

BUILDING PERMIT CHECKLIST FOR GEOTHERMAL INSTALLATION

The National Building Code 2019 Alberta Edition requires an Earth energy System (Geothermal) to conform to CAN/CSA-C448 Series-13

Please complete and attach this checklist to your permit application.

All boxes shall be "CHECKED" and all required supplementary documents included with your application. Documents must be clear, legible, accurate, printed to scale, and drawn to professional drafting standards.

The forms and documents referenced in this checklist are available at www.rockyview.ca/building.

Applicant's Checklist	For Office Use Only	Required Items
<input type="checkbox"/>	<input checked="" type="checkbox"/>	1) Building Permit Application - (note: estimated value of work includes materials, labour, contractor's fees, architectural and engineers fees; excludes the cost of land).
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2) Certificate of Title - Issued from registry within the last 30 days, including copies of caveats and covenants registered on the title by Rocky View County. It is the responsibility of the applicant / owner to ensure the work being carried out does not contravene the requirements of any restrictive covenants, caveats or any other restrictions registered against the property.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3) Utility Form
<input type="checkbox"/>	<input checked="" type="checkbox"/>	4) Hydrogeologist report (if applicable)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	5) Dimensioned Site Plans - two sets, (see Resources - Site Plan Information Sheet on website) including: <ol style="list-style-type: none"> All property lines and buildings on the property All underground utilities Existing trees, ponds, pavement, septic cyetms, easements, right of ways Layout of the geothermal system with distances dimensioned to surrounding structures and property lines Indicate borehole spacing and depth <u>or</u> horizontal depth and spacing Location and size of headers
<input type="checkbox"/>	<input checked="" type="checkbox"/>	6) Geothermal Design - submit the design including: <ol style="list-style-type: none"> Design and Installer's contact information and Canadian GeoExchange Coallition (CGC) Accreditation Number. (If not accredited, they must partner with an accredited firm) Drilling company contact information and Canadian GeoExchange Coalition (CGC) Accrediation Number Indicate if it is a horizontal or vertical system Indicate if it is an open or closed system. Open systems will require Alberta Environment approval. Detail piping specification, size and sealants (compatible with the fluid) Type of heat transfer fluid (antifreeze) and percentage of concentration Type of grout (if applicable) Comprehensive space heating/cooling load calculations, by software, by F280 or HRAI Comprehensive heating/cooling loads for peripheral systems (domestic hot water, pool/spa, snow melt, attached garge, outbuildings, etc.) Amount and type of back-up heat (if required) Heat pump specifications Specifications for all peripheral system (fan coils, heat exchangers, HRV's, etc.) Review wells, aquifers, water tables and asses subsurface conditions

FOR OFFICE USE ONLY

Checked by SCT _____ Date: _____

Checked by SCO _____ Date: _____

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