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GEELONG WATERWORKS AND SEWERAGE TRUST.  
By-LAW No. 97.

*By-law Relating to Levels, Dimensions, Construction, Maintenance, Ventilation and Cleansing of Sewers; The Issue of Licences, Consents, &c.; and other Matters Relating to House Connexion Work.*

THE Geelong Waterworks and Sewerage Trust (hereinafter called the Trust), in order to secure the efficient maintenance of the main and general sewerage of the Geelong Drainage Area, and pursuant to and in exercise and execution of the powers and authorities conferred upon or vested in the Trust by the Geelong Waterworks and Sewerage Acts, or by any other Acts incorporated therewith (hereinafter called "the Act"), and in exercise and execution of any other powers and authorities in any wise enabling the Trust in that behalf, doth hereby make the By-law following:—

1. By-law No. 51 relating to the Levels, Dimensions, Construction, Maintenance, Ventilation and Cleansing of Sewers shall be, and the same is hereby revoked, but not so as to relieve, discharge, or absolve any person from liability to pay any rate or charge made in accordance with the provisions of the said By-law, for payment of which rate or charge such persons shall have become liable prior to or at the date of this By-law coming into operation; nor to abrogate or diminish the power of the Trust to recover and enforce payment of any such rate or charge; nor to annul or stay any proceedings taken, prosecution commenced, or business initiated as in conformity with the provisions of the said By-law, prior to the date of this By-law coming into operation, but the same respectively may be continued and carried to completion and all offences against any provision of the said By-law committed before the date of this By-law coming into operation may be prosecuted for and punished as if this By-law had not been made.

2. All matters affecting the sewerage installation and/or the sewerage system of any building within the Drainage Area of the Trust shall conform to the requirements of Chapters 38 to 42 (inclusive) of the Uniform Building Regulations, Victoria, and to this By-law, provided that any provision in this By-law shall, so far as it relates to any matter as to which provision of the Uniform Building Regulations is in operation, have no force or effect.

*Division 1.—Applications for Consents, &c.*

3. Application for the Trust's consent to connect with the sewerage system, or to do plumbing work connected therewith, must be made in writing by the owner of the property to be drained, or his authorized agent. Such application shall give the precise location of the property the name of the owner, and the name of the person employed to do the work, and shall be made in Form "A" appended hereto, or to the like effect. For any wilful

misrepresentation in such application the owner or authorized agent as aforesaid shall be guilty of an offence against this By-law. No consent shall be deemed to authorize anything not stated therein.

Any approval by the Trust or proper officer of the Trust of a plan under section 101 of the Act, or any consent to connect any premises with a sewer of the Trust, shall not be deemed to authorize or to confer or grant the right to lay a drain through any land intervening between the premises proposed to be connected and such sewer of the Trust, and any owner or applicant for the approval of such plan or consent shall satisfy himself as to his legal right to drain through such intervening land, and shall be solely responsible for any trespass or damage thereon or thereto.

Consents to make connexions with the sewerage system will be issued only when the plumbing in the property to be connected is planned to be made in accordance with the rules for plumbing herein prescribed, and after such plan has been inspected and approved by the proper officer of the Trust for the purpose, or, in the case of new buildings, when a proper plan of the plumbing and of the drainage of the building into the branch of which the Trust shall have fixed the position, has been approved in writing by the Trust.

All connexions with the drains or sewers, and all plumbing connexions therewith, shall be made under the direction of the Engineer-in-Chief and/or the Inspector of the Trust.

Consent will not be given for the performance of any such work except upon condition that no person shall be engaged or employed as a workman in the actual performance of any work unless he be the holder of a "Working Plumber's Licence" or "Drainer's Licence" from the Trust. Any person, whether licensed as aforesaid or not, who shall alter, remove, or in any way interfere with any drain, fitting, pipe, bend, trap, or other thing connected or intended to be connected with the Trust's sewerage system, unless the Trust's written consent has been previously issued to do such work at the premises concerned, shall be liable to a penalty not exceeding Ten pounds.

*Division 2.—Preparation of House Drainage Plans and Amendments.*

4. Copies of the Trust's plans and/or designs of individual house drainage will be furnished by the Trust upon application, on the form appended hereto, and payment for the same and subject to such conditions as follows:—

- (a) (i) Where the Trust designs the work and prepares a plan and has same carried out for the owner, a charge shall be made equal to ten per centum (10 per cent.) on the capital

cost of the work, for designing, specifying, letting contract and supervising all details in connexion with such work.

- (ii) Consent for additions to and/or amendments of approved plans or to works previously approved will be made only on the application of the owner or his authorized agent, and on payment of a fee of Fifteen shillings (15s.) for each fitting or drain altered or added.
- (b) When the Trust designs the works for the owner and the owner then carries out his own work—
- (i) For plan of design, a fee of Three pounds (£3), plus Seven shillings and sixpence (7s. 6d.) for each fitting.
- (ii) For making and/or examining any alterations or additions to a plan previously issued or approved by the Engineer-in-Chief, a fee of Fifteen shillings (15s.) shall be made by the Trust for each fitting or drain altered or added.
- (iii) The Engineer-in-Chief may during construction of the work order the owner to carry out such additions and/or amendments as may be necessary for the satisfactory completion of the work. The house connexion will not be passed until the installation, together with the amendments ordered, have been completed to the satisfaction of the Engineer-in-Chief.

(c) Where an owner designs and carries out his own work—

- (i) For the supply of a block plan, a fee of Fifteen shillings (15s.). For tenements exceeding 4,000 square feet in ground floor area and/or properties exceeding 2 acres in extent, an additional fee of Seven shillings and sixpence (7s. 6d.) shall be charged for each additional 4,000 square feet, or part thereof, and/or for each additional 2 acres, or part thereof.
- (ii) The owner shall submit for examination a properly drawn design on tracing cloth and a typewritten specification. The tracing cloth shall be of a standard size of 12 inches by 8½ inches and the drawing shall be to a scale of 40 feet to 1 inch, unless such standard tracing cloth and such standard scale are too small to show clearly the nature and position of all fittings. In cases where it is necessary to use a larger tracing cloth and a larger scale, in order to show clearly the nature and position of all fittings, such larger tracing cloth and such larger scale shall be approved by the Trust.
- The design and specification shall be supplied to the Trust in triplicate. The work shall not proceed until the owner's design and specification have been approved by the Engineer-in-Chief and the third copy returned to the owner with official endorsement.
- (iii) For the examination of the owner's plan of design and specification, a fee of Thirty shillings (30s.) for each plan and from one to six fittings, plus Seven shillings and sixpence (7s. 6d.) for every fitting over six.
- (iv) For examining any alterations or additions to a plan previously issued or approved by the Engineer-in-Chief, a fee of Seven shillings and sixpence (7s. 6d.) shall be made by the Trust for each fitting or drain altered or added.
- (v) The Engineer-in-Chief may during construction of the work order the owner to carry out such additions and/or amendments as may be necessary for the satisfactory completion of the work. The house connexion will not be passed until the installation together with the amendments ordered have been completed to the satisfaction of the Engineer-in-Chief.

#### Division 3.—Execution of House Connexion Works.

5. All connexions of plumbing work, drains, or sewers with the sewers of the Trust, and all work connected in any way with the drainage of any premises, shall be executed in accordance with this By-law.

6. All drains in and from properties to and as far as the point of connexion of the branch drain with the sewer must be repaired and cleansed by, or at least at the cost of, the owner.

7. All the works of sewerage and/or drainage must be carried out in accordance with the provisions of the Act and By-laws or regulations thereunder.

In the case of any obstruction taking place in a combined drain, the Trust will determine between the respective owners or occupiers of the premises drained thereby by whom and in what proportion the cost of removing any such obstruction shall be paid.

Every person who, by a notice from the Trust, issued in accordance with the Act, or any By-law or regulation thereunder, shall be required to do or not to do anything, including a requirement to make any sewer or drain, or branches, works, or arrangements for the better sewerage and/or draining of his house, building, or ground, and who fails to comply with such notice, shall be guilty of an offence.

#### Division 4.—Licences.

8. All plumbing work for sewerage shall be done and carried out only by a plumber licensed by the Trust.

9. The Trust may, if it thinks fit, issue a plumber's licence to any person who is the holder of a Certificate of Competency issued by the Sanitary Plumbers Examination Board of Victoria and is registered with the Plumbers and Gasfitters Board of Victoria.

10. The conditions upon which licences will be issued by the Trust are:—

- (a) That every such licence will be subject to suspension or cancellation at the will of the Trust, and that all such licences will be granted to expire on the 31st day of December of each year. Application for a renewal of every such licence must be lodged on or before 30th November in each year, along with evidence that the applicant has renewed his registration with the Plumbers and Gasfitters Board of Victoria. A minimum charge of 10s. will be made on all applications for renewals received after 30th November in each year.
- (b) A special condition of every consent issued to an owner or agent shall be that if a licensed plumber, in his employment upon any such work, prove, according to the judgement of the Trust's inspecting officer, to be incapable as a workman, or transgress the By-laws or regulations of the Trust, and the "Working Plumber's Licence" of such workman be for any such cause suspended or cancelled by the Trust, and notice of such suspension or cancellation, in the Form "B" to this By-law annexed, or to the like effect, be given by the Trust in writing, by registered letter addressed to the said owner or agent, the said owner or agent shall cease to employ such workman upon any such work immediately after and during the continuance of such suspension or cancellation. Any such owner or agent who shall neglect or fail to comply with this condition shall be guilty of an offence against this By-law.

11. "Drainer's Licence."—The Trust may issue a "Drainer's Licence" to any person who is to the satisfaction of the Trust competent to carry out the work of drainer, and for that purpose may require such person to satisfy it as to his competency by passing an examination conducted by the Engineer-in-Chief and such other examiners as the Trust may appoint or in such other manner as the Trust may determine, or in any particular case may decide that he has a thorough knowledge of the following subjects:—

*Plans.*—The reading of plans and the meaning of scales and of elevation, plan, and section drawing.

*Levelling.*—The use of the straight-edge, spirit-level, and boning rods.

*Excavation, Timbering and Refilling.*—The use of tools for excavation, the protection of trenches by timbering, the treatment of different soils, tunnelling, and tunnel timbering, precautions near buildings, and manners of refilling trenches and tunnels.

*Drain-laying.*—The preparation of the bottom of trenches, the laying and jointing of stoneware, cement, concrete, and cast iron pipes, cement, bitumen, lead, and self-filling joints, laying of drains under houses and in soft ground, and the depth of drains below surface.

*Drainage Details.*—Junctions to sewers, diminishing of sizes of pipes, yard gullies, grease and other traps, inspection openings, and cast iron drainage details.

*Drainage Works.*—Knowledge of the provisions of this By-law and of the Acts, insofar as same relate to the work and duties of drainers in regard to the construction, maintenance, and protection of the sewerage system and the construction and use of drains and drainage traps.

Candidates for the Drainer's Licences shall give notice, in writing, to the Trust of their intention to submit themselves to examination, and this examination shall be at such a time and at such a place as shall be appointed by the Trust. Candidates must provide themselves with their own tools and materials, and pay a fee of Twenty shillings (20s.) for each examination.

The conditions under which Working Plumber's Licences will be issued will also apply to Drainer's Licences.

#### *Division 5.—Inspection.*

12. The owner or his authorized agent, or the plumber, drainer or contractor carrying out the work, must give at least twenty-four hour's notice in writing to the Trust of his intention to commence work, and also when any work is ready for inspection. All work must be left uncovered and convenient for examination until inspected and approved by an inspecting officer appointed by the Trust.

Such inspection shall be made within twenty-four hours of such notification being received at the office of the Trust, except when notification is received on Fridays, when seventy-two hours must be allowed.

The inspecting officer may apply the ether, peppermint, water or smoke test, and the plumber or drainer shall furnish all the necessary tools, labour and assistance for such tests.

The owner or his authorized agent shall remove or repair any defect when so ordered by the inspecting officer, and if he neglect or fail to do so he shall be liable, upon conviction, to a penalty not exceeding Five pounds, and to a penalty not exceeding One pound for every day thereafter during which such neglect or failure shall continue.

Before the fittings are connected with the plumbing of any house or building, or after, if so ordered, and before the soil or waste pipe is connected with the sewer, the outlet of the soil or waste pipe and all openings into it below the top shall be hermetically sealed. The pipes shall then be filled with water to such height as the inspecting officer of the Trust shall require, and every Joint carefully examined for leaks. Work already in place may be examined by the peppermint or other test. Defective pipes must be removed and replaced by sound ones, and all defective joints made tight, and every part of the work made to conform to this By-law, and subject to the approval of an inspecting officer of the Trust.

House drains, whether laid by the Trust's workmen or others must be thoroughly tested in every case before being passed by the Trust's inspecting officers. When being tested with water, there must be a head of at least six (6) feet above every part of the drain.

Before a licensed plumber or drainer commences to clear a stoppage in a drain he shall notify the Trust in writing of the time when he intends to clear the stoppage, so that an inspector may attend and pass the work in accordance with the provisions of the Act.

#### *Division 6.—Defective Fittings.*

13. Any drain pipe, soil pipe, trap, water closet, urinal, sink, or other fitting laid, used, or constructed otherwise than in accordance with this by-law, or which shall, in the opinion of the Trust, be or become bad, or of defective quality shall upon notice in writing from the Trust to the

owner or occupier of the property, be by such owner or occupier removed or repaired in the manner determined, and within the time fixed by the Trust; and in case such owner or occupier fails to comply with the requirements of such notice he shall be liable to prosecution and penalty for an offence against the Act, or the Trust will, if it think fit, remove or repair the said defective fitting, and charge such owner or occupier of the premises with the cost so incurred, and will proceed for recovery of the same in manner provided by the said Act.

#### *Division 7.—Quality of Materials.*

18. All materials used must be of good quality and free from defects. The work must be executed in a thorough and workmanlike manner, and to the satisfaction of the Trust. No sanitary fitting shall be allowed to be connected to the sewers of the Trust unless it be of a type previously approved by the Trust, or unless special permission has been given by the Engineer-in-Chief for connexion of such fitting.

The utmost care must be exercised on all house connexion work to ensure that only materials which are in accordance with the Trust's By-laws and Regulations are used.

#### *Division 8.—Use of Sewers and Drains—Prohibition of Certain Discharges—Fittings to be above Flood Level.*

19. *Use of Sewers and Drains.*—The owner and the occupier of any sewer property shall discharge into the sewerage system—

- (a) All faecal matter, urine, household slops and household liquid refuse from such property, and such other polluted water from stables, washing areas, manure bins, basements, cellars, and roofed yards; and
- (b) such trade or manufacturing liquid refuse as the Trust may authorize, subject in each and every case to such conditions as it may impose.

20. *Prohibited Discharges.*—The deposition or discharge of any of the following substances into any drain is prohibited—

- (a) Any animal matter other than is specified in section 19, fleshings, wool, hair, dead animal, grease, dust, ashes, rubbish, garbage, offal, vegetable and fruit or their parings, rags, oil, silt, mud, sand, gravel or like substances, or any other substance which is in the opinion of the Trust liable to be injurious to any part of the sewerage system or to employees of the Trust engaged in the operation or maintenance of same.
- (b) Any petrol or other inflammable or explosive substance, whether solid, liquid or gaseous.
- (c) Any rain, roof, surface, or flood waters, except by special permission of the Trust.
- (d) The contents of any night-soil cart, cesspool, or privy.
- (e) Any liquid, trade waste or any other substance which has not been neutralised to the approval of the Trust, or which is above the temperature of 110 degrees Fahrenheit, or such lower temperature as may be prescribed by the Trust, having regard to the special circumstances of the case.
- (f) Any liquid which contains such percentage of common salt or any other mineral, salt, acid, or gas, as is, in the opinion of the proper officer of the Trust, injurious to, or liable to form compounds injurious to, any part of the sewerage system or to employees of the Trust engaged in the operation or maintenance of same.

21. *Fittings to be Above Flood Level.*—No person shall place in position for use any fitting or appliance having an inlet or opening into any drain or into any sewer of the Trust unless the inlet or opening is above the highest recorded flood level in the relevant area. Where any doubt is raised in connexion with any of the clauses of this By-law as to the highest flood level, the Engineer-in-Chief, after inquiry, shall fix such flood level, and his decision shall be final and conclusive.

Where any buildings or premises are situated in any area liable to flooding at frequent intervals the Trust may suspend the operation of this clause subject to and so long as the following conditions are observed:—

- (a) That the owner applies in writing for permission to fix an approved sluice valve in every drain connecting with a sewer of the Trust on which the inlet or opening is placed, and furnishes the Trust with an undertaking that such sluice valve will be fixed at his risk, and indemnifies the Trust against all damage suffered by such owner or any one claiming under him arising out of and incidental to any such valve;
- (b) That the owner undertakes whenever there is danger of flooding to close or cause to be closed every such valve before flooding occurs, and to keep closed or cause to be kept closed every such valve until the flood water shall have subsided to such an extent that there is no longer danger of the flood water entering the sewers;
- (c) That pursuant to such permission and undertaking an approved sluice valve shall have been fixed in every drain connecting with a sewer of the Trust and approved of by the Engineer-in-Chief;
- (d) That the owner does whenever necessary close and keep closed every such valve and does exclude such flood water.

*Division 9.—Trade Wastes.*

22. *Condition of Discharge.*—No person shall discharge any trade or manufacturing liquid, refuse, or waste into any sewer, unless and until the following conditions are complied with:—

- (a) Application for permission to discharge any such trade wastes shall be made, in writing, and accompanied by plans and specifications of the work to be done and of the apparatus to be used and shall include such details concerning the nature of the waste and the quantity and rates of discharge of the proposed effluent as considered necessary by the proper officer of the Trust.
- (b) The permission of the Trust, in writing, shall be obtained and an agreement containing a covenant to comply with the By-law and with any further stipulations required by the Trust, shall be executed. The volume of liquid refuse or waste discharged shall if ordered be measured and determined by meter or by some other approved means of measurement. The maximum daily aggregate quantity of effluent which may pass from any trade premises into a sewer, the maximum permissible rate of such discharge, the size and capacity of the drain or pipe for conveying such effluent from the trade premises to the sewer, and the hours during which such flow will be permitted shall be determined by the Trust.
- (c) All such liquid refuse or waste shall be passed through such settling, screening, and/or neutralising chambers and/or such other appliances and/or otherwise treated as ordered or approved by the Trust to ensure that the resulting effluent shall comply with the conditions of the agreement.
- (d) Every settling, screening, neutralising, or other chamber, appliance, or apparatus for the treatment of trade wastes in accordance with this By-law shall be cleansed, operated and maintained by the occupier at his own expense and at such intervals as may be considered necessary by the Trust, or its proper officer to ensure the efficient operation of such chamber, appliance or apparatus and in no case shall such chamber, appliance or apparatus be altered without the approval, in writing, of the Trust first being obtained.

*Division 10.—Drainage.*

23. (1) Every premises shall be separately drained unless a combined drain shall have been ordered or approved by the Trust. Owners desiring to have the drainage of their properties combined must sign a request for a combined drain, and obtain the approval of the Trust.

(2) In any case where a combined drain serves two or more properties the Trust, with the consent of the owners of the properties served by such combined drain, may take over such combined drain, and thereafter such combined drain shall be and remain a sewer of the Trust.

(3) In every case of a combined drain the Trust will determine, as between the respective owners and occupiers of the properties drained thereby, the proportions in which the cost of such combined drain shall be paid. In every case of the occurrence of an obstruction in a combined drain the Trust will also determine by whom and in what proportion the cost of removing such obstruction and/or effecting any necessary repairs to drains shall be paid.

(4) Owners and occupiers of premises are responsible for clearing stoppages in drains within their premises, or between their premises and the sewers into which the branches lead, but must employ only licensed plumbers or drainers to clear the same.

(5) Before a licensed plumber or drainer commences to clear a stoppage in a drain he must notify the Trust, in writing, of the time when he intends to clear the stoppage, so that the Trust's proper officer may attend and pass the work in accordance with the provisions of the Act.

24. Owners and occupiers of premises shall be responsible for clearing stoppages in drains within their premises or between their premises and the sewers into which the branches lead.

*Division 11.—Basement and Cellar Drainage.*

25. *Seepage Drains.*—In no case shall seepage drains from cellars, basements, or any floor below ground level be discharged into a sewer without the consent of the Trust. Where such a discharge is permitted, the seepage shall be raised by ejector, syphon, or other approved mechanical appliance to such height as ordered, and discharged into the sewer as and where directed.

*Division 12.—Polluted Areas.*

26. *Connexion.*—The Trust may if it thinks fit authorize or require that any of the following places, namely, stables, cow sheds, dairies, market places, abattoirs, areas for washing vehicles, and any other polluted place, be connected with the sewers, subject to such conditions as the Trust may impose.

27. *Conditions Governing Connexion.*—No such connexion shall be made unless the following conditions have been complied with:—

- (a) The place to be connected shall, if required, be so roofed as to prevent the entry of rain water from it to the sewers, and in no case shall rain water be permitted to discharge on to such place from adjoining surfaces.
- (b) The place to be connected shall be paved above the level of the yard with approved materials, and graded to the satisfaction of the proper officer of the Trust.
- (c) The drain from any such place shall be provided with an approved silt trap with a removable grating and connected with the drain inside the boundary line of the property. A water tap connected with a satisfactory water service shall be provided in a suitable position over the area.

28. *Manure Bins:*—

- (a) Manure bins must be provided for all stables or cow houses, where the local Municipal By-laws demand their construction, or where the locality is closely built on.
- (b) All the manure bins must have the inside surfaces rendered with cement mortar, and must be impervious throughout, and provided with an approved close-fitting cover. Walls of new manure bins must, unless otherwise approved by the Engineer-in-Chief, be at least nine (9) inches in thickness, built of brickwork laid in cement mortar. If an outlet pipe be provided for a manure bin, it must be properly connected with the Trust's sewers. Branches in house drains must be provided in all cases where manure bins exist for their connexion whenever the Trust shall deem it necessary.

*Division 13.—Laying Drains, &c.*

29. *Position and Line.*—Every drain and every fitting, &c., connected therewith shall be laid and fixed where directed by the proper officer of the Trust. As far as possible all drains shall be laid in straight lines; where changes of direction occur they shall be made in man-holes, or by suitably curved pipe with an inspection opening on each straight pipe next adjoining the curve, or by installing an inspection branch in the curve itself, or by such other means as the proper officer may direct.

30. *Oblique Junctions.*—Where any drain joins another drain, or a sewer, the junction shall be made obliquely at an angle of not greater than forty-five (45) degrees with the direction of flow of such drain or sewer.

31. *Connexion to Sewer.*—The position of the Trust's connexion to any premises shall be located prior to the commencement of any drain excavation. The disc stopper at the point of connexion to the sewer shall be carefully removed so as not to injure the socket or allow any debris to enter the sewer.

The first length of the drain at the branch shall be an inspection opening.

32. *Gradients.*—All drains shall be laid on an even grade and except by special permission, in writing, from the proper officer, such gradients shall not be less than the following:—

4 inch diameter	..	1 in 40
6 inch diameter	..	1 in 60
9 inch diameter	..	1 in 90

In cases where the grades of drains are steeper than 1 in 15, concrete anchorage blocks shall be placed at intervals of not more than thirty (30) feet.

Such blocks shall be let into the sides of the trench at least six (6) inches on each side and shall extend not less than three (3) inches above and below the barrel of the pipe and for a length of twelve (12) inches along the pipe.

33. *Depth of Drains.*—Drains of stoneware or concrete pipes, unless bedded on and encased in concrete of not less than six (6) inches thick over any part of the drain, shall be laid at a depth to the top of the socket of the pipe of not less than the following:—

- (a) In public thoroughfares, rights-of-way, or other open spaces subject to vehicular traffic—two (2) feet six (6) inches.
- (b) In private property not subject to vehicular traffic—one (1) foot six (6) inches.

No person shall alter the surface over any drain, so as to deprive it of the minimum depth of cover specified by the preceding paragraph, unless approved measures are adopted to protect that drain.

34. *Laying Drains.*—All pipes shall be laid to such lines and grades as may be shown on the plans or directed, and, except where otherwise ordered, shall be bedded on approved sand or other approved bedding material up to one-third of the diameter of the pipe and so that there shall be at least two (2) inches of the bedding material below the barrel of the pipe in the case of earth bottomed trenches and up to the horizontal diameter of the pipe, and so that there shall be at least three (3) inches of the bedding material below the barrel of the pipe where laid in trenches in rock.

In water-charged ground, or where the foundation is bad, or near the roots of trees, or where directed, the drain shall be formed of cast iron pipes or, if of stoneware or concrete or other approved pipes, they shall be bedded on and encased in concrete as ordered, and, if ordered supported upon approved timber foundations as directed. The thickness of concrete encasing and the form of concrete haunching support shall be as directed by the proper officer.

Drops or bends in vertical or incline drains shall have a concrete support placed under and around the drain as directed.

*Division 14.—Joints, Drainage.*

35. *Stoneware and Cement Pipes.*—Joints of stoneware and cement pipes shall be filled in solidly with cement mortar neatly splayed off, or with other approved material. After each joint is made, the interior of the joint shall be wiped clear of surplus mortar before the next pipe is laid.

36. *Cast Iron Pipes.*—All joints in cast iron pipes must be stemmed with approved gaskets and so filled and caulked with lead or other approved material as to make them gas and watertight.

All connexions between stoneware or concrete pipes and/or cast iron pipes shall be made as for joints in stoneware or concrete pipes.

*Division 15.—Drainage Traps.*

37. *Classes of Traps.*—Five classes of traps shall be used:—

- (a) "Traps" for interception of gases only, which shall be of round section and self-cleansing form, but not such that the seal is emptied by momentum or suction.
- (b) "Silt Traps" for intercepting both gases and solids, which have slightly tapered sides, flat bottom, and rounded angles, and which shall be provided with approved means for catching and removing solids.
- (c) "Grease Traps" for solidifying and collecting grease, fatty domestic wastes, and other semi-fluid or viscous material liable to foul the pipes. The grease trap shall be designed for the requirements of the particular drain. The design and capacity shall be to the approval of the Engineer-in-Chief. The interior surfaces shall be tiled, and it shall be equipped with non-corrodible baffles, the whole trap being designed for easy cleaning.
- (d) "Acid Traps" or "Neutralizers" for neutralizing acid or other aggressive liquid prior to its entering the house drains.
- (e) "Oil Traps" for collecting all kinds of oil, which shall be of such forms as approved. The term "yard gully" is applied to traps (a) where they are used externally and fitted with dished tops and gratings. The tops of inlets of all disconnector traps must be at least six (6) inches above the surface of the surrounding ground.

38. *Provision of Yard Gullies.*—Yard gullies, when provided in the yard shall be as near as practicable to the kitchen or back door, with a water tap connected with a satisfactory water service placed over it at a height of not less than two (2) feet. No yard gully shall be situated within a building or outbuilding.

39. *Details of Yard Gullies.*—Yard gullies shall be fitted with dished tops and gratings, the dished top being in one piece with the trap or jointed thereto by spigot and faucet, or as otherwise approved.

The depth of the dished top to the grating shall not be less than six (6) inches. The grating to every gully trap shall not be less than six and seven-eighths (6 $\frac{7}{8}$ ) inches over all, and the grating to every disconnector trap shall be convex in section, with an opening of suitable outlet capacity. Every grating shall be fixed down in an approved manner with bitumen or wedges of lead.

40. *Kerbing, &c. to Yard Gullies.*—Yard gully basins and the dished tops of silt traps shall be so surrounded with an approved impervious kerbing as to prevent the access of surface water to the drains, and if directed, the wall at the rear of the gully or silt trap, if of brick or stone, shall be cement rendered to the height of the tap over same, and if of wood the wall shall be provided with an approved galvanised sheet iron apron. The internal diameter of kerbing around gully traps measured from the face of cement rendering shall not be less than fifteen (15) inches, and shall be neatly rounded to meet the gully top.

*Division 16.—General.*

41. *Consent, Sanction, &c. of the Trust.*—Where the sanction, permission, authority, consent, approval, satisfaction, order, direction, opinion, indication, or notice of or from the Trust is necessary, whether special, in writing, or otherwise, with regard to any act, matter or thing mentioned in this By-law, the same may be given by and under the hand of the Chairman of the Trust, or of the Engineer-in-Chief, personally, or through an inspecting officer appointed under him, who severally shall be competent to give the same, and authorized on behalf of the Trust, to prescribe any conditions attaching thereto, and subject to and in accordance with which only the same shall be deemed to have been given.

42. *Variation of Regulations.*—No variation from the Regulations contained in this By-law will be allowed except by the special written approval of the Trust obtained previously to the proposed variation being carried out.

43. *Offences and Penalties.*—Where anything is by this By-law directed to be done, or forbidden to be done, or where any authority is given to the Trust or any of its officers to direct or to forbid anything to be done, and such act so directed to be done remains undone, or such act so forbidden to be done is done then and in every such case the person making default as to said direction or prohibition respectively, shall be guilty of an offence against this By-law.

Every person guilty of an offence against this By-law, not otherwise specially provided for by or under the authority hereof, shall be liable for every such offence, besides any costs or expenses which may be incurred in the taking of proceedings against such person guilty of such offence as well as any costs or expenses which may be incurred in remedying such default, as particularly provided for in this By-law or the act, to a penalty not exceeding Ten pounds (£10), and to a further penalty of One pound (£1) for each day during which such offence is continued by such person after notice of the offence shall have been given by the Trust to him, and such penalty shall be recoverable, notwithstanding that the Trust may not have chosen to exercise any power given to it by the Act or by this By-law to remedy such default.

44. *Interpretation.*—In the construction of this By-law the meaning which in the Act is assigned to any word shall be the meaning of the same word where occurring in this By-law, unless inconsistent with the subject matter or context.

The foregoing By-law was made and passed by the Geelong Waterworks and Sewerage Trust on the 25th day of January, 1962 and the Common Seal of the said Trust was hereunto affixed on the date aforesaid in the presence of—

(SEAL) J. W. CARR, Chairman.  
L. W. SPRAGUE, Commissioner.  
B. C. HENSHAW, Secretary.

Approved by the Governor in Council, 31st July, 1962.—  
N. G. WISHART, Clerk of the Executive Council.

Drainage Plan No.

FORM A.—SEWERAGE.

Geelong Waterworks and Sewerage Trust.

APPLICATION FOR CONSENT TO CONNECT WITH THE TRUST'S SEWERAGE SYSTEM, OR TO DO PLUMBING WORK IN CONNEXION THEREWITH.

On receipt of consent, Notice of Intention to start work must be delivered at the Office of the Trust at least 48 hours prior to commencing operations.

I hereby apply to the Geelong Waterworks and Sewerage Trust for consent to do the work hereunder mentioned.

Precise Location of Property  
Description of Premises  
Name and Address of Owner  
Name of Occupier  
Name and Address of Licensed Plumber employed to do the work  
Name and Address of Licensed Drainer employed to do the work

Work for which consent is applied  
Signature of Owner or Authorized Agent  
Address

Date 19

Only Licensed Plumbers and Drainers are permitted to carry out work applied for in this application.

Drainage Plan No.

FORM B.—SEWERAGE.

Geelong Waterworks and Sewerage Trust.

NOTICE TO OWNER OR AGENT OF CANCELLATION OR SUSPENSION OF PLUMBER'S OR DRAINER'S LICENCE.

To

You are hereby notified that the Working Plumber's or Drainer's (as the case may be) Licence issued to and held by who is now or has been engaged in or upon the works covered by the above Plan has been cancelled or suspended as from the day of 19

You must therefore at once cease to employ the said upon the said works or any other works relating to the sewerage or water supply system under the control of the Trust during the period of cancellation or suspension of the said Licence. Dated this day of 19

By order of the Trust Secretary.

FORM B. 1.—SEWERAGE.

Geelong Waterworks and Sewerage Trust.

APPLICATION FOR WORKING PLUMBER'S LICENCE. Date

Name in full  
Date of birth  
Present address  
Occupation

I desire to make application for a Working Plumber's Licence and hereby declare that the information supplied by me is true. I agree to be bound by the Conditions, By-laws, Regulations or Rules relating to Plumbers or Plumbing in connexion with the Water Supply or Sewerage Works of the Trust as are now or may hereafter be prescribed by the Geelong Waterworks and Sewerage Trust.

Signature  
Witness  
Address of Witness

The prescribed fee must be paid at the Trust's Office when making application.

In the event of a candidate failing to pass the Practical Examination in Plumbing, and again presenting himself for examination, he must pay at the Trust's Office, in advance, the prescribed fee for such subsequent examination.