



UConn LEEDs the Way on Green Building

Case Study for the NCAA's First LEED® Athletic Facilities

Energy Savings



Infrared Radiant Heating



Energy / Heat Recovery Unit

- 35% Energy Savings Over 1999 Industry (ASHRAE) Standard (saves \$35,000 – \$40,000 per year)
- Occupancy / Demand Controlled Ventilation

Energy Savings



Compact Fluorescent Lighting



Low-Emissive Window Treatment

- Energy-Efficient Lighting and Occupancy Sensors
- Improved Building Envelope (Higher Insulation Levels)
- Window Glazing – Increased Natural Lighting, Reduced Solar Heat Gain and Lower Building Heat Loss

Water Conservation



Dual-Flush Toilet & Low-Flow Showers



Drought -Tolerant Plants

- 35% Water Savings Over EPA Standards:
 - Low-Flow Showerheads, Urinals & Faucets, Dual-Flush Toilets, Water-Efficient, Front-Loading Laundry Machines
- No Irrigation – Native & Adaptive Landscaping

Sustainable Building Materials



***Woodwork - Recycled Strawboard,
Locally-Manufactured***



“Green Label” Carpet



***Recycled Acoustical
Ceiling Tile***

- 30%+ Made from Recycled Content
- 25% Manufactured Locally
- Low-Emitting Carpet, Paints, Adhesives & Sealants

Sustainable Building Features



***Low VOC Paints and Entry Walk-Off Mats
& Grills Improve Indoor Air Quality***



“Rapidly Renewable” & Durable Dining Rm. Floor

***Lockers:
Recycled
Content and
Locally-Made***

***Green-Label
Carpet***



Recycling Report



Structural Steel at Shenkman 90% Recycled



On-Site Dumpsters for Recyclables

- Structural Steel, Roofs, Decks, Stairs ➔ 45-90% Recycled Content
- 89% of Construction & Demolition Debris Recycled
 - 4100+ Tons of Wood, Concrete, Metal, Cardboard, Asphalt ...

Sustainable Site Issues



Southern Bio-Retention Swale



Northern Rain Garden

- Rain Gardens & Bio-Retention Swales:
 - Retain Site Stormwater Runoff – Minimize Downstream Impacts
 - Remove Stormwater Pollutants Naturally Through Soil and Plants
- Integrated Pest Management (IPM) Used for Grounds Maintenance

Sustainable Site Issues



Full Cut-Off Exterior Lighting

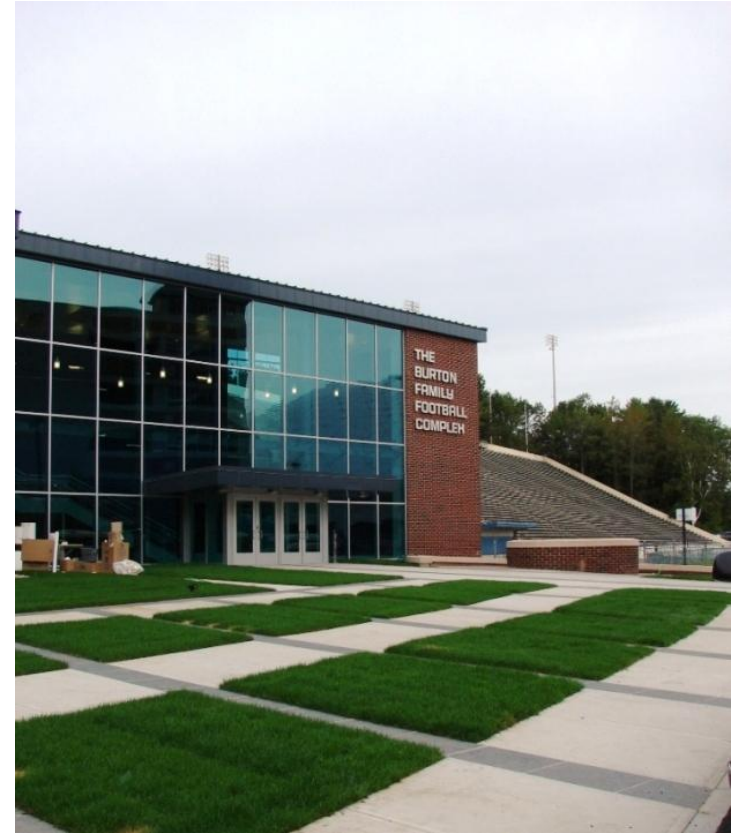
Stormwater Sedimentation Basin

- Reduced Exterior Light Pollution – “Full Cut-Off” Lighting
- Erosion & Sedimentation Controls During Construction

Sustainable Site Issues



GrassPave Grid Will Stabilize Un-Paved Delivery Entrance



Reduced “Heat Island” Effect in Plaza

- Reduced “Heat-Island” Effect & Less Impervious Surface
 - Light-Colored Pavement, GrassPave
- 50+% of Entire Site Preserved as Open Space

LEED® Certification Process



Green Building Team Meets to Prepare Documentation for LEED Certification

- Third-Party Building Commissioning Done - September 2006
- LEED Certification Package Sent to USGBC for Review - October '06
- LEED Cert. – December 2006

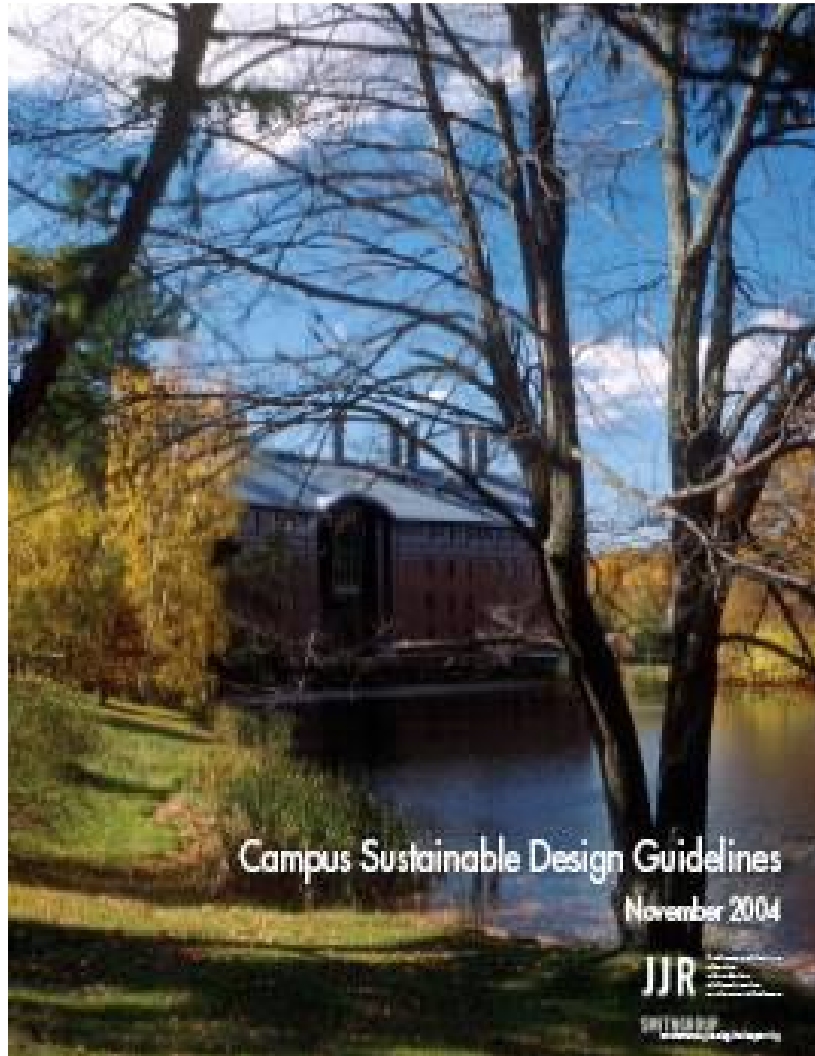


***Athletes Volunteer at Mt. Sneaker 2005:
Helping Recycle Sneakers into Synthetic Turf***



Smart & Sustainable Growth

Next Steps



- Continue to Apply UConn Sustainable Design Guidelines to All Construction Projects
- Seize Opportunities for Low-Impact Design
- Next Likely LEED Project → Arjona / Monteith Classroom Building Replacement (CLAS)