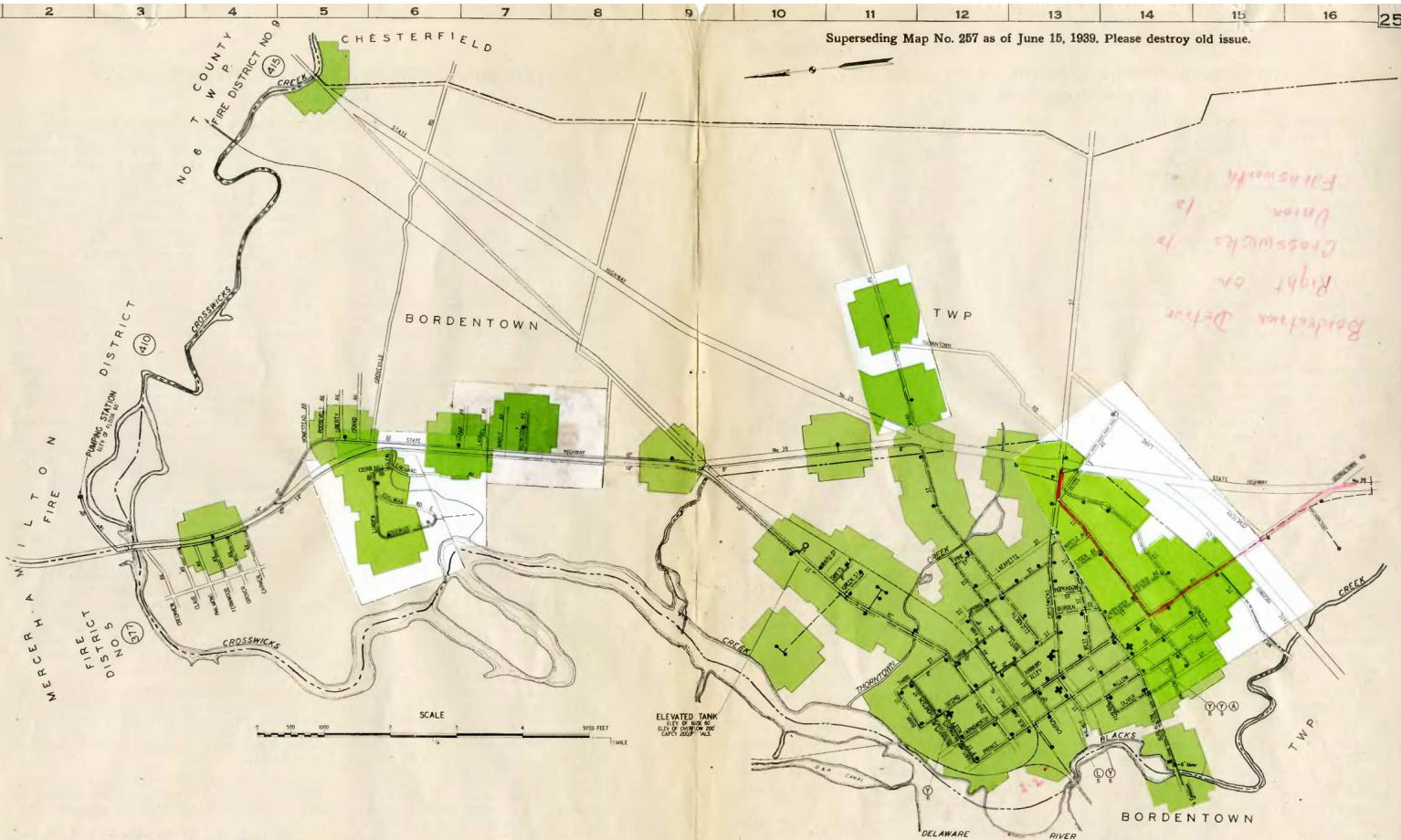


Superseding Map No. 257 as of June 15, 1939. Please destroy old issue.



**KEY**  
 PROTECTED FIRE ZONE: Shown in Green.  
 Note — For description of fire protection, etc., see other side.  
 Elevations range from 0 to 60 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:  
 (V) Pumping engine and hose car  
 (L) Ladder truck  
 (A) Ambulance, Squad or Auxiliary car  
 (Q) Booster tank or tanks on above

Schedule Rating Office of New Jersey  
 ENGINEERING DEPARTMENT  
 NEWARK, N. J.  
 CITY  
 OF  
**Bordentown**  
 Burlington County, New Jersey  
 AUGUST 31, 1944

August 31, 1944.

## CITY OF BORDENTOWN, BURLINGTON COUNTY, NEW JERSEY.

Population—Census of 1940—4,223.

**IN GENERAL:** Located on the Delaware River and the Pennsylvania Railroad about 7 miles south of Trenton. It is a residential community with 7 small industries employing about 500. Area about 1.4 square miles. Elevations range from 0 to 60 feet. Main thoroughfares are concrete and macadam in good condition. Others are gravel in fair to good condition. Railroad crossings at grade are such that they should not interfere with the response of fire apparatus, and other features are such that there should be no unusual delays.

**WATER SUPPLY:** City of Bordentown owns and operates the supply works, transmission mains, distribution system, and appurtenances, supplying water for domestic and fire protection purposes to the City of Bordentown and adjoining sections of Bordentown Township, and sells water at wholesale to the Borough of Fieldsboro to the west. **Organization:** The system is under the supervision of the commissioner of public works and is in charge of a superintendent who is appointed for a 4-year term. The superintendent is in charge of the streets, water system and sewage disposal plant, and there are 3 engineers at the pumping station one of whom is on duty at all times. A well equipped truck is provided, but the superintendent does not respond to alarms of fire unless summoned. Pumping station is notified by telephone on receipt of alarms of fire. Records are incomplete as to details of distribution system and inspection data. **Supply Works:** Built in 1912. Water is obtained from 35 free flowing wells 4 and 6 inches in diameter, and about 80 feet deep which yield about 1.60 m.g.d. Wells discharge under natural head to two 36-inch concrete collecting mains connected with a 75,000 gallon receiving basin, whence the supply is pumped to the distribution system through parallel 10-inch and 14-inch supply mains about two miles in length with an elevated tank acting as an equalizer. **Pumping Station:** Located in Hamilton Township as shown on map. Building is a moderate area one-story brick structure with a slate covered wood roof, concrete and wood floor, hot water heat, electric lights, and telephone. Hand protection consists of a 1½-inch standpipe connection with 1½-inch hose. Exposure from woods only is mild. Wiring is in conduit. Housekeeping and general condition good. Elevation of pump room floor about 60 feet. **Equipment:** One 0.95 m.g.d Aldrich triplex pump driven by a 90-h.p. Fairbanks-Morse Diesel engine. One 0.65 m.g.d. DeLaval tandem centrifugal pump driven by a 50-h.p. electric motor. One 1.15 m.g.d. 2-stage DeLaval centrifugal pump driven by a 100-h.p. electric motor. One Worthington starting compressor driven by a 3-h.p. Robbins & Myers electric motor and in reserve one F. M. starting compressor driven by a 2-h.p. F. M. gasoline engine. **Distribution System:** In one service consisting primarily of incomplete 4-inch and 6-inch dead ends supplied through parallel 10-inch and 14-inch supply mains. See map. **Elevated Tank:** It is steel, 30 feet in diameter by 40 feet high on a 100-foot reinforced con-

crete tower with a capacity of 200,000 gallons. Elevation of base 60 feet. Elevation of overflow 200 feet. **Consumption:** The average daily consumption for the year ending April 30th, 1944 was 0.815 million gallons. It is estimated that the maximum daily consumption is 1.20 million gallons. At time of inspection there were about 1,500 services, about 25% of which are metered. **Pipe:** All cast iron, tar coated, bell and spigot joint, laid with about a 4-foot cover. Total length, exclusive of 10-inch and 14-inch supply mains terminating at elevated tank, and one 8-inch supply main extending through the township in Route 39, 69,587 feet; 8.00% 10-inch, 5.12% 8-inch, 54.73% 6-inch, and 32.15% 4-inch. No trouble reported from frozen mains or electrolysis. **Gate Valves:** There are 83 on the entire system of Wood make set with iron boxes at or near grade. The direction of operation is uniform with two exceptions. Valves are inspected occasionally. Fire department is notified when valves affecting hydrant supply are operated. **Hydrants:** There are 80 on the system of R. D. Wood make of standard type. About 50% have two 2½-inch outlets and 4-inch branches, and the balance have one 4½-inch outlet in addition, and 4-inch or 6-inch branches. All branches are gated. Hose outlet threads are National Standard and steamer outlets have 4 threads per inch and 5¼ inches outside diameter. Hydrants are inspected twice annually and were found to be in good condition at time of inspection. **Pressures:** Direct reading gauge in pumping station at about elevation 65 showed 82 pounds at noon on day of inspection. Readings taken at 16 hydrants showed pressures ranging from 33 to 61 pounds with an average of 47 pounds. **Fire Flow Tests:** Probable supply available for fire protection purposes was measured on June 13th, 1944 by means of Pitot tube. Location of hydrant, discharge in gallons per minute, pressure before flow and pressure during flow were as follows:

- Farnsworth Ave. and Church St., 840—50—25.
- Bank and Third Sts., 890—50—15.
- St. Joseph's Home N/E end opposite Green St., 330—55—9.
- Elizabeth and Spring Sts., 1,000—52—23.
- Crosswicks St. W. of State Highway Route No. 39, 200—33—4.
- Crosswicks St. opposite Union St., 315—35—4.
- Crosswicks St. at S/E corner State Highway Route No. 39, 170—\*—\*.
- Dead End N. of Crosswicks St., W. of State Highway Route No. 39, 200—43—\*.
- Willow and Union Sts., 500—47—7.
- Burlington St. at Blacks Creek, 290—61—5.
- Disposal Plant S/W of State Highway Route No. 39 and Farnsworth Ave., 120—60—\*.
- State Highway Route No. 39 and Farnsworth Ave., 120—48—\*.

## CITY OF BORDENTOWN, BURLINGTON COUNTY, NEW JERSEY.

*Continued.*

Farnsworth Ave. opposite Cemetery Lane, 170  
—43—\*.

\* No reading taken.

**FIRE DEPARTMENT:** A volunteer organization of 5 companies under partial control of the city which owns fire houses and equipment, with the exception of the hook and ladder company house, and makes an annual appropriation for the support of the fire department. Total membership 225 including a chief, 4 assistant chiefs, 5 foremen and 10 assistant foremen who are elected annually by the respective companies and confirmed by the city commissioners. An average of 10 men in each company are available at all times. The membership is about evenly divided between the five companies. **Companies—Delaware Fire Company No. 2:** Located in city hall on Crosswicks Street between Second Street and Farnsworth Avenue. Building is a 2-story brick structure with a slate roof, wood apparatus floor, electric lights, steam heat, telephone, and siren. **Equipment:** A 1918 American La France 750-g.p.m. triple combination pumping engine carrying a 130-gallon booster tank, 200 feet of booster hose, 800 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. **Hope Hose Company No. 1:** Located on Burlington Street between Farnsworth Avenue and Prince Street. Building is a 2-story frame structure with a metal roof, concrete apparatus floor, electric lights, telephone, and siren. **Equipment:** A 1926 500-g.p.m. triple combination pumping engine carrying a 75-gallon booster tank, 150 feet of booster hose, 500 feet of 2½-inch hose, 2 short ladders and fair minor equipment. **Humane Fire Company No. 1:** Located adjacent to Hope Hose Company. Building is a 2-story frame structure with a metal roof, concrete apparatus floor, steam heat, electric lights, telephone, and siren. **Equipment:** One 1939 Pirsch Diamond T 500-g.p.m. triple combination pumping engine carrying a 250-gallon booster tank, 200 feet of booster hose, 950 feet of 2½-inch hose, 300 feet of 1½-inch hose, 2 short ladders, a deluge set, and some minor equipment. **Citizens Hook and Ladder Company:** Located on Walnut Street between Farnsworth Avenue and Prince Street. Building is a 2-story brick structure with a metal roof, wood apparatus floor, electric lights, steam heat, telephone, and siren. **Equipment:** A 1932 Boyer city service ladder truck carrying 7 ladders ranging from 12 to 45 feet and totaling 170 feet, a 100-gallon booster tank, a 100-gallon per minute booster pump, 150 feet of booster hose, 75 feet of 2½-inch hose and fair minor equipment. **Weccacoe Hose Company No. 2:** Located on Second Street near McKnight Alley. Building is a 2-story brick structure with a slate roof, concrete apparatus floor, hot water heat, electric lights, telephone, and siren. **Equipment:** A 1929 American La France 500-g.p.m. triple combination pumping engine carrying a 150-gallon booster tank, 200 feet of booster hose, 900 feet of 2½-inch hose, 2 short ladders, and fair minor equipment. **Additional Equipment:** In addition to the equipment listed

above, there is a considerable amount of O.C.D. equipment including two 500-g.p.m. trailer pumping units, two 500-g.p.m. skid mounted pumping units, 800 feet of 1½-inch single jacketed hose and 1,600 feet of 2½-inch single jacketed hose. The skid mounted pump has been installed on a 1½-ton commercial truck chassis which has been converted to fire department use. A Chevrolet truck is being converted to an auxiliary car and will carry miscellaneous equipment. **Hose:** All 2½-inch hose is C.R.L. with National Standard screw couplings. It is tested about three times each year at 120 pounds pressure, dried on apparatus floor and shifted at fires and drills. About 80% of the fire hose is less than 3 years old. There is none in reserve. **Operations:** Department is governed by borough ordinance and company bylaws. Chief has control of apparatus at all times and of men at fires and drills. He may not suspend members, but may prefer charges to foremen of each company who may suspend members pending a hearing on charges. Thirty-six members have been assigned to drive and operate apparatus. **Drills and Training:** Drills held monthly under the supervision of the chief consist of pump operation, hose laying, and use of equipment. Some members in each company have attended the Burlington County Fire School. **Fire Methods:** Booster streams are used on incipient fires reinforced by engine and hydrant lines with shut-off nozzles. One deluge set 5 salvage covers, and 6 all-service gas masks are provided. **Response to Alarms:** Entire department responds to all alarms within the city limits. One engine company is assigned to answer alarms in Fieldsboro and Bordentown Township. Outside aid may be secured from White Horse, Burlington, and Florence Township. **Building Inspection:** The fire chief makes a semi-annual inspection of all mercantile buildings. **Records and Reports:** A complete record of all fires is kept and monthly reports are submitted to the fire commissioner and to the Burlington County Fire Marshal. **Fire Alarms:** Alarms of fire are telephoned to police headquarters where there is someone on duty at all times.

**POLICE DEPARTMENT:** Consists of a chief, 1 sergeant, 2 patrolmen, and 1 special officer who is on duty 6 nights each week. There are 15 special police available. Police car not radio equipped provided. There are 15 fire police under the direction of a captain.

**BUILDING LAWS:** No municipal regulations. The city engineer has been appointed building inspector but investigates hazardous conditions only.

**EXPLOSIVES AND FLAMMABLES:** No municipal regulations. 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.