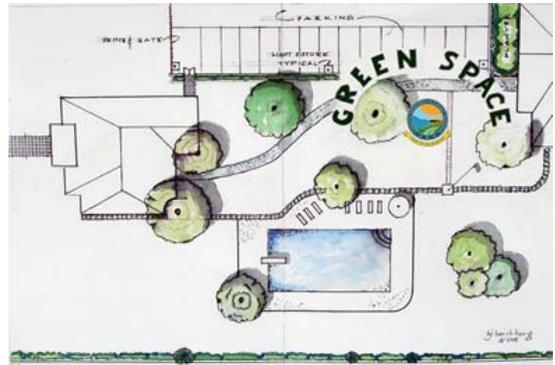


GreenSpace - Nueva School's Hill Side Learning Complex in Hillside, California

Designed by L. M. Stacy Architects



BY HOWARD HERSHBERG



This is the Nueva School's Hill Side Learning Complex in Hillside, California. L. M. Stacy Architects designed the project. The project earned a LEED Gold rating from the U.S. Green Building Institute.

Green and sustainable features in this design include:

- The project is aligned along the ridge of the hill which the project is constructed on to minimize earthwork and excavation.
- Large windows, tall ceilings and a narrow building footprint allow natural light to reach 90% of the interior spaces.
- A 30 KW photovoltaic system on top of the classroom building provides approximately 25% of the project's electricity needs.
- The library and student capture storm water. The library roof is a green roof which features several different landscape species. The student center room replicates native California grassland. Together these two roofs provide 10,000 s.f. of habitat for native birds and insects.
- The site's native, drought tolerant landscaping and drip-irrigation system, combined with waterless urinals, dual-flush toilets and other low-flow fixtures reduce the project's use of potable water by half.
- Outdoor walkways and wood screens on the southeastern side of the classroom building shield the interior from overexposure to sunlight and glare.
- The north-south orientation of the buildings takes advantage of easterly summer winds and the library is recessed into the earth with its roof deflecting westerly winds above the plaza.
- The project team minimized conditioned space by placing stairs and corridors outside the main building shell and designing the student center with a glass wall that opens onto the outdoor amphitheatre. Only the media lab is mechanically cooled. Operable windows, fans and passive turbine ventilators allow 85% of the project to be naturally ventilated and cooled.



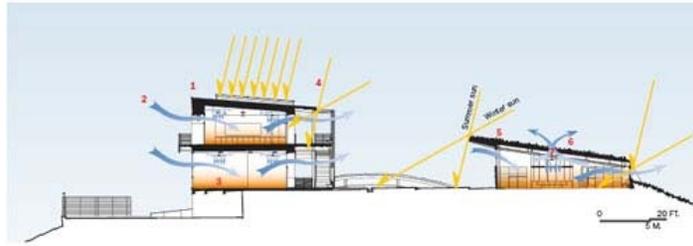
Greensource Magazine: www.greensource.construction.com



SITE PLAN

- 1 Drop-off area
- 2 Plaza
- 3 Classroom building with living roof
- 4 Amphitheater
- 5 Library with living roof
- 6 Student center with living roof





SECTION

- | | |
|-----------------------|--------------------------|
| 1 Photovoltaic panels | 5 Green roof |
| 2 Cross ventilation | 6 Mechanical ventilation |
| 3 Radiant heating | 7 Ceiling fan |
| 4 Summer sun | |

