

HIGH EFFICIENCY SELF-SUSTAINING HOMES

WHAT I DO FOR MY CLIENTS

I plan and design homes to satisfy the needs and desires of my clients, taking into consideration the size, shape, and orientation of their land and the multitude of governmental constrictions imposed on their specific piece of property. As I develop their homes, I help my clients visualize design ramifications with interactive 3-D software. This creates a synergy that assures architecturally attractive indoor and outdoor spaces that are comfortable and healthy for my clients, their guests, and our blue planet, - the earth.

HIGH EFFICIENCY, NEAR-ZERO ENERGY, GREEN, SELF-SUSTAINING HOMES

I implement state of the art construction technology to achieve a self-sustaining house that is a fully automatic living environment in harmony with nature. It uses less energy, water, and natural resources; creates less waste; and is healthier for its inhabitants. More comfortable and durable than conventional homes, the house has reduced greenhouse gas emissions and reduced exposure to mold, mildew and other indoor toxins. Generating most of the electric power it needs from the sun through photo-voltaic cells, it uses "near zero" energy from "the grid". This automatic operation is accomplished with minimal intervention and minimal cost by its inhabitants. In addition all materials specified in the design of the house are environmentally friendly and require minimal care or maintenance.



Famous million-dollar swimming pool designed by Louie Lindiakos, AIA

SUPER INSULATED HOUSE

The exterior shell consists of Structural Insulated Panels (SIPS) and Insulated Concrete Formed (ICF) walls. Thus the entire house from the basement floor to the roof and within the perimeter walls is super-insulated and sealed to minimize undesirable air infiltration. Noise is minimized to a much greater degree than conventional building systems. Air-to-air exchangers introduce controlled and tempered fresh air into the indoor living environment.



A conceptual house and pool study for a discriminating client

HEATING, VENTILATING, AND AIR CONDITIONING

The house is planned as fully conditioned space, thus all heating, ventilating, and air conditioning equipment, piping and ductwork, is within the conditioned space. The entire house has Radiant Heating using warm water and thermal mass because it heats comfortably and silently by conduction, convection, and radiation. It is installed in all of the floors, throughout the entire house. Water is heated using solar hot water collectors and/or the earth itself, using geothermal energy. Advantageously independent of the heating system, air conditioning registers are placed up high to allow conditioned air to drop and cool naturally. Fossil fuel burning equipment is installed as emergency backup, and to supplement possible down time of the passive systems.

YOU'LL GET WHAT YOU PAY FOR, AND YOU'LL REAP SOME WONDERFUL, HEALTHY BENEFITS

The construction cost of a high efficiency home of this caliber is slightly higher than conventional construction, but the cost difference should level off within the first four years, followed with huge savings in energy costs. You'll end up with a well-designed home and financial value in your property that will be much greater than your total investment in land, design, and construction.

Contact me to review your ideas. You'll be glad you did.



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New Homes – Additions – Alterations