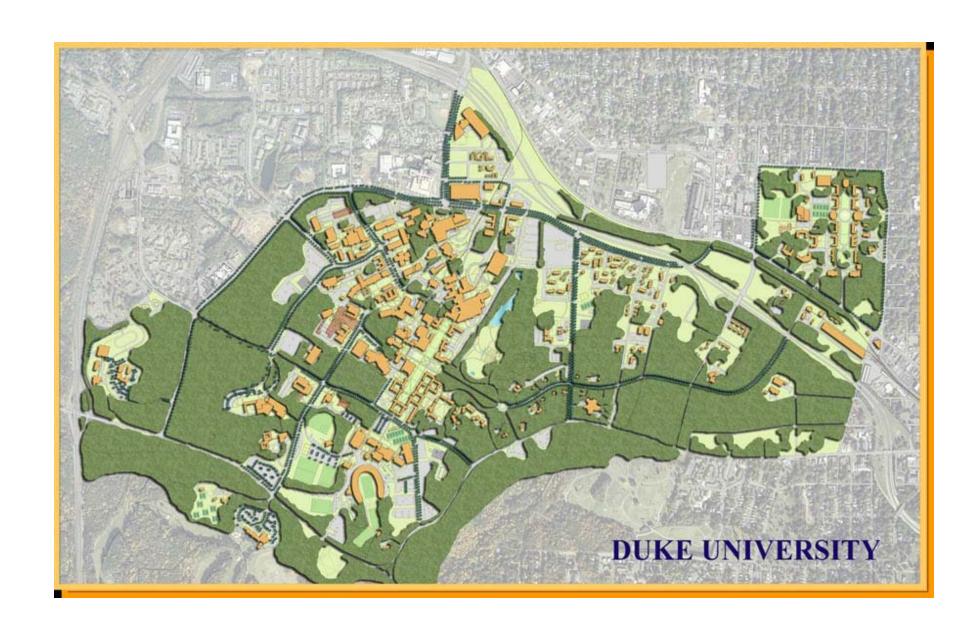
Duke University Preserving Campus Historic Landscape & Natural Resources

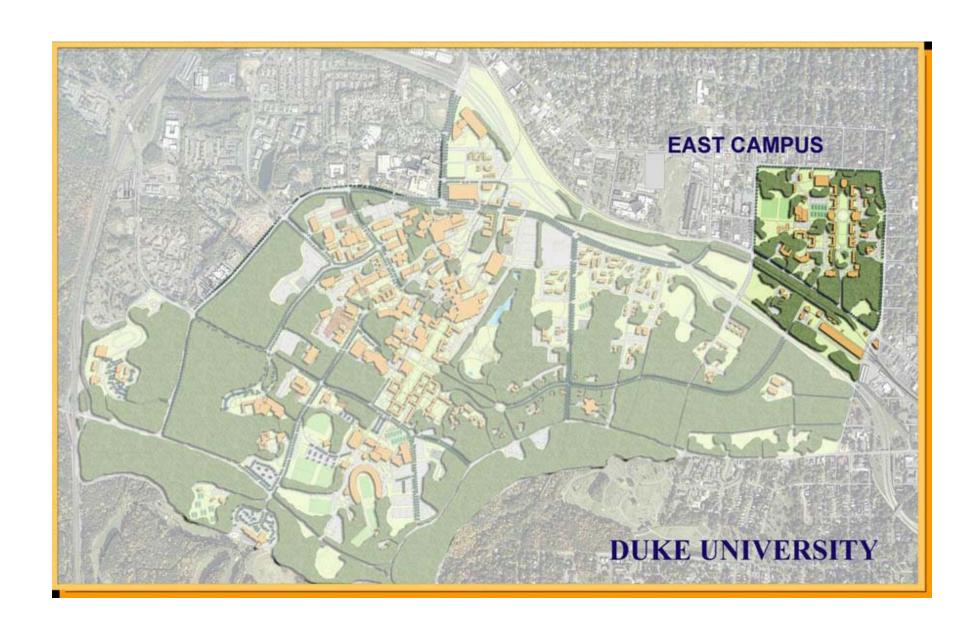
John Pearce University Architect

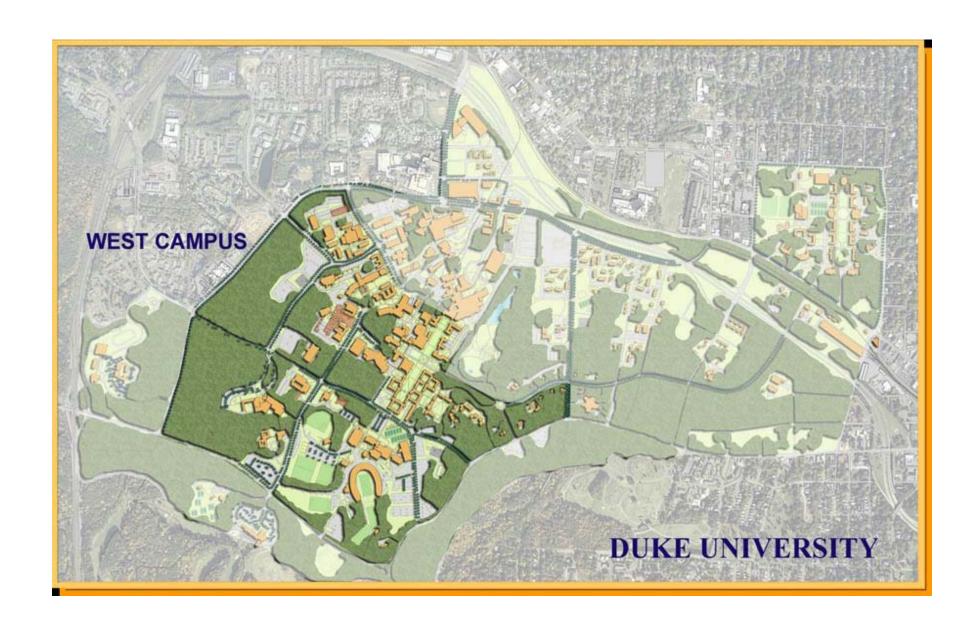
Omlsted Brothers of Boston

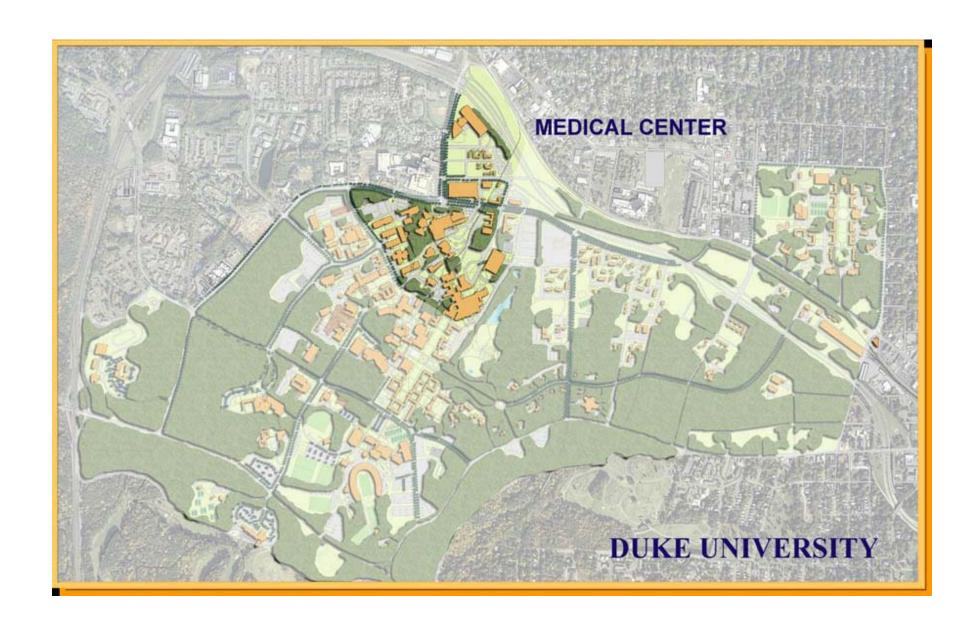
Duke Forest

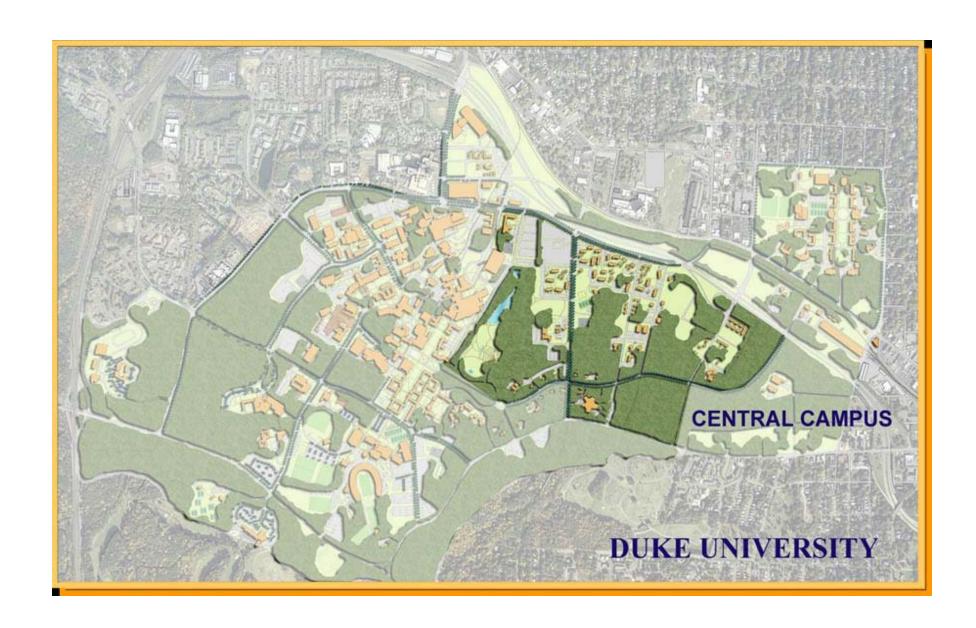
Metrics for a Sustainable Campus

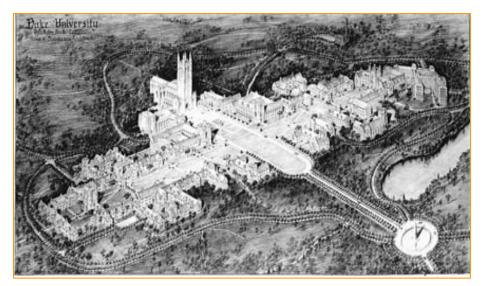


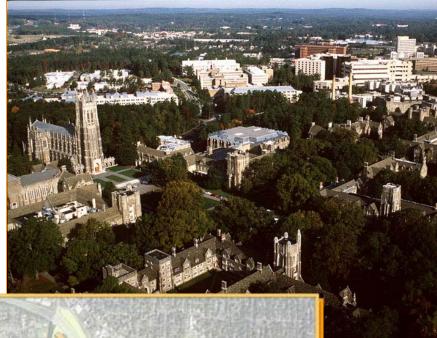




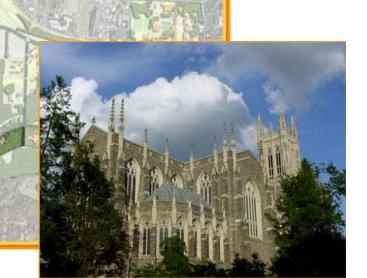


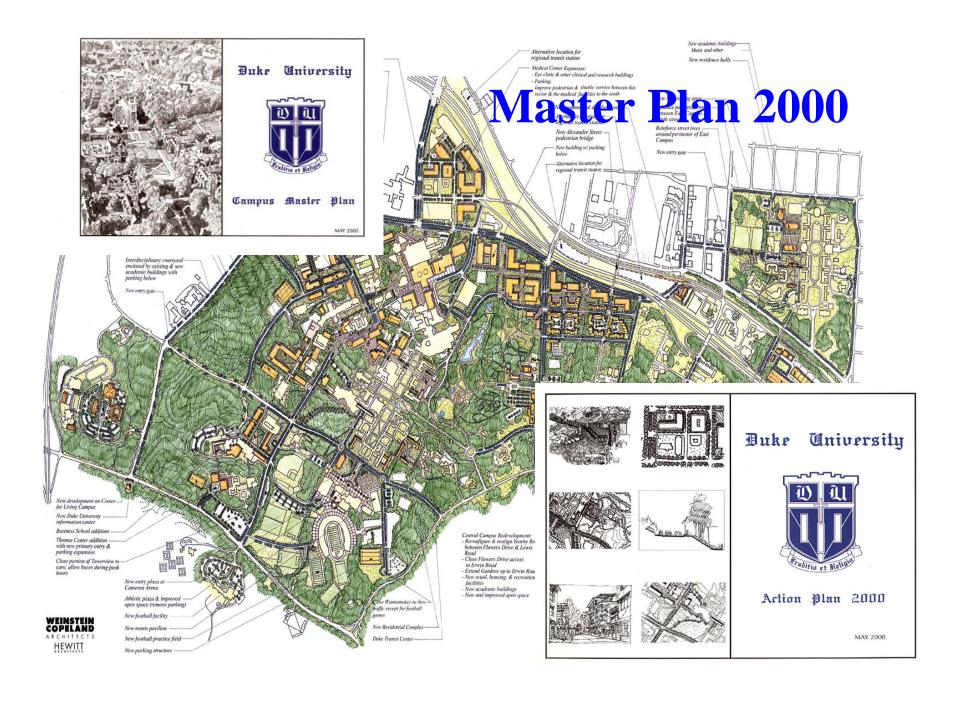






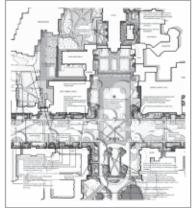




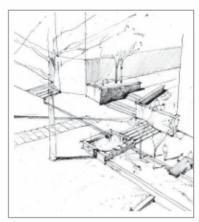














Duke University



Action Plan 2006

MAY 2006

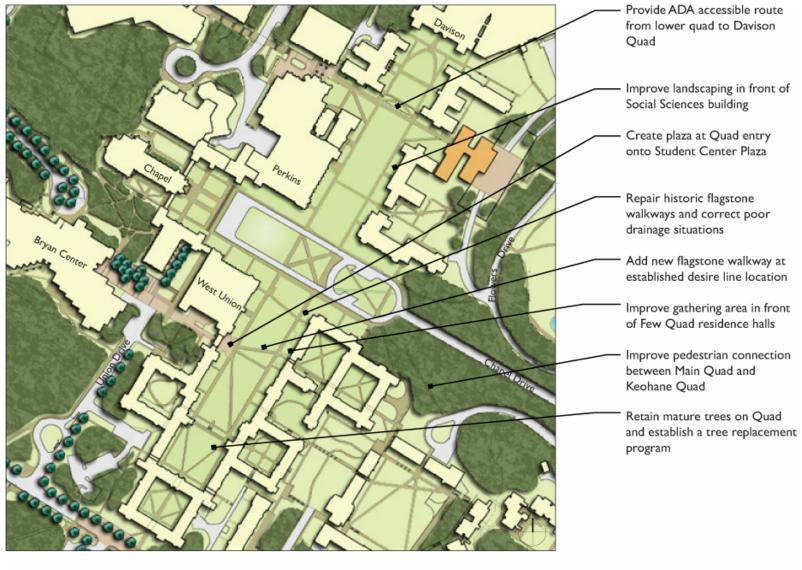
Table of Contents

Introduction	3
Master Plan Oversight Committee	5
Principles and Goals for the Duke Campus	6
Duke University Campus Master Plan 2000	7
Campus Master Plan 2000 Projects	8
Executive Summary	10
Illustrative Master Plan Update	14
Action Plan 2006 Project List	16
Chapel/West Quad Precinct	19
Transportation Center	22
West Quad Landscape Improvements	24
Union Drive Streetscape	26
Law/Business Precinct	29
Fuqua Classroom Addition	32
Law School: Star Atrium and Beber Sculpture Garden	34
Sciences Precinct	37
Nicholas School of the Environment /	
Towerview/Science Drive Intersection	40
PG-V	42
Biomedical Research Precinct	45
Telcom Building / Telcom Drive Improvements	48
North Building Replacement	50
Research Drive Streetscape	52
Recreation/Athletics Precinct	55
Center for Athletic Excellence	58
Cameron Plaza	60
Central Campus Precinct	63
Central Campus Master Plan	66
Central Campus Phase I	68
Central Campus Phase I Site	70

East Campus Precinct 73 East Campus - Ninth Street Connection / 76 Williams Field Improvements East Quad Landscape Design Guidelines 78 East Campus Building Improvements 80 Medical Center Precinct 83 Hospital Addition for Surgery 86 Duke Medicine Framework Plan for Facility Growth 88 Campus-Wide Initiatives 93 Bicycle Circulation Plan 94 96 Pedestrian Circulation Plan

Landscape projects

4 Action Plan 2006



West Quad Landscape Improvements

Chapel/West Quad Precinct 25

West Quad Landscape Improvements

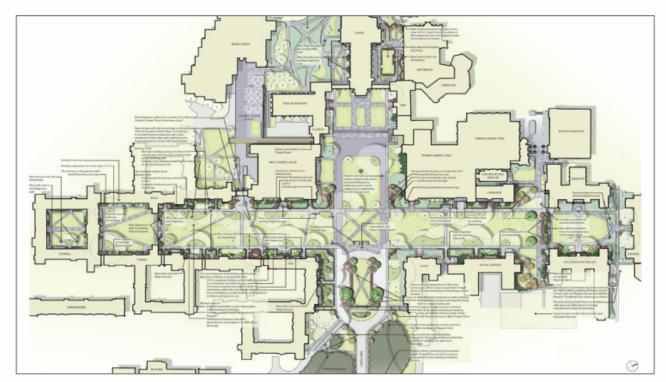
Project Description

A master landscape plan and site design guidelines were completed for the West Campus Quad in 2005. The goal was to provide the framework for a series of landscaping projects that would transform the quality of the quad landscape. Several of these projects have been completed, including the Chapel Drive entry planting, landscape improvements to the Chapel Memorial Garden and the Pedestrianway landscape.

Considerations

 Provide ADA access to Davison Quad, fitting within the campus context in terms of material, geometry and scale.

- · Establish and implement site furniture standards.
- Improve the landscape and hardscape in front of the residence halls in Few Quad. Consider established desire lines, drainage issues, and the presence of the mature oaks in the design.
- Promote through the Administration the creation of an Open Space Management Program for the Quad in order to manage how the space is used.
- Improve the pedestrian path system connecting Keohane Quad and Chapel Drive in front of the Allen Building. Simplify the path layouts and replace steps, handrails and paving.



Action Plan 2006



Wetlands Project

Duke Forest - 7000 Acres

Education
Forest Environment
Management
Recreation

Research

Since 1931 the Duke Forest has provided research opportunities for Duke University faculty and students in the fields of forestry, botany, zoology and environmental science. Today the Forest is also utilized by local universities and schools - plus many other universities and organizations nationwide - to study natural resource and environmental science issues. These uses include both short-term and long-term research projects which span such diverse topics as plant ecology, invertebrate zoology, forest economics and global climate change. During the 1930s and 40s, Duke scientists such as Drs. Korstian, Coile, Oosting, and Billings pioneered research in the fields of forestry and ecology with their work in Duke Forest. These early researchers were meticulous record keepers who permanently marked their sample areas. Data from their inventories and permanent sample plots continue to provide a long-term scientific record that illustrates changes in the forest ecosystem. The availability of this comprehensive database, along with the Duke Forest collection of maps and silvicultural records, have established the Forest as an ideal site for long-term ecological research. Duke Forest researchers continue to make important contributions to the natural sciences. Funding for research projects in the Forest currently totals nearly \$7 million annually.

The Wetlands Project:

Phase I: Sandy Creek Tributary Stream Restoration Project

Provide surveying, planning, design and construction services to restore a portion of the Sandy Creek tributary from High 751 for approximately 1,750 feet. Rootwads and log vanes from existing trees were used to help slow down the slow down the speed of the stream. This project is in conjunction with the proposed Wetlands project adjacent to the Duke Golf Course. This project is to improve storm water run-off conditions from the City of Durham and the Duke Campus, as well as improve stream water quality on Sandy Creek in Durham, NC. This creek flows directly into Jordan Lake Reservoir, a major drinking water supply for the region. Thus, this project is vital to the improvement of the water quality and storm run-off in the region.

Phase II: Duke Wetlands Dam Project. The project site is near the popular Al Buehler Cross Country Trail south of Duke's West Campus and NC 751.

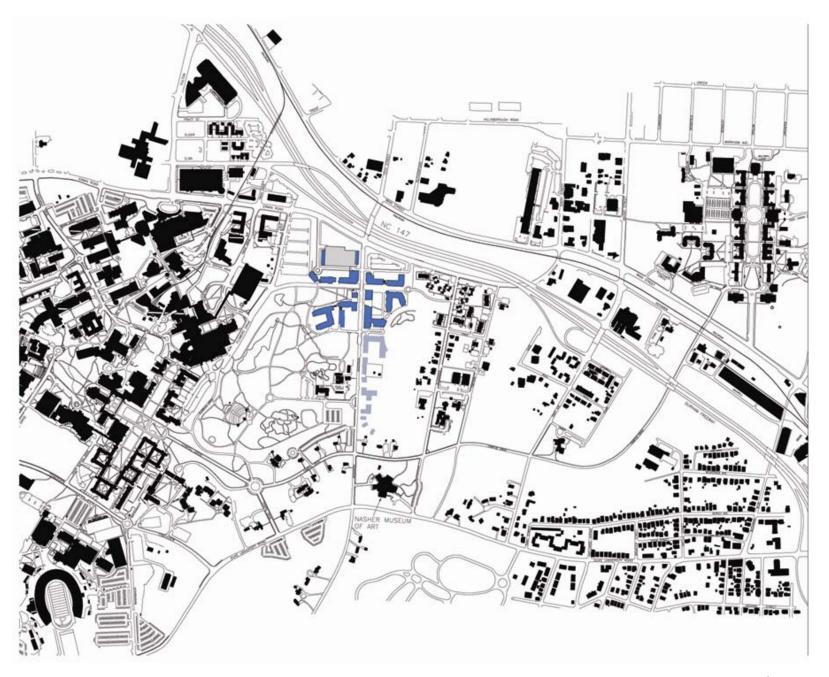
Construction of a 19 feet high earthen embankment dam with a concrete spillway that will be used to help restore a bottomland hardwood wetland, create a lake to control stormwater run-off and create a research and teaching outdoor lab for the Nicholas School of the Environment and the Pratt School of Engineering.

Phase III: Stormwater Treatment

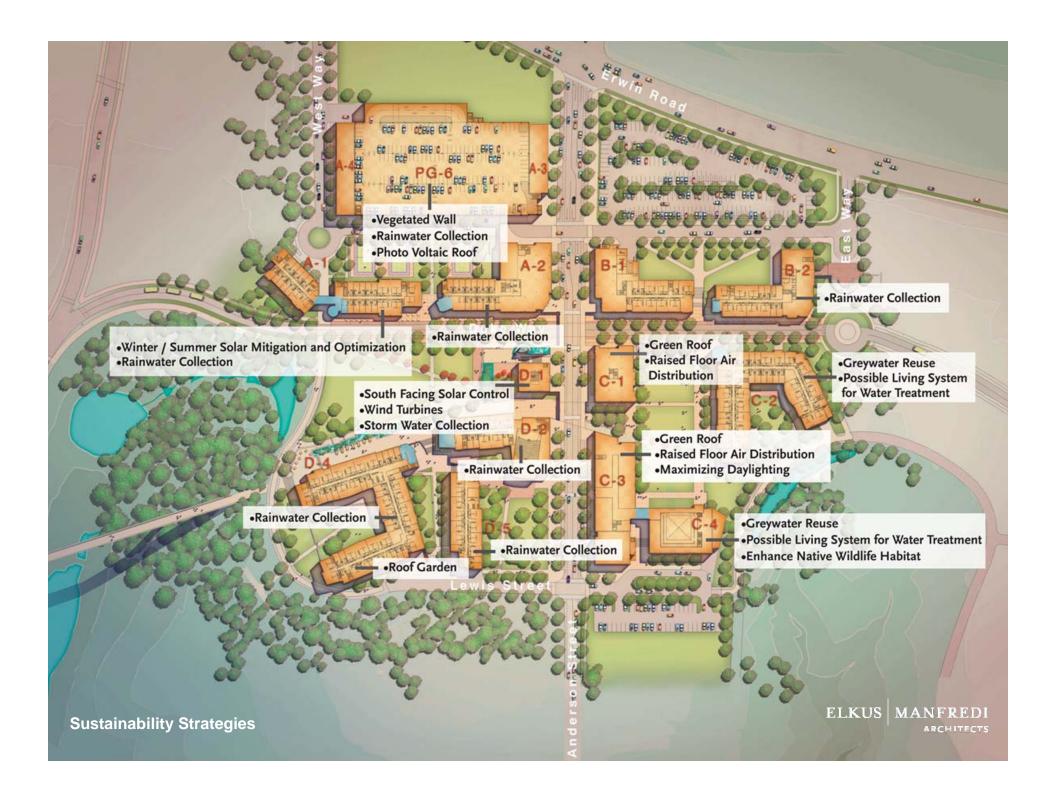
Design and Construction of restore the stream coming into the main channel from the pipe under 751 and an off line step wetland put in place to reduce the nutrient pollution before it hits the main channel of sandy creek. The Wetland treatment cell system will be constructed to intercept the flow of the unnamed tributary to Sandy Creek and culvert that is draining part of the central Duke campus. The wetland will be terraced to increase retention time of overbank flow from the stream. The cross-section will be based on a lower stage than bankfull in order to increase the quantity and frequency of overbank flow that accesses the wetland areas.













ELKUS MANFREDI
ARCHITECTS



Central Campus Sustainability

