STRATEGIES AND RESULTS
Project team looked at using an integrated approach to creating a green home. “First Costs” of installations were weighed against ongoing costs of operation and maintenance. Solar orientation, cross ventilation and other passive techniques were considered during the design process to ensure efficiency was maximized. Diversion of construction waste, use of an “in fill” lot, specification of local materials and attention to durability detailing adds further to the environmental responsibility of the home. Results are an energy efficient home that offers low utility rates to the owners without sacrificing performance and comfort.

EXEMPLARY PERFORMANCE
Selection of an “in fill” lot offered the owners existing infrastructure, utilities and local amenities, all close by. Extreme attention to the building envelope’s construction resulted in very low air infiltration rates and excellent thermal performance. Specification of low flow plumbing fixtures, dual flush toilets and native landscaping also ensure water efficiency for the everyday operation of the home. Efficient mechanical systems coupled with passive design strategies result in low usage of energy for much of the year.

PROJECT BASICS
Project Type: Single Family
Conditioned Space: 2440 sq ft
Bedrooms: 4
Bathrooms: 2
Lot Type: Infill
Construction Type: New Construction

KEYS TO SUCCESS
Air Filtration: 1.7ACH@50p
Passive Systems: Solar Orientation
In Fill Site Selection: Efficient Mechanical Systems
Water Efficiency: No VOC interior products and finishes
Local Materials Sourced: 
Efficient Mechanical Systems: 

THE LEED FOR HOMES DIFFERENCE
Construction Waste Management Plan: YES!
On-Site Performance Tests: YES!
Custom Durability Planning Checklist: YES!
Third-Party Verified Documentation: YES!

About the Project Team
A joint collaboration between the architect, owner and contractor made this project possible. The project team was set very early in the process for continuity, cost control and to integrate green strategies.

Architect:
Demerly Architects
www.DemerlyArchitects.com

Contractor:
The ReDevelopment Group Inc.
www.redev.net
317.281.0506

About LEED for Homes
LEED for Homes is a voluntary, third-party certification program developed by residential experts and experienced builders. LEED promotes the design and construction of high-performance green homes, and encourages the adoption of sustainable practices throughout the building industry.

www.usgbc.org/homes