

statistics

location. Pittsburgh, PA, Schenley Park
function. education, administration, research
occupants. Phipps employees / researchers
size. 24, 350 square foot, 3 stories
cost. \$ 20 million
construction dates. Dec. 2010 - Apr. 2012
delivery method. lump sum with contractor

team



owner. Phipps Conservatory
architect. The Design Alliance
structural. Atlantic Engineering Services
MEP. CJL Engineering
contractor. Turner Construction
landscape. Andropogon Associates
integrated design process required by owner

 **architecture**

sustainability. LEED Platinum
materials. regional, salvaged barn siding, motorized low-e glazing, metal light shelves
Living Building Challenge. + green roof
site. rainwater harvesting, constructed wetland
façade. high thermal mass
net zero. energy & water consumption

structural



substructure. cast-in-place concrete
foundation. 12" concrete wall reinforcement, 30" diameter concrete column reinforcement
superstructure. structural steel
strip & spread footings
frame construction. with composite slab on deck

 **mechanical**

heating & cooling. geothermal ground source
rooftop energy recovery unit. 12,400 cfm VAV with enthalpy wheel, desiccant dehumidification
raised floor distribution. 4,860 cfm open office
 100% passively cooled atrium
ventilating. CO₂ sensors, demand controlled
controls. building management system

lighting / electrical



lights. mainly 4' T8 or T540 direct/indirect high efficiency ecosystem dimming ballast
natural daylighting, occupancy sensors
photovoltaics. 36 kW PV array
vertical access wind turbine
transformer. 75 kV
main distribution panel. 600A

