

Peter J. Tavino Jr., P.E. PC

Civil Engineering and Site Planning

Geothermal Energy Systems

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CUSTOMER PURCHASE AGREEMENT
GEOTHERMAL HEATING AND COOLING SYSTEM 03/31/11

Certified Geothermal Installer,
& fully Eligible CCEF Contractor:

Peter J. Tavino Jr. PE PC
dba Litchfield Geothermal
PO Box 277, Litchfield, CT 06759

Client Customer:
& Project Location:

Gunn Memorial Library
5 Wykeham Rd.
Washington, CT

Description of Work:

Oversee design and installation of a geothermal heating and cooling system for the library at the project location noted above.

Peter J. Tavino Jr. PE PC, as an approved installation contractor with the Connecticut Clean Energy Fund will oversee all outside work by an approved well drilling contractor to install the ground exchange loop piping. All work is to be performed to all applicable codes and standards. The system will be designed and will be installed to conform to all International Ground Source Heat Pump Association methods, and the new CT well and geothermal code.

The attached drawing shows the proposed 400' deep 20' on center boreholes and horizontal trench to contain High Density Polyethylene Pipe connected to the library by a 5' deep trench away from obstacles and existing facilities.

Peter J. Tavino Jr. PE PC will assist in the CCEF application and rebate, by completing forms for and with the Gunn Memorial Library. The CL&P/CCEF rebate must be secured in conjunction with the CCEF rebate. Peter Tavino will meet on site

with the CL&P representative and Gunn memorial library representatives after an energy audit and assist with the CEEF application form.

Peter J. Tavino Jr. PE PC will help select a low bidding well driller, and inspect the drilling and K= 1.0 or 0.8 grouting operation performed by the licensed driller under separate referenced contract to be paid directly by the Gunn Memorial Library, but who will be associated under Peter J. Tavino Jr. PE PC's installer credential for CCEF rebate purposes. If CCEF requires prevailing wages, it will be so paid, if rebate is pursued.

Excavation, estimated to be a few hours of work, digging and backfilling 130' x 5' deep, will be performed by the Gunn Memorial Library who will have a backhoe/ excavator on site, and will be as directed and supervised by Peter J. Tavino Jr. PE PC. Peter J. Tavino Jr. PE PC will oversee all approved reverse return manifold heat fusion, Loop Pipes laid into the trench and through the foundation wall by the driller.

Interior work minus ducts will be performed by an approved S-1 licensed HVAC contractor all per their contract with Gunn Memorial Library. Peter J. Tavino Jr. PE PC's role inside will be limited and advisory only, with the HVAC Contractor in charge inside. Only new AHRI approved equipment will be allowed. If use of existing older equipment is selected by owner (with rebate penalty) this will not affect Peter J. Tavino Jr. PE PC's payment agreement. Peter J. Tavino Jr. PE PC will prepare a PE stamped site plan showing trench & boreholes. The HVAC Contractor will supply the VIP data for CL&P.

Payment terms:

At the signing of this contract, Peter J. Tavino Jr. PE PC will be paid \$550 to submit the CCEF application form. Existing duct design approvable by CCEF is to be made available by Gunn Memorial Library. After the form has been submitted and SHPO has had a month to review, and CCEF approves, and after the boreholes have been drilled and inspected by Peter J. Tavino Jr. PE PC, and after all 1 1/4" U-bend loops have been installed and grouted and inspected by Peter J. Tavino Jr. PE PC, and the horizontal trench certified fused by the driller, covered by Gunn Memorial Library's excavator, inspected and approved by Peter J. Tavino Jr. PE PC, Peter J. Tavino Jr. PE PC will be paid \$1800. This work is to be completed by June, 2011, with a \$200 per month fee for any delay.

After the system is commissioned and approved, and upon receipt of these rebates by the Gunn Memorial Library, Peter J. Tavino Jr. PE PC will be paid \$600 as the balance lump sum of \$2950 by the Gunn Memorial Library, after the Gunn Memorial Library has received the CCEF check. This work is to be completed by September, 2011, with a \$200 per month fee for any delay.

So agreed: _____

Peter J. Tavino Jr. PE PC 03/31/11

_____ 04/03/11
Gunn Memorial Library

