5 square miles. Elevations range from 10 to 20 feet above mean sea level. Streets are mostly graded and covered with cinders. Railroad crossings at grade have not interfered with response of fire apparatus.

**WATER SUPPLY**—Supplied from Gloucester City as an extension of its distribution system. Highland Park Water Company owns distribution system and purchases water from Gloucester.

**SUPPLY WORKS**—Supply derived from four old 8-inch wells, 175 to 180 feet deep with combined capacity of 2.5 to 3.0 million gallons per diem and two new 8-inch wells, 178 to 180 feet deep, with combined capacity of 2.5 million gallons per diem. At time of inspection water was pumped to reservoir and settling basin by direct suction from wells with low lift pumps and thence by high lift pumps to distribution systems of Gloucester, Brooklawn and Highland Park, with standpipe as an equalizer. A 3,000,000-gallon rapid sand filter in six sections and an aerator will be installed between settling basin and reservoir.

**Pumping Station**—Located on Johnston St. opposite Gaunt St. Elevation of floor about 5. Building one-story concrete block and brick, concrete floor, unprotected steel truss roof with gypsum tile and asbestos shingles. Hot air heating and electric lighting. Housekeeping good. Station operated in three shifts, with two men on each shift. Equipment includes two 120 K. W. Generators, each driven by a five-cylinder Busch-Sulzer Diesel engine. One each 1, 1.5 and 2 million gallon low lift single stage Buffalo centrifugal pumps, each driven by one 20 h.p. G. E. induction motor. One each 1, 1.5 and 2 million gallon high lift single stage Buffalo centrifugal pumps, each driven by one 40 h.p. G. E. induction motor. Current for driving units furnished by the above generators. One 10" x 8" Ingersoll Rand air compressor, driven by one 20 h.p. induction motor. Two 8" x 16" Vacuum pumps, each driven by one 5 h.p. induction motor.

**Suction Reservoir**—Located at pumping station, elliptical in shape; excavation and embankment, lined with brick and cement. Capacity said to be 1.25 million gallons.

**Standpipe**—Located as shown on map. Steel 30 x 125 feet high, capacity 662,700 gallons; base at about elevation 30.

**Consumption**—Maximum, minimum and average daily consumption for 1922 was 2,120,000; 1,575,270, and 1,707,524 gallons respectively.

**Distribution System**—See map. In one service.

**Pipe**—All cast iron, tar coated, bell and spigot joint. All laid with 2½- to 3-foot cover. No trouble from frozen mains or electrolysis. Total length 7720 feet, 63.5 per cent 6-inch; 36.5 per cent 4-inch.

**Gate Valves**—About seven gate valves on system but no records.

**Hydrants**—6 hydrants in service of Wood make, some with two 2½-inch outlets and some with two 2½-inch and one 4½-outlets, 4-inch barrels and 4-inch gated branches. Inspected twice a year by Fire Department.

**Pressures**—Recording and direct reading pressure gauges installed at pumping station. Charts of recording gauge show that pressures range from 46 to 56 lbs. Readings taken at two hydrants show pressures range from 51.1 to 53.1 with an average of 52.1 pounds.

**Fire Flow Tests**—Probable supply available for fire protection purposes was measured by means of Pitot tubes at the following locations, with the results as given: Location of test, discharge in gallons per minute, pressure before flow and pressure during flow are as given consecutively: Highland Blvd. at City Line 394, 54.1, 11.8; Highland Blvd. and Hazel Ave. 241, 51.1, 5.3.

**FIRE DEPARTMENT**—Volunteer organization not under control of fire district. Chief elected annually by members and not confirmed. Assistant chief, engineer and assistant engineer appointed annually by chief. Company owns house, apparatus and equipment. Appropriation from Township for 1923, \$900. One Company with about 40 active members, about 10 of whom are employed in town.

**Highland Park Fire Company**—Located at corner of Highland Blvd. and Sylvan Ave. Building one story frame, composition roof, wood floor, electric lighting and stove for heating. Apparatus includes one automobile combination chemical and hose car, International Chassis converted with two 35 gallon chemical tanks, 150 feet of chemical hose, 800 feet of 2½-inch hose, two short ladders and small amount of minor equipment. One hand drawn Ajax 60 gallon two wheeled chemical engine.

**Hose**—All 2½-inch hose is C. R. L. 200 feet having Jones snap couplings and 600 feet with screw couplings, no reserve hose. After use at fires and drills hose is washed and dried on grass.

**Operations**—Company governed by by-laws which are printed and distributed. Chief has full control of apparatus at all times and men at fires and drills; Chief has no power to suspend members but can prefer charges. Motor turned over at least once a week. Six men trained to act as drivers.

**Drills and Training**—Held monthly; consist of stretching hose, making and breaking couplings, and handling ladders; members fined .50 for not responding.

**Response to Alarms**—Company responds to all alarms of fire. Outside aid may be secured from Gloucester.

**Fire Methods**—Supported chemical streams are used on small fires and 2½-inch hydrant streams used for other fires.

**Reports and Records**—Chief keeps record of all fires and drills, making monthly reports to Camden County Firemen's Association.

**Fire Alarms**—Telephoned to fire house and sounded on split locomotive tire.

**POLICE DEPARTMENT**—Constable on duty in day time and special officer at night. No patrol or ambulance.

**BUILDING LAWS**—None.

**EXPLOSIVES AND INFLAMMABLES**—No regulations.