



# Green Infrastructure & Stormwater Management CASE STUDY

## Oregon Sustainability Center (Schematic Design Phase)

**Location:** Portland, OR

**Client:** City of Portland, Oregon University System, Portland Development Commission, Portland State University

**Design Firm(s):** Nevue Ngan Associates; SERA Architects; GBD Architects

**Landscape architect/Project contact:** Kevin Robert Perry, ASLA

**Email:** [kevin@nevuengan.com](mailto:kevin@nevuengan.com)

**ASLA Chapter:** Oregon

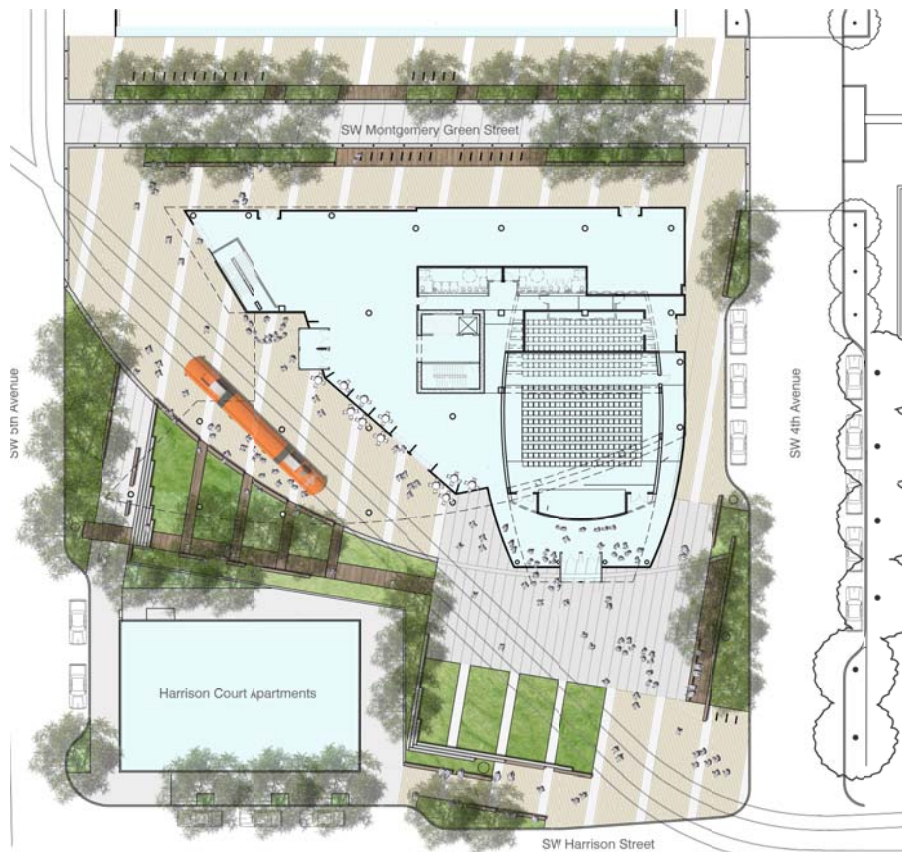


Image: Kevin Robert Perry, ASLA

### Project Specifications

**Project Description:** The Oregon Sustainability Center is Portland's, and perhaps the nation's, first high-rise downtown building to meet the rigorous prerequisites of the Cascadia Region Green Building Council's Living Building Challenge. The proposed Oregon Sustainability Center

is located along the SW Montgomery Street between SW 4th and SW 5th Avenue. Once completed, the Oregon Sustainability Center will produce 100% of its energy on site through self-sustaining energy generation and distribution systems; its design also includes integrated water reuse (for black, grey and storm water management), net-zero energy consumption. The landscape architect is currently working with a diverse project team to create a design that distinctly reflects a Pacific Northwest theme, boldly greens the project site, fosters innovation, helps meet the criteria established by the Living Building Challenge, and creates inspiration and beauty. The landscape component for the Oregon Sustainability Center will integrate the values of ecological sustainability to the building, street, and south side plaza spaces. The landscape architect is currently working on schematic design drawings for the Oregon Sustainability Center.

**Project Type:**

Institutional/education

A retrofit of an existing property

**Design features:** Bioretention facility, rain garden, green roof, cistern, downspout removal, porous pavers, green walls, and stormwater planters will also be used.

**This project was designed to meet the following specific requirements or mandates:**

State statute, local ordinance, funding criteria, and developer/client preference.

**Impervious area managed:** 1 acre to 5 acres

**Amount of existing green space/open space conserved or preserved for managing stormwater on site:** less than 5,000 sq/ft

**Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements?** The Living Building Challenge requires that the site generate all of its own energy, manage 100% of its waste, provide usable green space, and aesthetically enhance the community.



Image: Kevin Robert Perry, ASLA

## Cost & Jobs Analysis

**Estimated Cost of Stormwater Project:** >\$5,000,000 (Public funding: Federal, state, regional, and, local)

**Was a green vs. grey cost analysis performed?** No

**Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)?** Did not influence costs.

**Number of jobs created:** Not available

**Job hours devoted to project:** Not available

## Performance Measures

**Stormwater reduction performance analysis:**

It is mandated that the Oregon Sustainability Center will manage 100% of its stormwater runoff onsite through site re-use and infiltration.

**Community & economic benefits that have resulted from the project:** The Oregon Sustainability Center is expected to spur new job and housing growth throughout the downtown neighborhood and increase the property value of surrounding parcels.

## Additional Information

**Links to images:** Drawings can be made available by contacting Kevin Robert Perry at 503-239-0600 or email at [kevin@nevuengan.com](mailto:kevin@nevuengan.com)