City of Richmond

Gas Fired Pool Heaters

Plumbing/Gas Inspections Section
6911 No. 3 Road, Richmond, BC V6Y 2C1

www.richmond.ca **Tel: 604-276-4000 Fax: 604-276-4063**

This guide should be used for general information only and not as a substitute for the Gas Code and City Bylaws.

Minimum Required Clearances	Indoor*	Outdoor
From property lines	Varied depending on zone (Check with Plan Reviewer, Permits and Licences Department)	1 ft. 6 in. (450 mm) with noncombustible fence 3 ft. (900 mm) with combustible fence
From any building	10 ft. (3 m) to vent termination	3 ft. (900 mm)
From any building opening	10 ft. (3 m) to vent termination	10 ft. (3 m)
From a pool	4 ft. (1.2 m) (to edge of shed)	4 ft. (1.2 m)
From a meter	Not applicable	5 ft. (1.5 m)
For 4 in. (100 mm) thick slab under heater	Full size of the shed	6 in. (150 mm) beyond sides and rear, 24 in. (600 mm) at front of heater

* For the purpose of this table, indoor means a heater installed in a detached equipment shed.

A permit is required from the Building Approvals Division for an equipment shed.

Contact the Plan Reviewer regarding clearances for an equipment shed from the main building and zoning requirements for the specific area.

As clearances vary considerably between outdoor and indoor installations, careful planning must be made for location. If any outdoor heater is installed, or an equipment shed is contemplated in the future, then the clearances for an indoor type should be maintained for location.

Indoor Heaters – (Installed Within a Dwelling)

1. Access to the heater room shall be from outside the building.

2. There shall be no openings connecting the heater room with any other portion of the dwelling or pool enclosure.

3. Combustion and ventilation air must be installed for any indoor type heater in accordance with the Gas Code.

4. Chlorine shall not be stored or handled in a room or enclosure containing any type of gas fired equipment.

All Types of Heater Installations

1. The circulation system requires a three valve manual bypass fabricated with copper pipe and connected directly to the heater. The valves shall be located so as to isolate the heater. This bypass system must be adjusted to ensure that the manufacturer's recommended temperature is maintained at the outlet of the heater.

2. A thermometer shall be installed to read water temperature on the outlet before any mixing.

3. A metallic sticker shall be on every pool heater stating the manufacturer's design minimum and maximum temperatures and flow rates, as well as the C.G.A. certification label.

4. The piping and venting, other than those stated above, shall be in accordance with the Gas Code.

Phil Wynne
Supervisor, Plumbing & Gas Inspections

City of Richmond

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Private Swimming & Wading Pools

Plumbing/Gas Inspections Section

Approval of Plans

Plans for a building permit must be submitted to the Building Approvals Division in duplicate showing the location, elevations, layout and details of the pool, fence, plumbing and gas services, including the equipment shed location.

A sump and sewer alteration permit may also be required.

All backwash discharges must be directed to the sanitary sewer in accordance with Richmond DWG. P104.

A gas permit is required if the pool is gas heated.

Excerpt from Building Regulation Bylaw 7230 – Part 9

"PART NINE: SWIMMING POOLS

9.1 Siting, Fencing and Access Requirements

9.1.1. A **swimming pool**, unless contained within a **building** or **structure**, must:

(a) be located a minimum of 1.2 metres from the **parcel** line of such **building** or **structure**; and

(b) be enclosed by a fence which:

(i) in the opinion of the **building inspector**, does not facilitate climbing;

(ii) has a minimum height of 1.2 metres;

(iii) has no openings greater than 100 millimetres at their least dimension; and

(iv) can be accessed only through a self-closing gate designed and **constructed** or installed so as to cause the gate to return to a closed position when not in use and secured by a latch located on the **swimming pool** side.

9.2 Access to Other Types of Pools

9.2.1 Other types of pools, used or intended to be used for swimming, bathing, wading or diving which are exempt from the definition of **swimming pool**, must:

(a) be enclosed by a **fence** which complies with the requirements of clause (b) of subsection 9.1.1; or

(b) be otherwise secured to prevent access by unauthorized persons.

9.2.2 Any access through a **fence** referred to in subsection 9.2.1 must be through a self-closing gate which complies with the requirements of clause (b)(iv) of subsection 9.1.1."

No part of the pool may encroach into an easement, except a cast-in place concrete apron which is on grade or installed separate from the pool.

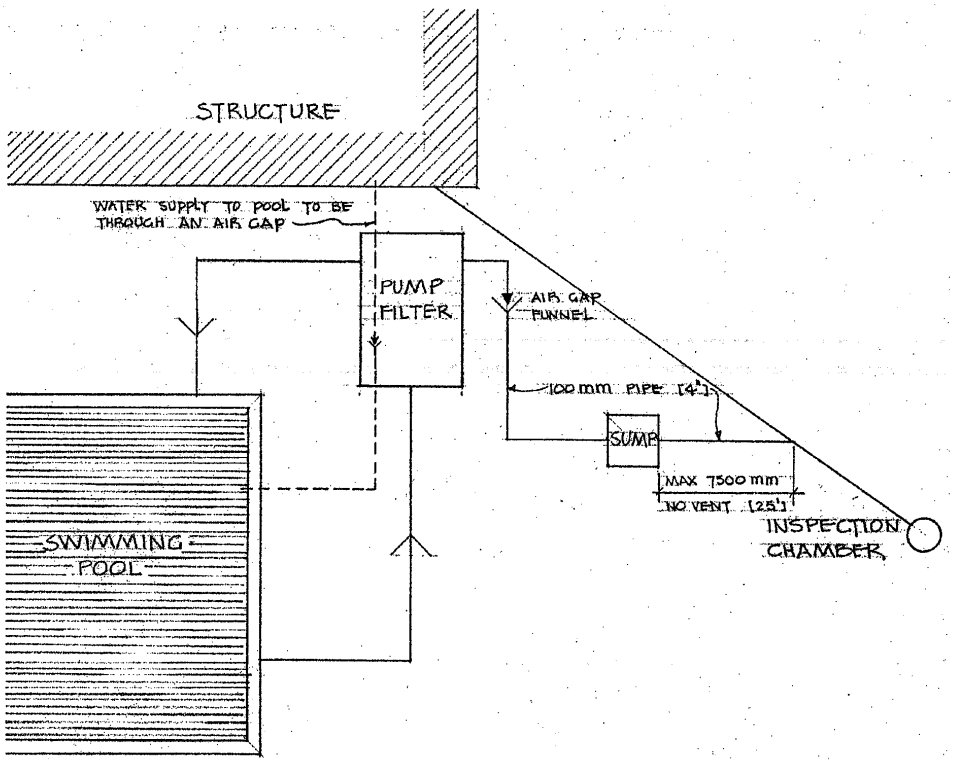
Inspections

Telephone 604-276-4000 before 3:00 p.m. for an inspection the following business day.

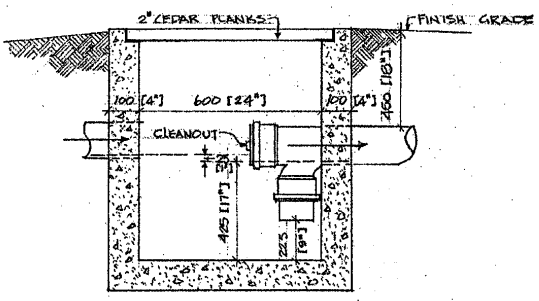
Inspections required:

1. Location, before pouring concrete or installing service lines.
2. Installing of all plumbing and heating.
3. A **final inspection** must be requested when the pool, fence and gate are completed and after any plumbing and heating installation has been inspected and approved.

Electric service wiring is not recommended over the pool. (Check with BC Hydro, 3855 Kitchener Street, Burnaby, BC at 604-293-7200 and the Provincial Electrical Safety Branch, #148-10451 Shellbridge Way, Richmond, BC at 604-660-9433.)



PLAN



SUMP DETAIL

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES EXCEPT AS NOTED.
2. THESE DETAILS FOR CONNECTION TO SEWER APPLY ONLY TO POOL EQUIPMENT WITH BACKWASH CONNECTION ON FILTER.

metric

CITY OF RICHMOND

DES:	ENG.:	**DETAIL OF SWIMMING POOL DRAIN TO SANITARY SEWER**	DR.No. P-104
DR.: JMT	DATE.: March 1978		SHEET No. 1 of 1
CHK.:CRC	SCALE: NTS		