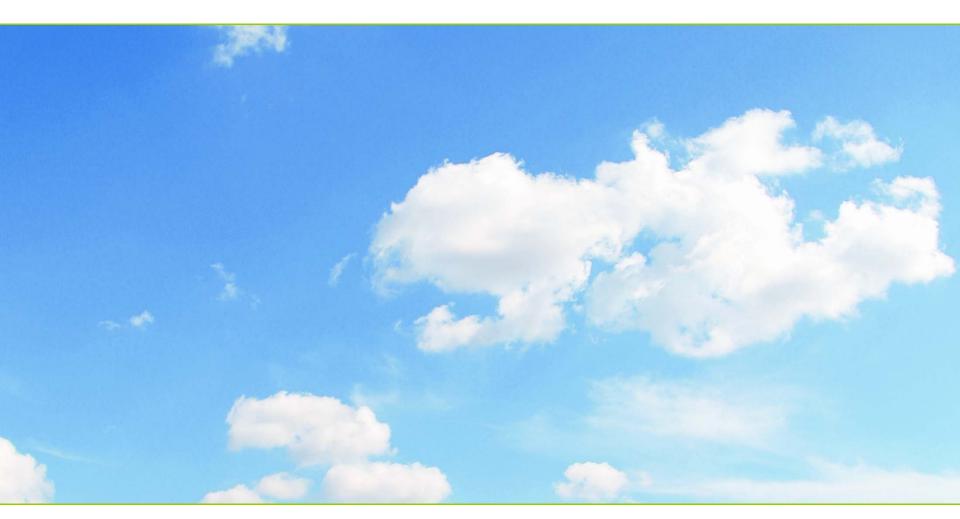
LEED - Base Buildings: New Construction and Core & Shell



Ms. Tove Anderson, AIA, LEED<sup>®</sup>AP Hickok Cole Architects

Hickok Cole



### Two Sites - One Common Theme



**1050 K Street** 143,000 sf Downtown Washington, DC LEED Gold

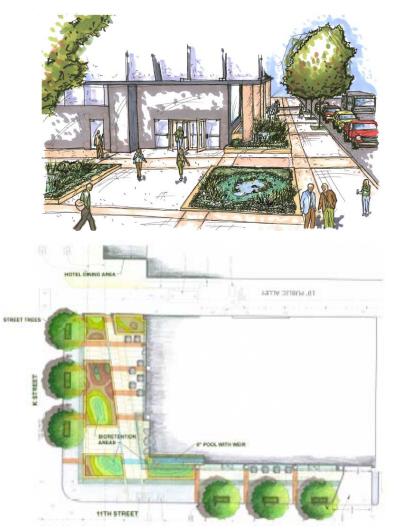
Developed by Lenkin Company & The Tower Companies **Commonwealth Centre, Building 2** 165,000 sf Fairfax, Virginia LEED Silver

Developed by BPG Development Company

Location and stormwater management Roofs, orientation and energy efficiency Base building decisions affect interior choices Nothing operates in isolation



## Location, Location, Location

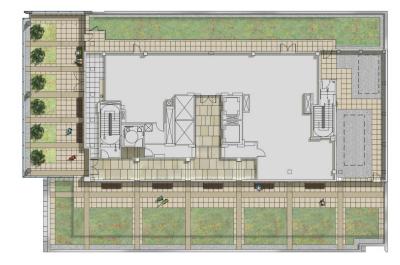




**Commonwealth Centre** 97.60 acre complex, 7.54 acre lot grass swales, decentralized storm drainage system, biorention ponds

**1050 K Street** 50' setback, 0.31 acre lot biorention plantings, cistern

sketches by Timmons Group

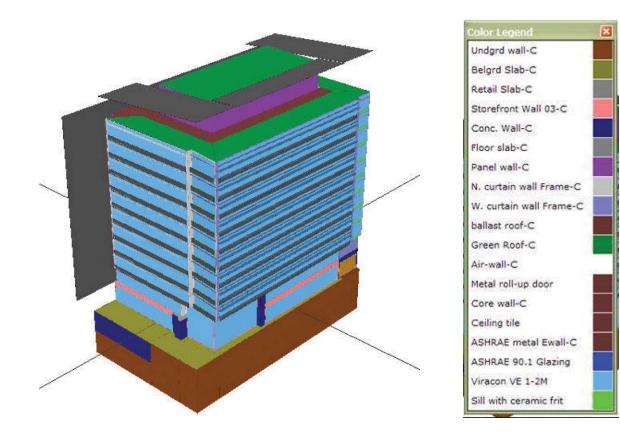






- Heat island effect
- Alternatives: Reflective roof Green roof
- Cost factors
- Amenity base

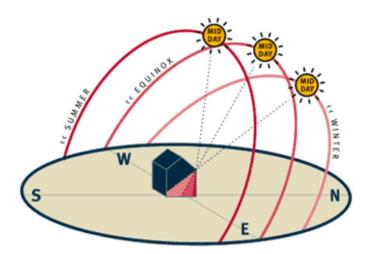
### America's Next Top Model

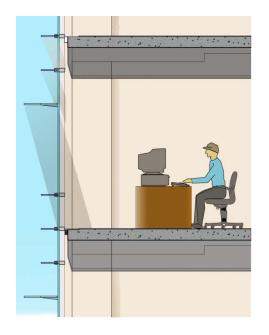


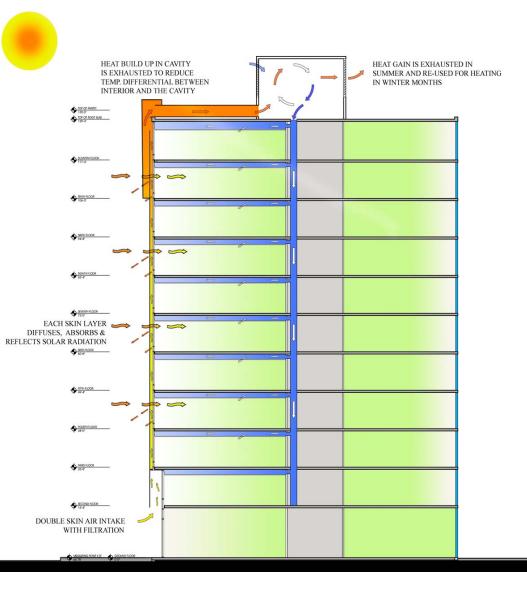
# **Model Rendering: Northwest**

Energy model provided by EMO Energy Solutions

#### Here Comes the Sun







Indoor environmental quality

90% of people's time is spent indoors

Strategies to improve built environment

- Daylighting
- Views to outdoors
- High end filters
- Low VOC materials
- Controllability of building systems

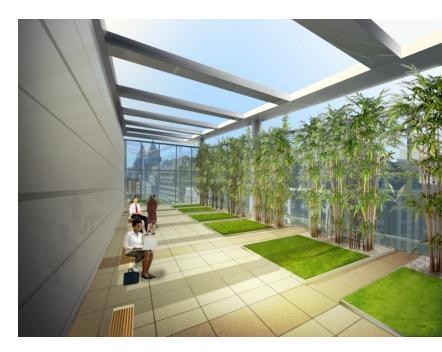


## Synergies

Multiple benefits from one tool:

Building skin Lighting selection Daylighting Green roof





Green roof



Reduced heat island Stormwater management Cost

Marketability

Social responsibility

