



Geo-Energie inc.

GEOHERMIA

Title and project location: MONT-LAURIER JUSTICE COURT OF LAW, MONT-LAURIER, QC
Implementation period (month, year) : From APRIL 2003 to FEBRUARY 2005
Client name: SOCIÉTÉ IMMOBILIÈRE DU QUÉBEC/ PLOMBERIE NEVEU & NEVEU

Construction or work costs

- **Total:** N/A
- **Professional's specialty related portion :** 430 000.00\$

SUMMARIZE THE NATURE OF PARTICIPATION OF THIS PERSON TO THIS PROJECT

A) Project description

Expansion and modernization of the Mont-Laurier Justice Court of Law, with high energy effectiveness design, using geothermics as main heating and air-conditioning source

B) Work scope

The following systems are affected: Complete refecton of the buildings heating and air-conditioning systems, with the use of a geothermic power station. On the whole, 12 000 feet of vertical geothermic exchanger were installed (24 wells of 500 '), a conductivity test was also performed. The mechanical room contains 4 geothermic heat pumps of 35 tons each (140 tons total), 4 buffer tank of 400 gallons, an auxiliary electrically heated boiler and several air handling units with heat recovery.

C) Main challenges for project realisation

The scale of the geothermic system (there were few systems of such capacity installed in the province at the time of its installation). System's factory pre-assembly. Maximization of the energy performance, particularly on pumping level, while maintaining user-friendliness

D) Contribution of this person in each stage of the project (nature of tasks and challenges)

Participation in planning meetings ; research of budgetary estimates for anticipated costs; design adjustment according to customer's budgetary availabilities, survey execution, blueprints and specs; on site meeting participation, assembly supervision, commissioning supervision, validation of the final control sequencing with the technician in charge of the SIQ. Installer training.

E) Method for respecting established timetable, blueprints and construction specifications

Constant remote and on site technical support during crucial installation and commissioning stages

F) How this person distinguishes himself

A thorough knowledge of commercial geothermics as well as an unquestionable leadership made it possible to start and to very quickly calibrate the geothermic components of the installation.



MONT- LAURIER, QC, JUSTICE COURT OF LAW

