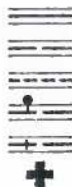


**KEY**

- PROTECTED FIRE ZONE: Shown in Green.
- NOTE.—For description of fire protection, etc., see other side.
- Elevations range from 0 to 95 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) Automobile combination pumper and hose car
- (O) Booster tank or tanks on above



THE FIRE INSURANCE RATING ORGANIZATION OF N. J.  
ENGINEERING DEPARTMENT  
NEWARK 2, N. J.

**Brielle Borough**  
**Monmouth County, New Jersey**

FEBRUARY 28, 1949

**BRIELLE BOROUGH, MONMOUTH COUNTY, NEW JERSEY.**

Population — 1940 Census — 961.

**IN GENERAL:** A seashore resort on the New York and Long Branch Railroad and the Manasquan River, south of Manasquan. Area about 18 square miles. Elevations range from 0 to 95 feet. Main roads improved, others gravel in fair to good condition. Railroad crossings at grade are said never to have interfered with response of fire apparatus.

**WATER SUPPLY:** Water for domestic and fire protection purposes is furnished by the borough which owns supply works and distribution system. **Organization:** System is in charge of a superintendent who operates pumping station. He is appointed annually by the borough. On receipt of alarm of fire superintendent responds to pumping station and operates pumps. All additions and extensions are made by local plumber. A well-equipped truck is provided. Records showing valve and hydrant locations are fair. **Supply Works:** Constructed in 1936 and 1937. Water is pumped from one well 132 feet deep with a 32-inch casing by two deep well pumps which discharge either into a 36,000-gallon suction reservoir or directly to high lift pumps. High lift pumps take suction from reservoir and pump directly into system with elevated tank acting as equalizer. There is an 8-inch closed metered emergency connection to the Manasquan distribution system. **Pumping Station:** Located as shown on map. Elevation of pump room floor 36. Building is a one-story brick structure with a composition roof, concrete floor, coal stove, and electric lights. Adjacent to this structure is one of similar construction housing the suction reservoir. **Equipment:** Two 200-g.p.m. Worthington deep well pumps driven by two 7½-h.p. U. S. electric motors. Two 190-g.p.m. Worthington high lift pumps driven by two 10-h.p. G. E. electric motors. One Allis-Chalmers 35-k.w. A. C. generator driven by a 45-h.p. Buda gasoline motor with the necessary switchboard for the operation of pumps by this generator. A 500-gallon gasoline tank is buried outside of the station. **Distribution System:** In one service except for a small section in the northerly part of the borough adjoining Wall Township and Manasquan. The system in this section is owned by a private development company and is supplied from the Manasquan distribution system. Supply main is 10-inch to a 6-inch which supplies an 8-inch loop and artery. Gridiron is all 6-inch. **Elevated Tank:** A 100,000-gallon tank 26 feet in diameter with an ellipsoidal bottom on a 100-foot steel tower. Elevation of base 36 feet. Elevation of overflow 163.5 feet. **Consumption:** The average and maximum daily consumption during 1947 was estimated to be 0.101 and 0.188 m.g. There were 465 services on October 1, 1948, of which about 17% were metered. **Pipe:** Cast iron, tar coated, bell and spigot joint laid with a 5-foot cover. No trouble from frozen mains or electrolysis. Total length, 73,800 feet; 1% 10-inch, 38% 8-inch, and 61% 6-inch. **Gate Valves:** There are 102 on the system of R. D Wood make set with iron boxes to grade All turn left to open They are inspected yearly **Hydrants:** There are 87 on the system of Mathews manufacture. All have two 2½-inch and one 4½-inch outlets Small outlets are National Standard but large outlets are 4½ inches outside diameter with 6 threads per inch. All but 16 have 4-inch barrels and 4-inch gated branches; they have 6-inch barrels and 6-inch gated branches. Hydrants are inspected annually. Those operated during inspection were found to be in good condition. **Pressures:** Gauge in pumping station showed a pressure of 53 pounds Pumps start automatically when pressure drops below 50 pounds Readings taken at five hydrants widely distributed showed pressures ranging from 30 to 63 pounds with an average of 51 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on October 26, 1948 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

Riverview Dr. and State Highway No. 35, 650—58—20.  
Green and Manasquan Aves., 570—63—15.  
Rankin and Schoolhouse Rds., 430—30—9.  
Forrest Rd. 200 ft S. of Riverview Dr., 360—47—4.  
Park Ave. and South St., 630—60—21.

**FIRE DEPARTMENT:** A volunteer organization under partial control of the borough which appropriated \$1,500 for the support of the department in 1948. Borough owns house and equipment. There are 27 members including a chief, an assistant chief, and a foreman, of whom about 10 are available at all times. Officers are elected annually and approved by the council. **Companies:** All companies are located in borough hall on the corner of Longstreet Avenue and Cardenza Avenue. Building is a two-story stuccoed frame structure with tar and gravel roof, concrete apparatus floor, hot water heat, electric lights, and telephone. **Equipment—Engine No. 1:** A 1927 Maxim 500-g.p.m. triple combination pumping engine carrying an 85-gallon booster tank, 200 feet of booster hose, 300 feet of 1½-inch hose, 1,000 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. **Engine No. 2:** A 1934 Maxim 500-g.p.m. triple combination pumping engine carrying a 100-gallon booster tank, 200 feet of booster hose, 300 feet of 1½-inch hose, 1,000 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is tested twice a year at 200 pounds and shifted at fires and drills Total supply is 2,000 feet, of which 35% is over 5 years old. **Operations:** Company is governed by own by-laws and local ordinances. Chief has control of apparatus at all times and of men at fires and drills. He can suspend men pending a hearing of charges before company. Twelve men who are approved by borough act as drivers. Motors are started weekly. **Drills and Training:** Drills are held on an average of twice a month and consist of pump operation and hose laying. **Fire Methods:** Booster streams are used on incipient fires reinforced by engine and hydrant streams with shut-off nozzles. No gas masks, heavy stream appliances, nor salvage equipment. **Response to Alarms:** Both pieces of apparatus respond to alarms in borough and one piece to alarms in Wall Township. Outside aid may be secured from Point Pleasant and Manasquan. **Building Inspection:** None by department. **Records and Reports:** A record is kept of all fires and a yearly report is submitted to borough. **Fire Alarm System:** Alarms of fire may be telephoned to the police department in borough where there is usually someone on duty or to homes of various firemen and are sounded on siren on fire house.

**POLICE DEPARTMENT:** Consists of a chief and 3 patrolmen working in eight-hour shifts and 4 special officers A radio car is provided.

**BUILDING LAWS:** Code adopted April 4, 1938 provides for the appointment of a building inspector, requires the approval of plans, and provides for the issuance of permits for building operations and embodies numerous valuable features. The regulations are not as comprehensive as the Code of Suggested Ordinances for Small Municipalities recommended by the National Board of Fire Underwriters It does not prohibit wood shingles nor establish fire limits

**FIRE PREVENTION LAWS:** No municipal regulations State laws adequately cover the storage and shipment of explosives, the transportation of flammables, and the construction of motion picture booths. They also restrict the discharge of fireworks to responsible bonded parties.

**ZONING ORDINANCE:** Adopted April 8, 1940.