

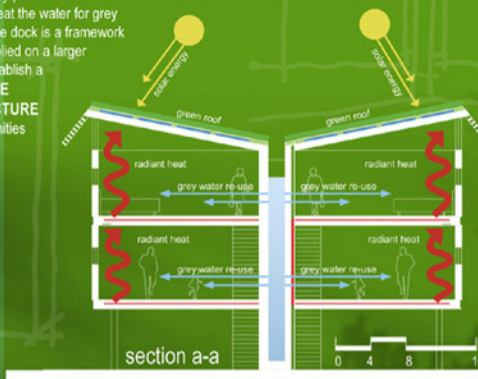
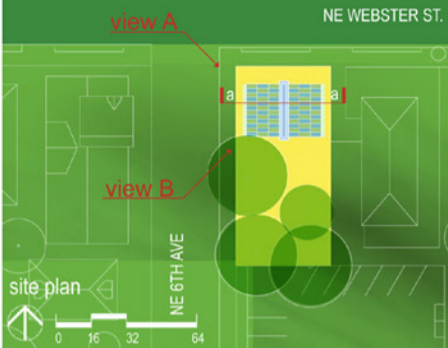
The dwelling dock

CASCADIA EMERGING GREEN BUILDERS NATURAL TALENT DESIGN COMPETITION 2007

Project Goals:

- + fully integrated sustainable design
- + collect rainwater for re-use
- + produce energy on site
- + minimize site disturbance
- + preserve existing site resources - trees
- + minimize site water runoff
- + use locally produced materials
- + use recycled and low VOC materials
- + maintain modern regional vocabulary that informs community of design intent

stems from an idea that truly sustainable communities can only be achieved when we choose to fully integrate their framework into our daily lives. Sustainability should begin with the most basic building block of our communities (the dwelling) and radiate out from there. The Dwelling Dock attempts to better integrate the **INFRASTRUCTURE** of a HOUSING UNIT with the environment in which it is located. Heat and water are **COLLECTED** and **STORED** by an infrastructure that is fully **INTEGRATED** into the building design. Resources are stored in the **DWELLING DOCK** and are re-used to **POWER** the dwelling, **IRRIGATE NATIVE LANDSCAPING**, and **REDUCE POTABLE WATER DEMAND** in each housing unit. **PREFABRICATED UNITS** plug into the dwelling dock to take advantage of these stored resources. Due to its large thermal heat capacity water is naturally preheated in the dock **REDUCING** the amount of **ENERGY** necessary to heat the water for grey water uses. The dock is a framework that can be applied on a larger scale to set establish a **SUSTAINABLE INFRASTRUCTURE** for our communities of tomorrow.



A: view from across street



B: view from backyard

