

# MILES YANICK + COMPANY

ARCHITECTURE LAND PLANNING INTERIORS LANDSCAPE DESIGN

## Remodeling an Older Home and Being Energy Efficient

**Now is a great time to remodel!** Contractors are eager to have work and are willing to give some very good deals on construction costs. It **IS** possible to do a complete remodel and not only get the space you need but also make your home much more energy efficient.

### Way Ahead of the Curve

The picture to the right shows a 1,500 sq ft two-story addition to an existing 1960's era, 800 sq ft single-story home. The addition features R-60 roof and floor insulation and R-30 wall insulation. The addition is solar oriented with large glazing areas. The original home was insulated with R-38 roof insulation and R-19 floor insulation. No new insulation was added to the walls of the existing home. The home also features eco-smart building materials, high efficiency heating and cooling, storm water management techniques, construction waste management, drought tolerant landscaping and environmentally responsible location aspects.

### "Passive Haus" Super Energy Efficiency

The latest energy conservation rating from Europe today is the "Passive Haus" (House) Standard. It requires that the home achieve a maximum use of 10 kilowatt hours per square foot per annum. This home's energy usage is less than 67% of the Passive Haus Standard. A tabulation of the actual energy usage and the usage-per-square-foot is noted to the right.

### LEED Rating

This home remodel and addition designed by Miles Yanick & Company in the year 2000 and constructed in 2001, was years before the LEED for homes criteria was established and could not technically be certified at that time. Today it would qualify as "Platinum" rated, which is the highest rating achievable.



### 2009/2010 Energy Usage

Month	KWH Used	Amt. Billed	
January	2,463	\$ 230.62	AREA OF HOUSE = 2,320 SF
February	1,830	\$ 169.97	
March	1,766	\$ 163.31	PASSIVE HAUS STANDARD=
April	1,828	\$ 168.83	10 KWH per SF OR LESS
May	987	\$ 67.66	
June	1,039	\$ 95.74	15,459 KWH ÷ 2,320 SF =
July	715	\$ 64.59	6.66 KWH PER SF PER YEAR
August	638	\$ 56.38	
September	675	\$ 59.84	USAGE IS 33.4% LESS THAN
October	738	\$ 66.04	PASSIVE HAUS STANDARD
November	1,054	\$ 97.52	
December	1,726	\$ 162.02	
<b>TOTAL</b>	<b>15,459</b>	<b>\$ 1,403.00</b>	

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