

R-2000 Homes In Vancouver Tomorrow

More of the Good Things We Have Today

Healthy indoor air quality with good ventilation and high performance equipment
 Energy efficient & durable building envelope - windows, walls ...
 Passive Solar Design & Flexible Design
 Aging in place design & Multi-generation co-housing
 Healthy, low maintenance, low life-cycle cost material
 Integration with consumer education
 Ground source heat pumps with Prewiring for Net-Zero Energy
 Free-cooling for summer
 Rainwater collection and management
 Low-impact landscaping design



More of..... Main floor powder rooms designed to be readily convertible to Accessible Shower Rooms to facilitate aging in place and the caring of elderly family members



More of..... Compact Fluorescent Lighting

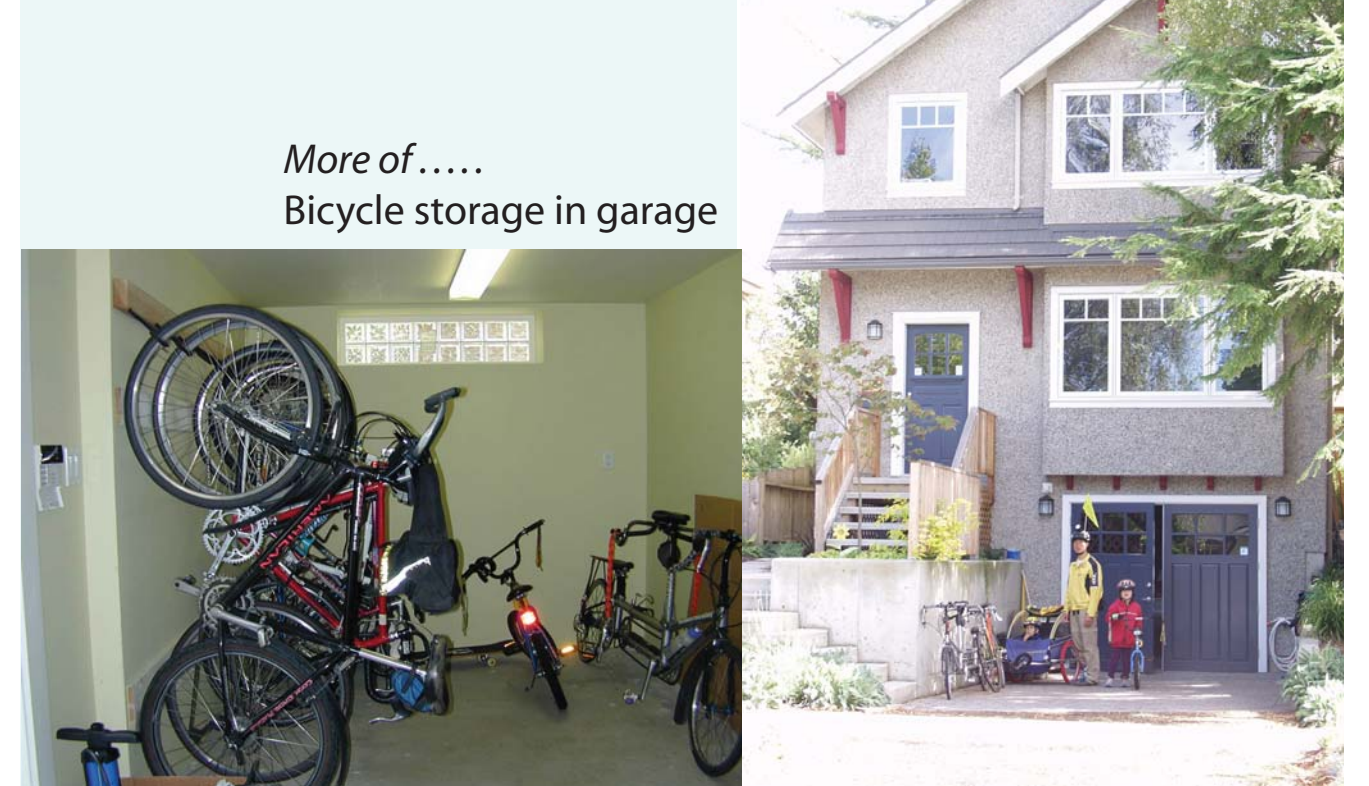
More of..... Bamboo Flooring-harvesting of bamboo once every 4-5 years instead of cutting down trees.

In Tomorrow's R-2000 Homes

We will see *all of the above, plus*
 Variety of design to support sustainable lifestyles
 Bountiful rain gardens
 Different types of porous paving material
 Grey water reuse
 More choices of renewable material
 Fluent integration with consumer education
 R-2000 serving as demonstration for Built-Green Homes



BuiltGreen™
BRITISH COLUMBIA



More of..... Bicycle storage in garage

Rain gardens soak up urban storm water pollution

"Properly designed rain gardens can effectively trap and retain up to 99 percent of common pollutants in urban storm runoff, potentially improving water quality and promoting the conversion of some pollutants into less harmful compounds", according to new research published in the 2006 Feb. 15 issue of the American Chemical Society journal, Environmental Science and Technology.

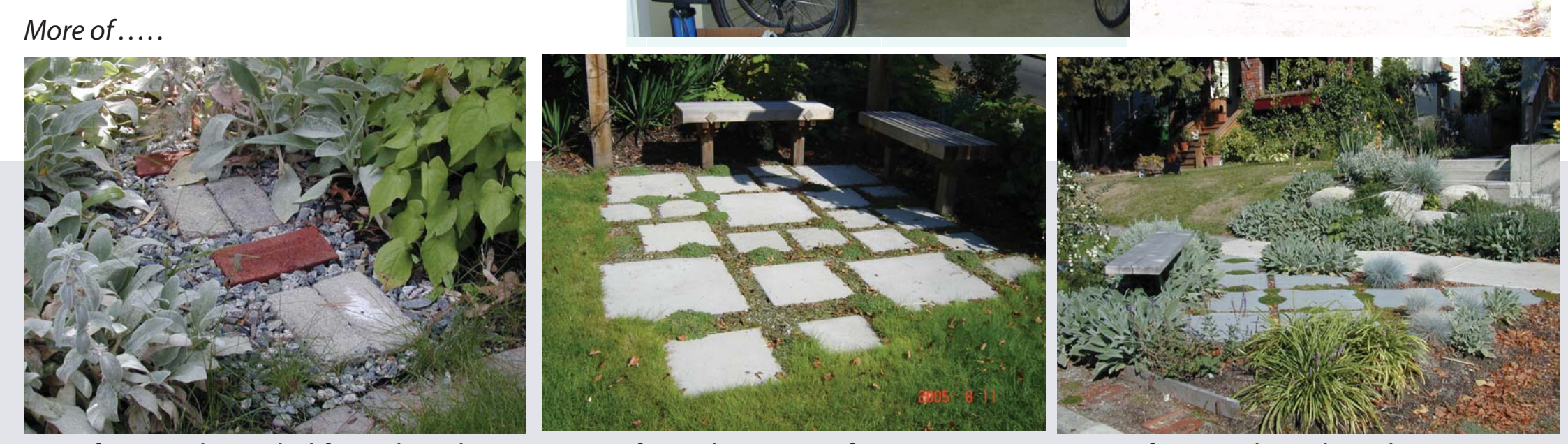
<http://cleanwater.uwex.edu/pubs/raingarden/rgmanual.pdf>

Rain Gardens are :

affordable, easy-to-design, pleasing to look at
 are designed to replicate the natural water cycle that existed before roads and other impervious surfaces were constructed
 significantly reduced concentrations of nitrates, ammonias, phosphorous and other pollutants reaching storm drains
 can be tweaked with a permanent wet zone to convert harmful nitrates into nitrogen gas

For more information about designing and constructing rain gardens, visit

<http://cleanwater.uwex.edu/pubs/raingarden/rgmanual.pdf>



Use of material recycled from demolition

More of..... Alternatives for Lawns

More of..... Boulevard Gardens



Grass Pavers at vehicle access

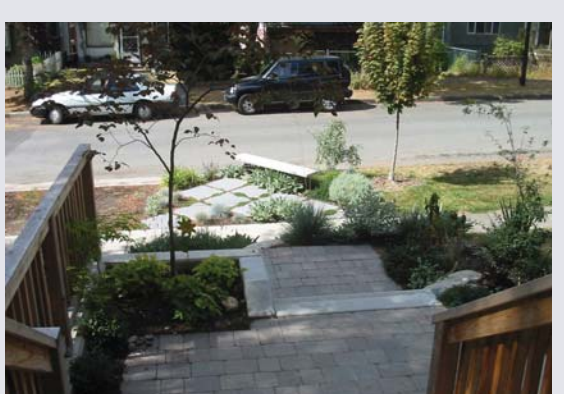


More of..... Boulevard Gardens & Waterwise Gardening



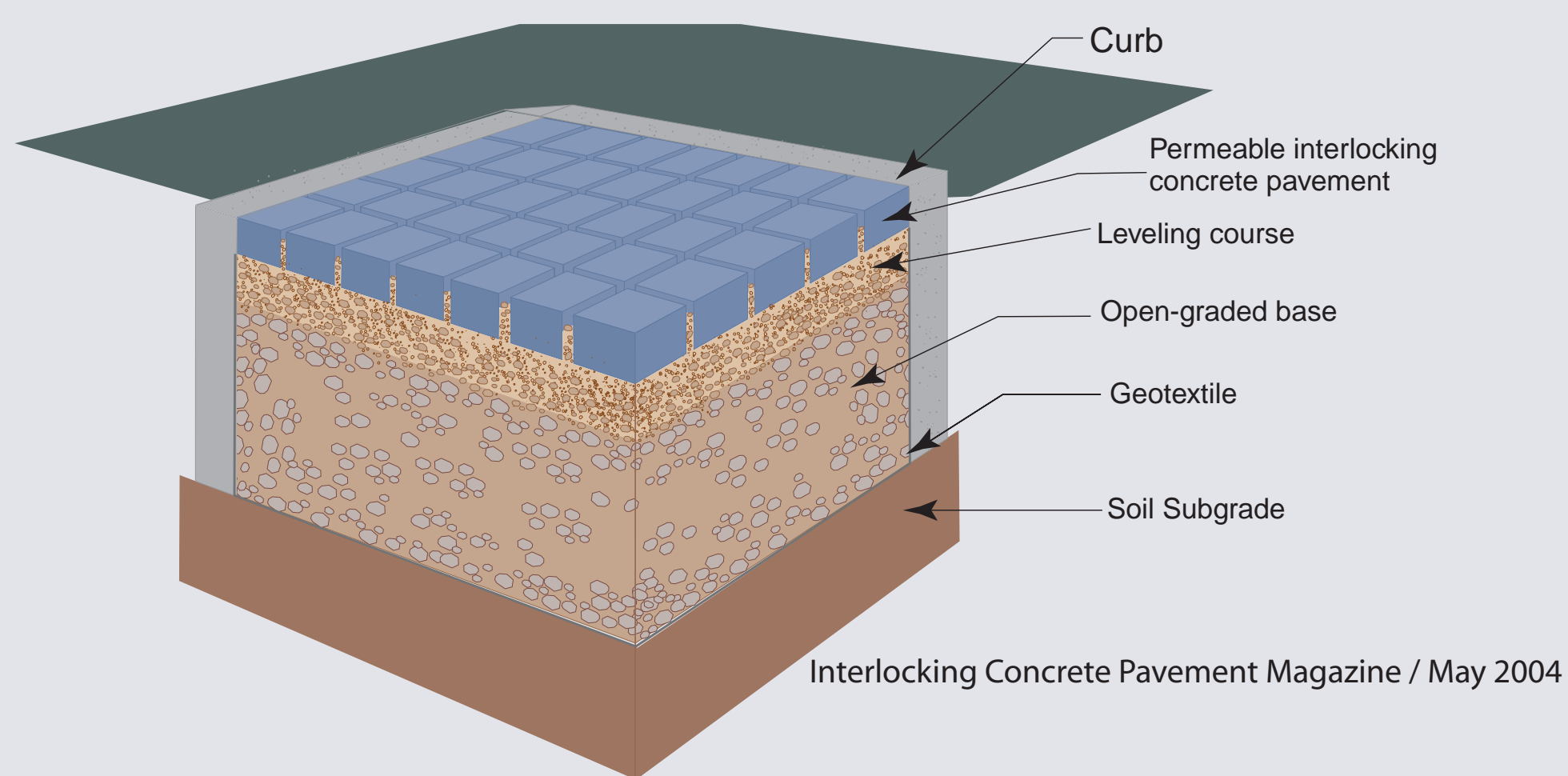
http://www.raingardens.org/Create_A_Garden.php

<http://www.raingardens.org/Index.php>

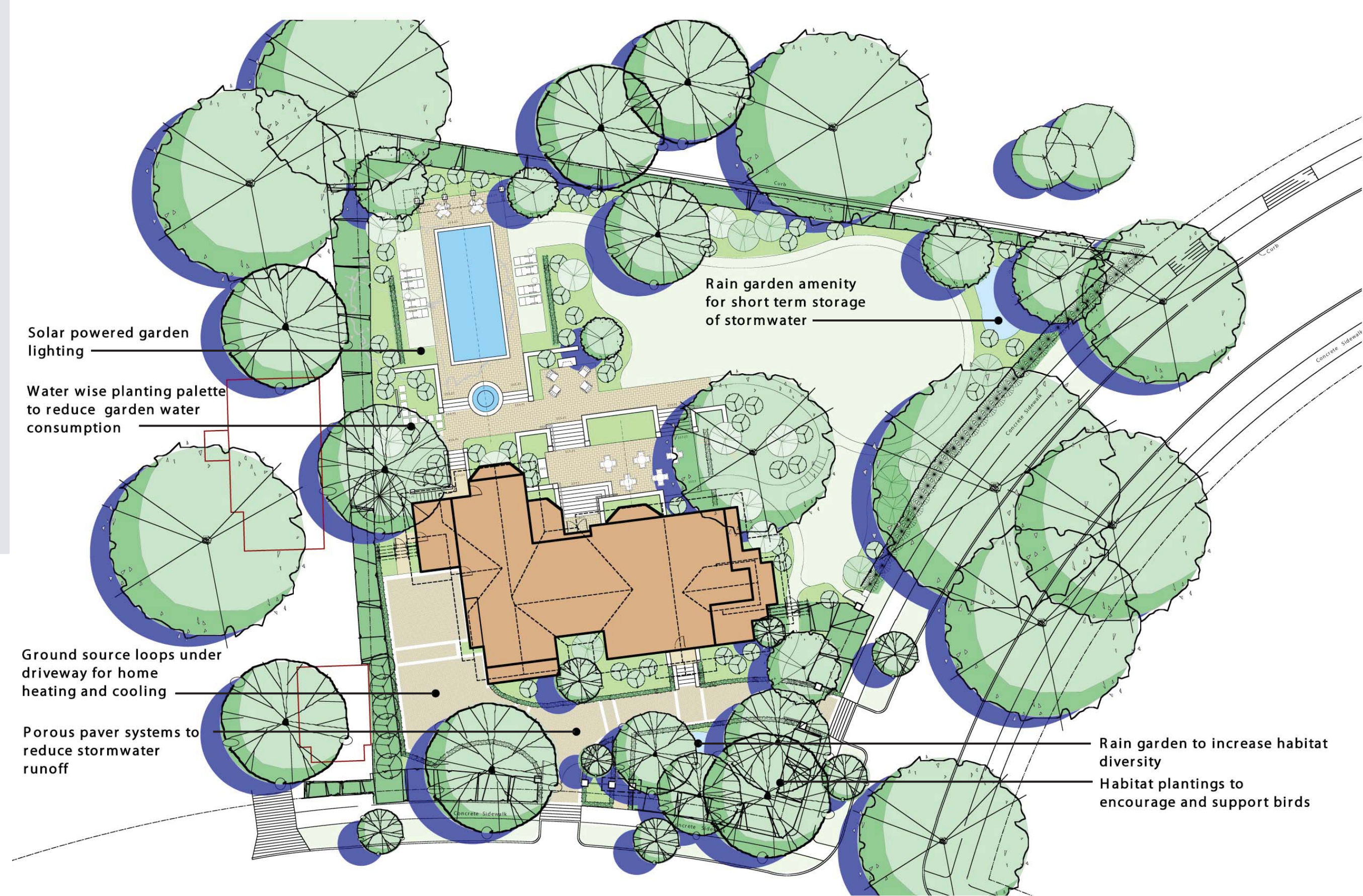


An R-2000 Home in First Shaughnessy

Design-Build Contractor: WISA Healthy Homes
 Architect: Richard Kadulski Architect
 Landscape Architect: Richard Stevenson Associates



Porous Paving
http://www.mutualmaterials.com/Professional_product.asp?pt_id=123&p_id=304



R-2000 Retrofits in Vancouver - designed, evaluated, built, tested and certified R-2000



WISA Healthy Homes

Where R-2000 is the Minimum Standard

