

May, 2013  
BUILDING DIVISION

# ***A GUIDE FOR REQUIREMENTS WHEN INSTALLING A GEOTHERMAL SYSTEM***

The purpose of this bulletin is to describe the information and documentation necessary when installing a geothermal system.

This bulletin is a guide only and should be used in conjunction with all applicable regulations, including the Surrey Building By-law, the Surrey Zoning By-law, the BC Building Code and the CAN/CSA C448 Series – 02 Design and Installation of Earth Energy Systems and other applicable legal documents.

## **Requirements:**

### Covenant

A Covenant for the geothermal system is required. The precedent is available from the City upon request.

### Registered Professional to Provide:

1. Registered professional's Letters of Assurance (Schedule B) for the heating / plumbing design covering the following items:
  - 3.1 *HVAC systems and devices.*
  - 4.3 *Plumbing systems and devices.*
2. A P. Eng. sealed site plan showing the following items:
  - the proposed location of the geoexchange portion of the geothermal system;
  - north arrow, street names;
  - civic address and legal description;
  - location of all existing and proposed buildings, structures, well and septic system;
  - dimensioned location of proposed distribution piping trenches/bore-holes;
  - distance to any wells on adjacent properties;
  - location of existing buried services (i.e. gas, hydro, etc.);
  - property line (site) dimensions;

- location, size and species of all existing trees on the lot and any nearby trees on boulevards or neighbouring lots. For further information, please check with the Trees and Landscaping Section at 604-591-4675; and
  - easements, right-of-ways, watercourses and other covenant areas.
3. P. Eng sealed drawings showing the geothermal system including the heat pump and any system required to meet the overall heating requirement for the building.

If you have questions or concerns concerning geothermal systems, please contact the City of Surrey Building Information Line at 604-591-4366.

**Geothermal Documentation Checklist**

Required at Application Stage:

REQ'D: REC'D:

- Geothermal covenant, with letter of understanding from applicant's solicitor.
- Schedule B from P. Eng and to include items 3.1 and 4.3.
- Site plan

Required Upon Completion Prior to Final:

REQ'D: REC'D:

- Schedule C