



Geo-Energie inc.

GEOHERMIA

Title and project location: STCH Inc., Châteauguay, Qc, phase #1 et #2
Implementation period (month, year): From March 2005 to September 2006
Client name: Société de Transport Claude Hamel inc.

Construction or work costs

- Total: 600 000.00\$
- Professional's specialty related portion: 600 000.00\$

SUMMARIZE THE NATURE OF PARTICIPATION OF THIS PERSON TO THIS PROJECT

A) Project description

Construction (in 2 phases) of a transportation and logistics head office, including 7 000 ft² of office space and 66 000 ft² of warehouse space, entirely heated and air-conditioned by geothermics.

B) Scope of work

Two (2) geothermic systems installation, totalling 48 tons installed and 160 kW of electrical auxiliary heating, 6 600 feet of drilling divided into 12 wells, the warehouses are entirely heated by hydronic radiant floor heating, the offices combine both floor and fan coil hydronic heating. Three (3) regenerative heat exchangers (thermal wheel) ensure sustained interior air quality. The system's control is entirely centralized on a friendly user interface.

C) Main challenges for project realisation

Maximize energy efficiency, energy economy and the return on investments (ROI). One of Quebec's 5 first projects to use a floor hydronic system as a partial source of air conditioning source.

D) Complexity and scale of the project (tender cost and actual cost)

The project was to make it possible to heat the warehouse while air-conditioning the offices, without generating additional energy expenses. Moreover, moisture control and dew point is crucial in a warehouse environment where floors are cooled in the summer, to avoid safety problems that surface condensation would pose.

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

Budgetary estimates for anticipated costs; geothermic systems design, blueprints and specs, technical support during start-up.

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

Maximization of on site resources, training of project contributors

G) 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.



STCH Inc., QC



PHASE #1

PHASE #2



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