

# The Power to Save

Preserve our environment and make some change

## Locklear Residence

*Fort Collins Utilities Integrated Design Case Study*

### *Designing a Better Home*

Located on a waterfront site with mature trees, this single family residence was designed by JCL Architecture to take advantage of the view looking directly at Longs Peak. The extensive landscape is of native drought tolerant plants. This project adheres to the main principals of sustainable design and building. First and foremost, the project's minimal footprint and square footage decreases the impact on the environment and resources needed, which is unusual for projects in this price range. Another key principal is the orientation of the building and passive solar design; both were integral to the design from the start. This project used a geothermal mechanical system for radiant heating and cooling as well as sustainable finishes. This was a true collaboration between owner and architect and created a lifelong relationship.



*The new home was designed to minimize square footage without sacrificing aesthetics or function, utilizing sustainable materials and systems.*

Although the client is not seeking LEED certification, the project includes many “built green” sustainable features throughout, including the use of natural daylight, reduced solar heat gain, geothermal heat exchanger for radiant heat and high-velocity cooling, as well as low VOC materials and finishes.

The owners approached the project from a long-term standpoint. This is evident in the costs of operating the home, but also in the design. Lifecycle costs of products and equipment were performed for selection. The design includes room for a future elevator to access the four primary levels. Also a caretaker living suite above the detached garage adjacent the home was designed into the project.

## Project Details

### **Facility:**

Locklear Residence

### **Design Team**

Architect: JCL Architecture, Inc.

Contractor: LR Barker Builder

Civil Engineer: Northern Engineers

Structural Engineer: CSE Consultants

Mechanical Engineer: RPM Mechanical



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