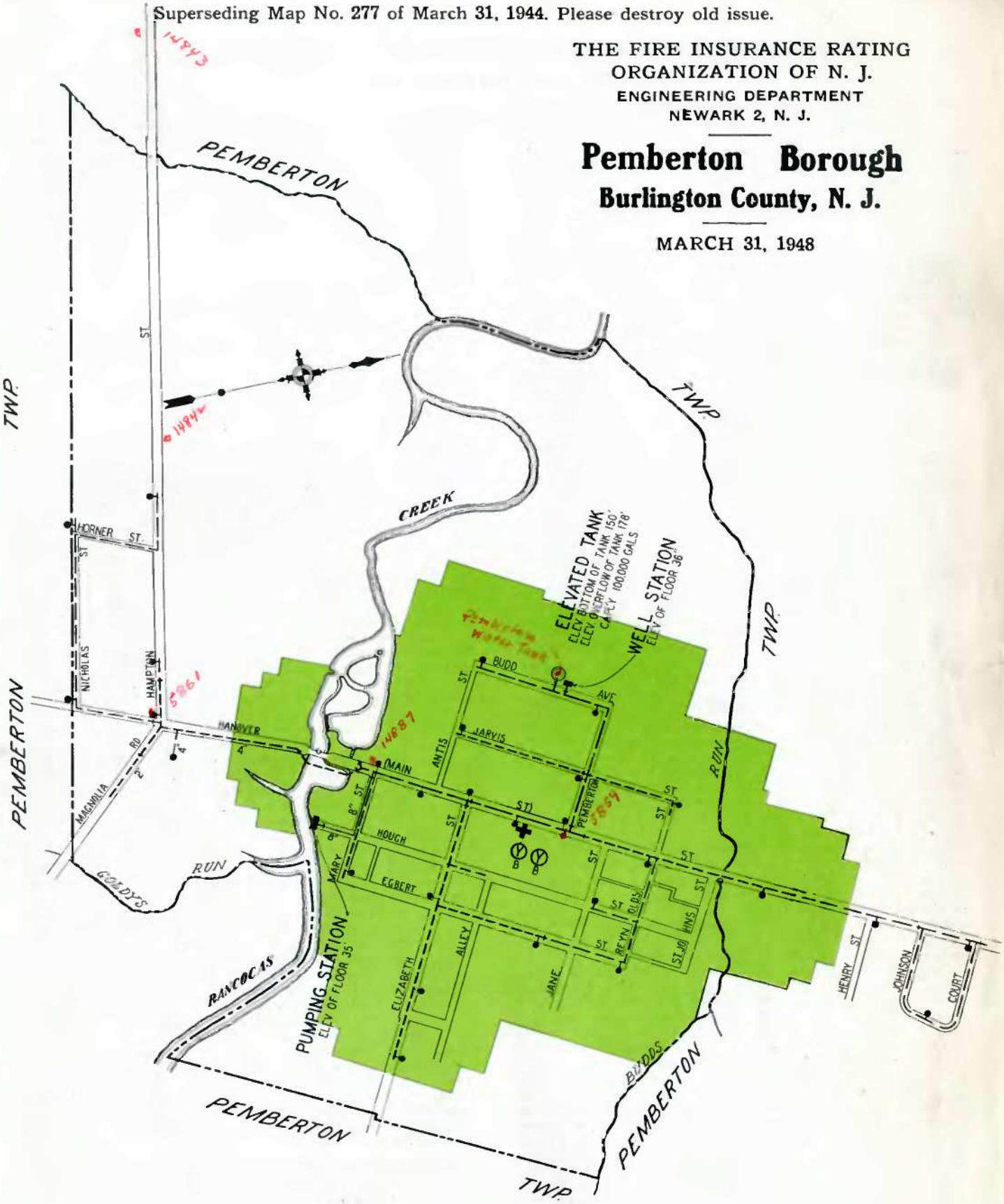
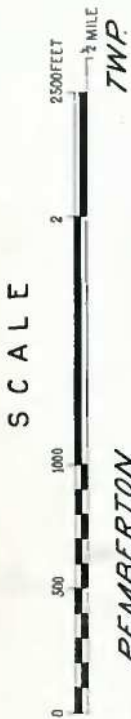


Superseding Map No. 277 of March 31, 1944. Please destroy old issue.

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

Pemberton Borough Burlington County, N. J.

MARCH 31, 1948



KEY

PROTECTED FIRE ZONE: Shown in Green.

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

Elevations range from 35 to 75 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:

- Automobile combination pump and hose car
- Booster tank or tanks on above



PEMBERTON BOROUGH, BURLINGTON COUNTY, NEW JERSEY.

Population — 1940 Census — 906.

IN GENERAL: Located near the junction of the Amboy and Long Branch Divisions of the Pennsylvania Railroad about 6 miles east of Mount Holly. It is a small residential community and trading center for the surrounding agricultural sections. Area about 1.3 square miles. Elevations range from 35 to 75 feet. Roads are macadam and dirt in fair to good condition. Two grade crossings within the borough are reported not to have delayed the response of the fire department.

WATER SUPPLY: The Borough of Pemberton owns and operates the pumping station, distribution system, and appurtenances and supplies water for domestic and fire protection purposes to territory within the municipal limits and a small adjoining area in Pemberton Township to the north. **Organization:** The system was originally installed in 1894 by the Pemberton Township Water, Sewer, and Light Company and was purchased by the municipality in 1930 and improved under the supervision of a consulting engineer. The system is under the control of the mayor and council and in charge of a competent superintendent. Local plumbers make extensions, repairs, and service connections. There is a supply yard and shop. Records are very incomplete. **Supply Works:** Water is pumped from the North Branch of the Rancocas Creek and from an 8-inch well 186 feet deep yielding 150 g.p.m. and discharged to distribution system with an elevated tank functioning as an equalizer and providing storage. **Rancocas Supply:** The drainage area of the stream is 111 square miles and available records for the period from 1923 to 1928 indicate an average monthly discharge at Pemberton of 26.5 m.g.d. and a minimum monthly discharge of 14.2 m.g.d. **Well Supply:** Well, located on Budd Avenue as shown on map, is automatically operated by a 150-g.p.m. Layne deep well turbine driven by a 15-h.p. U. S. electric motor. Pump is housed in a small 1-story frame station with concrete floor, asbestos shingled wood roof, electric lights, and heat. One 1-quart vaporizing extinguisher provided. Housekeeping good. Exposures negligible. Wiring in conduit. Elevation of floor 36. **Pumping Station:** Erected in 1930. Located on the north bank of the Rancocas Creek at Hough Street as shown on map. Building is a small area 1-story concrete structure with asbestos shingled wood roof, concrete floor, electric lights, and electric stove. No hand protection. Exposures negligible. Wiring is standard, in conduit. General care and cleanliness are good. Elevation of operating floor about 35. **Equipment:** Two 300-g.p.m. 250-foot, 1,745-r.p.m. De Laval 2-stage centrifugal pumps, one driven by a 30-h.p. 220-volt 3-phase G. E. electric motor, and one by a gasoline engine. Pumps are equipped with independent 4-inch suction lines extending to a screened intake under station. Pump discharge lines are 3-inch and converge at the 8-inch supply line. Low intake level due to dam repairs has on occasion necessitated direct suction from the creek through four 4-inch hard rubber suctions which are maintained at the station. Power is supplied to the transformers over a single overhead service from the local Diesel operated electric plant which is equipped with one 200-k.w., one 72-k.w., and one 135-k.w. generator. Peak generating load is 130 k.w. **Distribution System:** In one service with 8-inch and 6-inch pipe between pumping station and tank and 4-inch dead end mains comprising the balance of the system. Arteries and gridiron are poor. **Elevated Tank:** Located on Budd Avenue as shown on map. Unit is steel with hemispherical bottom, on a 100-foot steel tower with base at about elevation 50. Elevation of overflow about 178. It is 22 feet in diameter and 28 feet in height, with a capacity of 100,000 gallons. **Consumption:** The average and maximum daily consumption is estimated to be 82,000 and 115,000 gallons respectively. At the time of inspection there were 335 services, none of which were metered. **Pipe:** All cast iron, tar coated, bell and spigot joint laid with about a 4-foot cover. No recent trouble from frozen mains or electrolysis. Total length, 10,400 feet; 57% 8-inch, 23 1% 6-inch, and 71.2% 4-inch. **Gate Valves:** There are 10 on the system of unknown make, set with iron boxes at grade. Direction of operation is believed to be uniform. Gate valves have never been inspected. **Hydrants:** There are 18 hydrants of Ludlow and Mathews makes on the system of standard type with 4-inch ungated branches and one 2½-inch and one 4½-inch outlets, except 2 hydrants in the residential district which have 6-inch gated branches and one additional 2½-inch outlet. All outlets are National Standard. Direction of operation

is uniform. They are operated monthly during the summer months and inspected annually. At the time of the inspection they were in good condition. **Pressures:** No pressure gauge on system. Readings taken at 3 well distributed hydrants with one pump running showed pressures ranging from 60 to 62 pounds with an average of 60 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on June 26, 1935 and September 28, 1942 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow, and pressure during flow were as follows:

June 26, 1935—

Hanover and Pemberton Sts, 590—70—58

Hanover St N of St Johns St, 200—68—*

Egbert and Reynolds Sts., 220—61—*

Elizabeth St. 350 ft. W. of Borough Limits, 168—81—*.

September 28, 1942—

Nicholas and Hanover Sts, 140—60—*.

Nicholas St and Horners Way, 120—60—*.

Hampton and Hanover Sts, 170—62—*.

*No reading taken

FIRE DEPARTMENT: Volunteer organization of one independent company; not under direct control of the borough. The company owns house, apparatus and equipment and the borough appropriated \$1,250 for the support of the department during 1947. Total active membership 104, of whom a minimum of 16 are available at all times. Officers, including a chief and two assistant chiefs, are elected annually by the company and confirmed by the mayor and council. **Company—Good Will Fire Company No. 1:** Located on Hanover Street south of Pemberton Street as shown on map. Building is a 2-story brick structure with slate roof, concrete apparatus floor, hot water heat, with oil-fired boiler in basement, overhead doors, electric lights, and siren on tower. **Equipment:** One 1938 Buffalo 500-gallon pumping engine carrying a 200-gallon booster tank, 250 feet of booster hose, 800 feet of 2½-inch hose, 500 feet of 1½-inch hose, 2 short ladders, 2 gas masks, and fair minor equipment. One Reo-Northern 300-g.p.m. triple combination pumping engine carrying two 35-gallon booster tanks, 150 feet of booster hose, 100 feet of 1½-inch hose, 500 feet of 2½-inch hose, and meager minor equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. No reserve hose. No suitable provisions for drying. Of the total, 1,200 feet is less than 5 years old. It is tested and repacked in part at drills at 200 pounds pressure with open nozzles. Hose appeared to be in fair condition. **Operations:** Company is governed by by-laws. Chief has control of apparatus at all times and of men at fires and drills. Motors are started on alternate days. All active members are trained to drive apparatus. **Drills and Training:** Company drills are held monthly under the direction of the chief. They consist of pump operation, hose laying, and some ladder work. **Fire Methods:** Booster streams are used on incipient fires supported by hydrant or engine lines with open or shut-off nozzles with small tips. **Response to Alarms:** Company responds to all borough alarms and furnishes aid to surrounding municipalities. Aid may be secured from Mount Holly, Browns Mills, and Fort Dix. **Building Inspection:** No routine inspections by department, but officers investigate complaints. No suitable regulations to effect enforcement of recommendations. **Records and Reports:** Fairly complete records of all alarms and drills are maintained in a standard log book. Annual reports are made to the mayor and council. **Fire Alarms:** Alarms are telephoned to homes or places of business of chief and members and sounded on siren located on roof of fire house.

POLICE DEPARTMENT: Consists of a chief, one patrolman on call at night and on duty week-ends, and 10 specials. Municipality is covered by State Police from Wrightstown 6 miles distant.

BUILDING LAWS: None.

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: None.