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## **Rock Pits**

### Inspection Division Information Handout #PLM4

The purpose of this brochure is to explain to builders when a rock pit is necessary and the steps that must be taken to have the rock pit design approved.

#### **General Information**

When an application is received for a permit to construct a single or two family dwelling, the Community Development Department sends an inquiry to the City Engineering Department requesting information on facilities for drainage control.

If the Engineering Department advises that either a City storm drainage connection, back of walk tile, or ditch is not available, the property owner has two options as follows:

- The property owner can arrange to have the existing storm drain extended to the property at their expense. More information can be obtained from the Engineering Department at 604-983-7333; or
- The property owner can obtain the services of an engineer to ascertain the feasibility of an on site drainage system and then submit the completed rock pit design to the Community Development Department.

#### **Rock Pit Design and Approval**

- If the property owner decides that a rock pit is the most practical solution for the drainage conditions on the property, an engineer's design and Letters of Assurance (Schedule B1 and B2) are required. The documents will be forwarded to the City's Plumbing Inspection Division for review.
- The design engineer should include all of the required information on the drawings for reference by the City inspection staff. Design criteria must take into consideration the quantity and intensity of expected rainfall per hour and the absorption of the soil on the property. Rainfall may be estimated by using the local 10 year rainfall intensity curve to calculate the quantity of run-off, and the design shall consider the run-off coefficient, slope of the land, soil, land cover, time of concentration, intensity of rainfall, and the area under consideration. The design should be based on knowledge of the area and experience, and shall conform to good engineering practice.

#### **Further Information**

*For more information on the above, please contact a Plumbing Inspector at 604-983-7355*

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