

allowed inside buildings, in cellar or basements, unless absolutely necessary, and unless special permit in writing shall be previously granted by the Board. In all such cases the outlet pipe shall be trapped, and shall discharge into an open shaft outside the building, which shall communicate with the drain leading to the sewer by a properly ventilated trap. Special means shall, if required, be provided to ensure a proper supply of water to the said traps.

#### Gratings.

All inlets to drains or openings for ventilation shall be efficiently protected by proper gratings of ample area. The aggregate area of the apertures in any grating covering a ventilation opening shall not be less than the sectional area of the pipe or drain to which such grating is fixed.

#### Flushing Drains.

Every drain shall be so arranged as to be self-cleansing, in order that it may remain at all times free from deposit. Where this cannot be effected without flushing, proper flushing apparatus shall be provided in the manner directed by the Inspector.

#### Rain-water Pipes.

Rain-water pipes shall not communicate directly with any drainpipe, but must discharge over an open gully provided with proper trap and ventilator, or into an open channel leading to such trap and ventilator. No rain-water shall be discharged into any sewer unless with permission in writing from the Auckland and Suburban Drainage Board's Engineer.

#### Inspector may visit Premises.

Any officer of the Board acting under the Board's authority may enter at all reasonable hours into any house or property connected with any sewer, in order to examine whether the drains and fittings in such house and property are in proper order. Any person refusing such admission, or in any way hindering such officer in the execution of his duty, shall be guilty of an offence, and liable on conviction to a penalty.

#### Erection of W.C. and Removal of Earth-closets.

Immediately upon the completion of the connection between any property and any sewer, the owner or occupier of the said property shall, within thirty days after being required by the Board by notice to do so, construct a proper water closet or closets in accordance with these by-laws; and immediately after such closet or closets shall have been completed shall, if required, empty, cleanse, and fill in all cesspits and other receptacles for sewage matter, and remove all privies and earth-closets and old drains on the said property, to the satisfaction of the Inspector.

#### Obstructions.

All openings for ventilation made in accordance with these regulations or by order of the Inspector shall at all times be kept open and free from obstruction. Every occupier shall at all times ensure that all openings to the drains on his premises, whether for ventilation or otherwise, and all traps and other fittings, are at all times in good order, clean and free from obstruction.

#### Plumbing Licenses.

No person shall do any plumbing-work in connection with the drainage of any property unless he shall have been licensed by the Board as an "authorized plumber," and shall have engaged to conform to and comply with these by-laws, for which an inspection fee of 2s. 6d. shall be paid to the Board.

For every license issued for a master drain-layer there shall be paid to the Clerk the sum of £1 ls. per annum, or in proportion.

#### Licenses.

All applications for licenses under this by-law shall be made to the Board. All such applications shall be submitted at least three days before the sitting of the Board. Every applicant for a plumber's license shall produce to the Board his Dominion license.

#### Licensed Drain-layers' Work.

It shall not be lawful for any person other than a licensed drain-layer duly licensed under this by-law to execute any of the work herein specified, namely:—

- (a.) To lay any private drain.
- (b.) To alter, reconstruct, extend, repair, open up, or remove any private drain.
- (c.) To connect any private drain with any other drain or sewer.
- (d.) To disconnect any private drain from another private drain or sewer.
- (e.) To affix, repair, or remove any disconnecting trap or gully-trap or other trap in connection with a private drain.

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#### Licensed Plumbers' Work.

It shall not be lawful for any person other than a licensed plumber duly licensed under these by-laws to execute any of the works hereinafter specified:—

- (a.) To affix or repair any cistern in connection with a water-closet.
- (b.) To connect any cistern with, or disconnect any cistern from, any water-closet.
- (c.) To affix or repair or remove any basin or pan of or belonging to any water-closet.
- (d.) To affix, repair, or remove any ventilation pipe in connection with a water-closet, or do any other work relating to the ventilation of traps in connection with water-closets.
- (e.) To connect a water-closet with or disconnect a water-closet from the soil-pipe thereof.
- (f.) To lay or set up, or repair or remove, the soil-pipe of or belonging to any water-closet.
- (g.) The trapping or any work in connection with trapping water-closets.
- (h.) Any work in connection with the laying-on of the water to and the trapping and ventilating the traps of urinals.
- (i.) The affixing, repairing, or removing of lead and other safes under closets, baths, sinks, and other conveniences.
- (j.) The affixing, repairing, or removal of overflow of waste-pipes connected with baths, sinks, and sanitary conveniences or appliances of any description.
- (k.) The affixing, setting-up, repairing, or removal of the ventilation shafts required under these by-laws, and the caps or cowls thereof, and the connection of the said shafts with their disconnection from drains.
- (l.) Any plumbing-work in connection with any sanitary convenience or appliance required to be provided, affixed, or set up by virtue of these by-laws.

Plumbing-work shall be done in accordance with the specification set forth in the Second Schedule hereto and these by-laws, and not otherwise.

#### Duties of Plumbers and Drain-layers.

A licensed drain-connector shall lay the private drain to the point where the connection is made to the soil-pipe of a water-closet. This connection shall be made by a licensed plumber. The licensed drain-connector shall put in the junction and lay all stoneware pipes required for the ventilation shafts referred to in these by-laws, and the plumber shall make the connection.

#### Waste Liquids from Factories.

It shall be unlawful for any person to allow, suffer, or permit any waste liquids or refuse products of any manufacturing process to flow into any sewer without the express sanction of the Council having first been obtained in writing, and subject to the observance of any conditions that may be in such writing prescribed; and such waste liquids or products shall, if required by the Engineer, be first passed through strainers or receptacles approved of by the Engineer to prevent the passage of any solid or deleterious matters into any sewer; and no person shall allow, suffer, or permit any hot liquids or steam to flow directly into any sewer, but shall retain the same in properly constructed and approved cooling-tanks until the temperature is reduced below 100 degrees Fahr.: Provided always that the Council may at any time, and of its own motion, revoke any sanction as aforesaid by writing delivered at the premises where the manufacturing process is carried on.

#### In case of more than one House using same Drain.

Where it is found necessary or desirable that two or more houses or premises be connected with one drain leading to a sewer, the owner or owners of such houses or premises shall first obtain the Engineer's approval to adopt such procedure, and no such drain shall be laid in any adjoining property except upon observance of the same condition; and in the event of the Board so declaring such drain to be a public drain, the Engineer may withhold such approval till the owner or owners have entered into an agreement for the cleaning and maintenance of such drain. Every connection with such common drain shall be made with a disconnecting trap.

#### Inlets.

No inlet to a drain shall be made within or underneath a building except such inlet as may be necessary for any water-closet, or for a slop-sink, or for a urinal; in any case the fittings of any such sink or urinal shall be ventilated, trapped, and connected after the manner provided in these by-laws for a water-closet. When it is impossible to fix a gully-trap outside any building owing to the whole area of