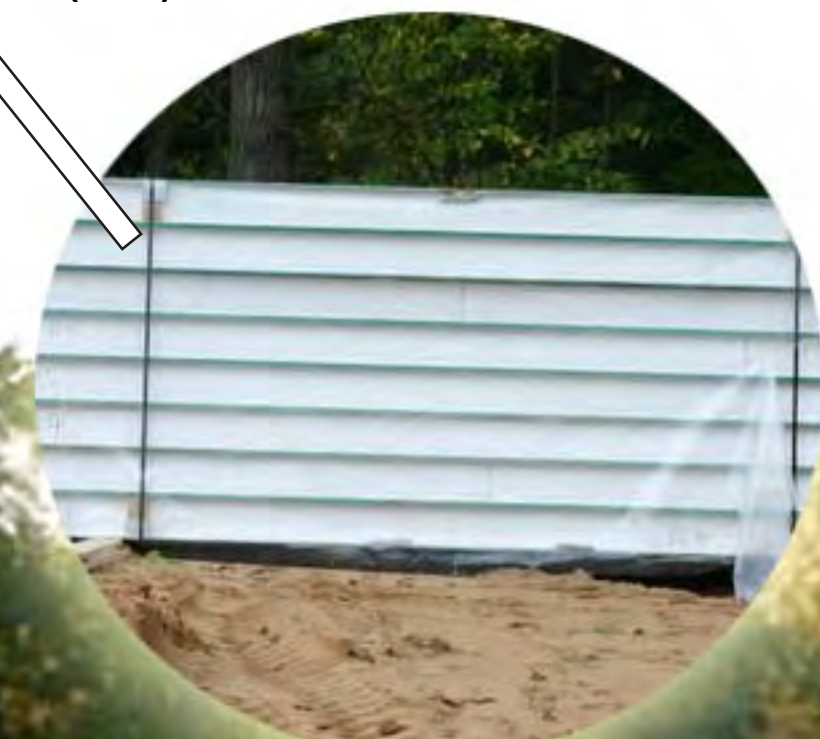


WHAT MAKES THIS HOUSE MORE SUSTAINABLE?

House is built from Structural Insulated Panels (SIP)



Metal roof eliminates the need for replacing shingles and is entirely recyclable.



Home is heated and cooled with a geothermal system, 500 feet of tubing buried 7-feet down in the back yard.

Vast majority of unused material was recycled, including drywall, metal, cardboard, paper and wood.



Siding material is fiber cement, anticipated to not need restaining for up to 15 years; also is un-appealing to bugs and wood peckers.



Rain barrels utilized to capture roof run-off.

Decking pressure-treated with non-arsenic based preservatives

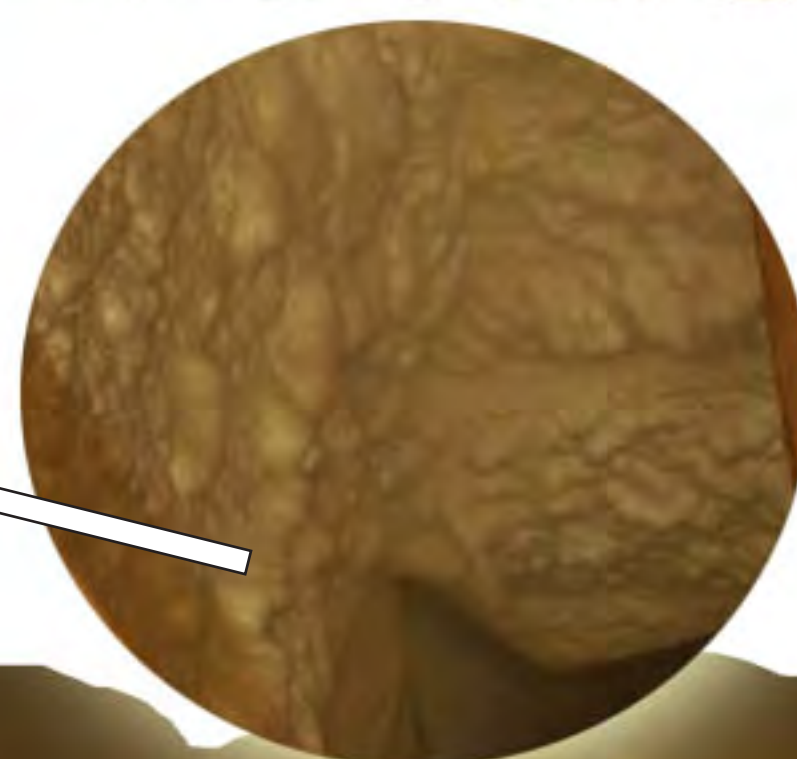
Driveway made of poured concrete (as opposed to asphalt, which is a petroleum product) both for durability and for being a reflective (non-heat-sync) surface.

Landscaping designed for minimal upkeep (no more mowing of grass!) Water management design directs flow away from house.



Entire foundation wrapped in insulation; exposed portions treated with Tuffcoat to protect from abrasians and ultra-violet radiation. Insulation also provides radon barrier beneath the basement floor.

Non-SIP ceiling sections insulated by 6 inches of spray foam.



All retaining walls made from recycled MDOT guard rail timbers (thanks to craigslist.com!)



All appliances are Energy Star rated, most lights are compact fluorescent.



All surfaces painted with low-or-no-VOC (Volatile Organic Compound) paint and primer

Dual-flush toilets and low flow fixtures throughout house



Dedicated paper-management area has isolated power outlets, allowing any recharging device to be easily switched-off.

Cabinet construction with no formaldehyde



All timbers and tongue & groove material made from regionally harvested pine and white cedar; doors manufactured locally near Caledonia.



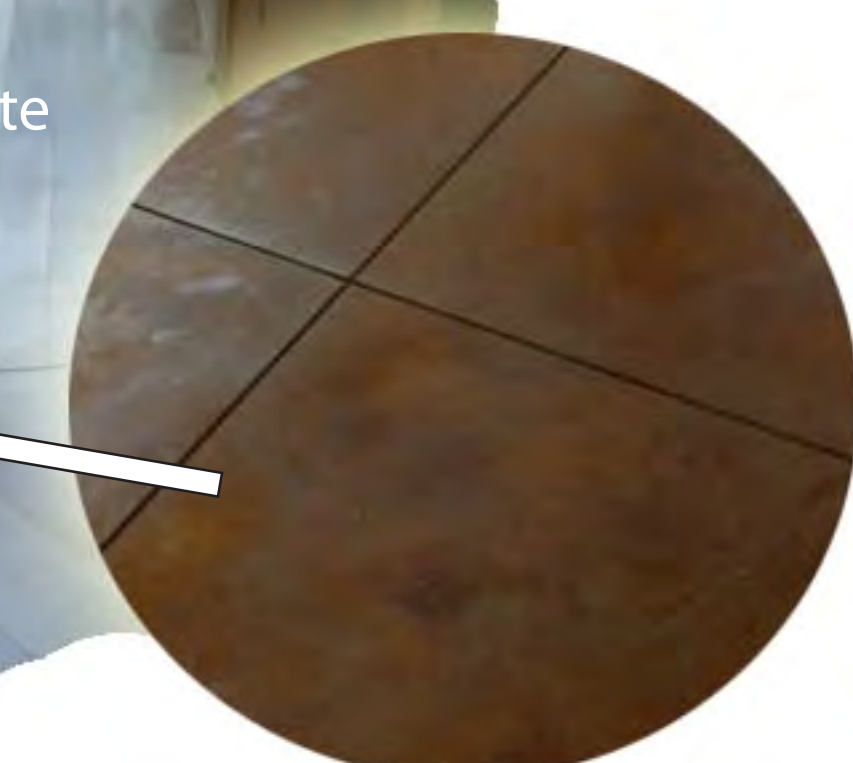
Floors on both levels contain radiant heat tubes, eliminating dust resulting from a forced-air furnace; home does have an Energy Recovery Ventilation (ERV) system for refreshing the air, throughout.



Hickory flooring harvested from sustainable forest, sold and installed in varying lengths, virtually eliminating waste.



Basement poured-concrete floor stained with simple iron-sulphate and water solution.



Floor joists build without the use of metal brackets (open web) reducing unnecessary materials and making handling safer.



INTEGRATED PROJECT TEAM



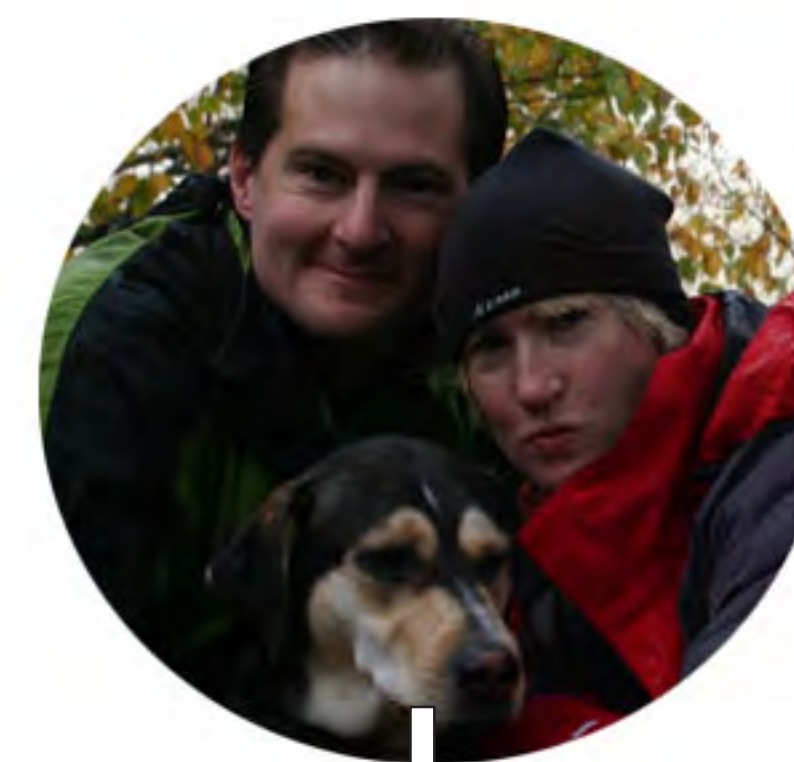
Jim Karczewski
Architect and Post/Beam Fabricator



Dan Vos
General Contractor



Chip Hansen
Builder



Klaas Kwant & Candace Cowling
Owners, Project Managers, General Laborers

Target LEED rating of Silver.
Preliminary assessment by Mike Holcomb,
Home Inspector General

Learn more at www.ournarnia.org