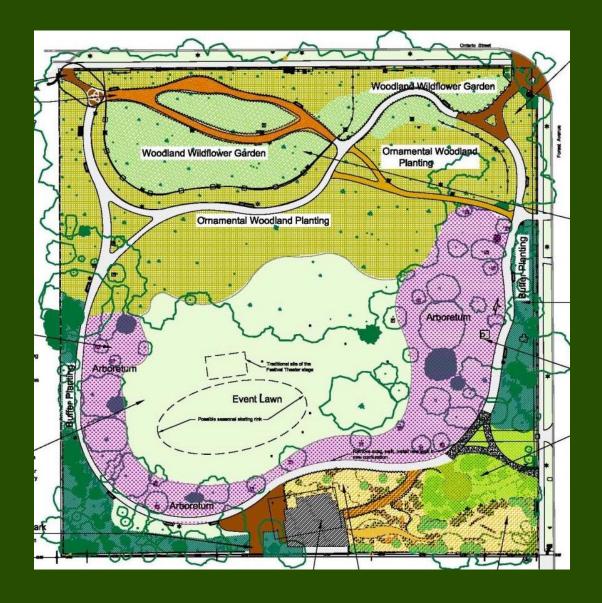




Austin Gardens Environmental Education Center December 18, 2014











Site Plan with Environmental Education Center & Learning Garden





Building Elevation from Park





Floor Plan





Interior view – Assembly Room – engaging with Park





QUESTIONS?

CYLA Design Associates, Inc.
412 Madison
Oak Park, Illinois 60302
P 708 / 524-1484
F 708 / 524-1686
email cyetken@cyladesign.com

website www.cyladesign.com































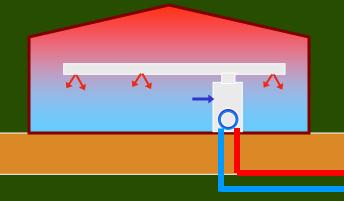






Plantings – diversity & demonstration

Geothermal heat pumps circulate fluid through a sealed underground piping loop where it exchanges energy with the moderate earth temperature and is naturally warmed (or cooled) by the Earth. Geothermal uses only a small amount of energy to capture a large amount of FREE energy from the earth.





Building	Annual Electric Cost (Building Only)	Annual Gas Costs	Total Utility Cost (Building Only)
Anderson Center (Slightly larger than EEC)	\$ 3,679 (33,712 kWh) -Actual utility costs	\$ 3,082 (2,664 Therms) -Actual utility costs	\$ 6,761
Conventional Building Code Compliant Building	\$ 3,536 (Est.) (31,982 kWh)	\$0.00 -No gas-fired equip.	\$ 3,536 (Est.)
Environmental Education Center (No Photo-Voltaic)	\$ 1,939 (17,628 kWh)	\$ 0.00 -No gas-fired equip.	\$ 1,939 (Est.)
Photovoltaic System (Annual Generation)	\$ <2,084> (Est.) (18,857 kWh, Est.)	\$ 0.00	\$ <2,084> (Est.) -Credit up to actual amount used

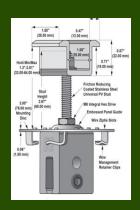
Building Operating Costs Comparison with Existing PDOP Center of Similar Size



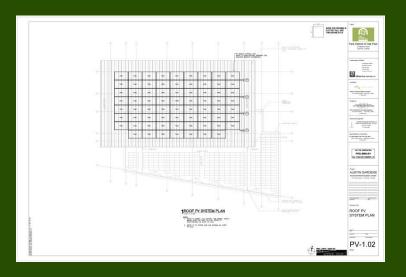
Photovoltaic Array

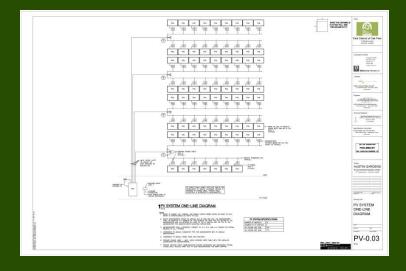
- 18.55 kW System
 70 265W Panels
 Single Panel Micro Inverters
- System Costs
 - Projected Budget: \$95K
 - Contractor Pricing \$70K to \$98K
 - Turnkey Installation
- Grant Funding 80% of System Cost
 - ICECF
 - IL Department of Commerce (DCEO)













Photovoltaic Array

LEED Certification

USGBC Program: LEED 2009 NC

Registration: Currently Registered

Target Level: LEED Platinum (83 points)

Sustainable Design Focus:

- Sites
- Water
- Energy
- Indoor Environmental Quality

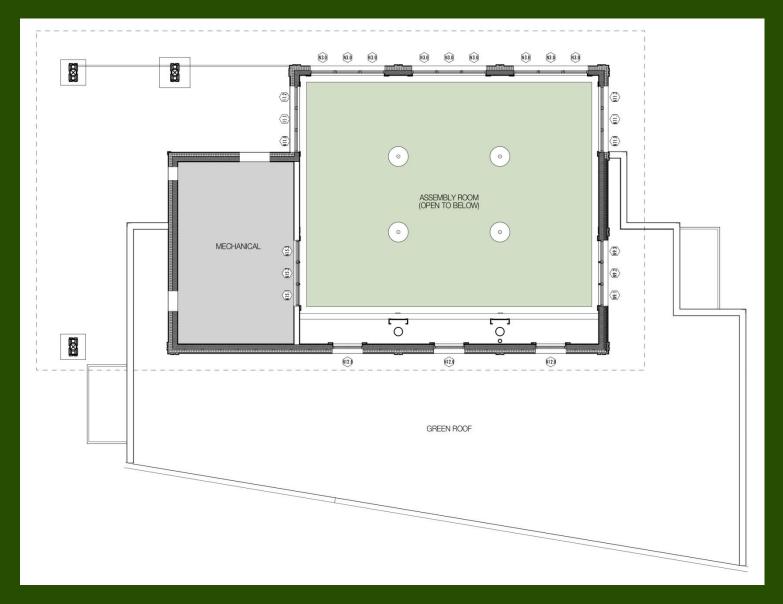
Funding Grant
ICECF – Design/Cx. \$67,178
Geothermal \$8,050

LEED Program



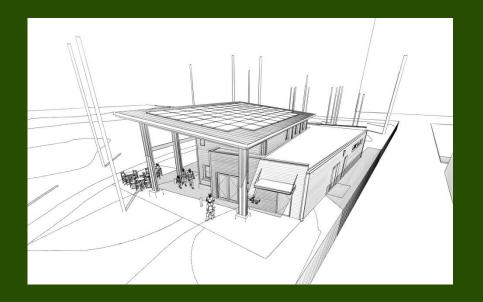
LEED Certification







Clerestory Plan





West & East perspective views

