



CYNTHIA KNAUF

LANDSCAPE DESIGN, INC

GREEN DESIGN PROJECTS

The River House Green Roof

Moretown, Vermont

The extensive green roof garden on this new Net-Zero Energy home supports an interesting composition of sedum, wildflowers and grasses, which provides year-round interest and contributes to the integration of house with the natural ledge and vegetation of the site. Environmental benefits are significant, including energy efficiency and the reduction and management of storm water runoff. Most of the water is absorbed and returned to the atmosphere, with minimal residue water collected in richly planted stone-lined rain gardens at the base of the house foundation. Collaboration with William Maclay Architects.



Seventh Generation Living Wall

Burlington, Vermont

The first thing you see upon entering the Seventh Generation office is a two-story tall recycled content steel wire trellis panel that will soon support a lush tapestry of vines with varying shades of green. These vines provide the necessary microbes for transforming typical indoor air contaminants into harmless water and carbon dioxide. Symbolically, this living sculpture also reminds visitors of Seventh Generation's commitment to 'become the world's most trusted brand of authentic, safe and environmentally-responsible products for a healthy home'. Collaboration with William Maclay Architects.



Seventh Generation Green Roof

Burlington, Vermont

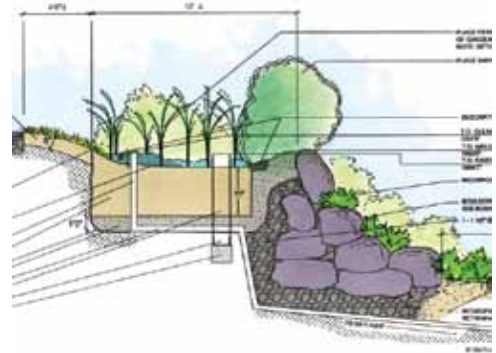
This employer is committed to providing a healthy workplace for its staff, which now includes a roof garden terrace that orients west to the adjacent Lake Champlain and distant Adirondack Mountains. Employees enjoy a variety of spaces, group or intimate, for taking a break or conducting a meeting. The green slate walkways from southern Vermont and the speckled gray granite terraces from the state's capital region reflect Seventh Generation's commitment to local community and environment. The colorful and fragrant composition of native wildflowers and edible-berry plants including local blueberry, will soon envelope the spaces with the richness of nature. Collaboration with William Maclay Architects.



The Putney School Permeable Paver Courtyard

Putney, Vermont

The Putney School Fieldhouse is a new sustainable, green educational facility on campus, which is projected by the School to receive at least a LEED Gold certification. The new associated courtyard, connecting the existing Student Union building with the Fieldhouse and providing a much needed central social space with gardens, will contribute to the certification with the permeable paver surface. Permeable pavers significantly reduce stormwater and associated contaminant runoff by allowing infiltration of rain into the subsurface and, ultimately, the water table. Collaboration with William Maclay Architects.



Sugarbush Home Rain Garden

Warren, Vermont

One of the conditions of the local permit for the construction of this new mountain home was to maintain all additional stormwater runoff that the new roof will generate within the property boundaries. In collaboration with a local hydrologist, a large bioretention area was designed to collect and temporarily hold most of the roof runoff into a unique composition of special soil and native wetland plants so that the water can slowly percolate into the earth rather than drain to adjacent properties and water sources, and potentially cause erosion. At the same time, this 'rain garden' will be a beautiful entry focal point as it provides color, texture and fragrance, and attracts butterflies and hummingbirds. Collaboration with William Maclay Architects.



Meadow Home Rain Garden

Morrisville, Vermont

A rain garden was installed to collect large amounts of rainwater that accumulates in a significant roof valley during heavy storms. This feature discretely performs the function of carrying excess water away via subsurface drains, while blending with the adjacent mature bonsai garden. Drifts of ferns, wet-tolerant shrubs and river rock emulate a woodland brook, which overlaps with the existing patio / garden space.

