NAME: BALTIMORE INSTITUTE FOR ECOLOGICAL ECONOMICS

LOCATION: BALTIMORE, MD

CATEGORY: GRADUATE SUBMISSION - STUDIO PROJECT

PROJECT SYNOPSIS:

COURSE GOALS:

Comprehensive Building and Site Design: Course content bridges the gap between design and technology, between practice and education, in a studio setting. Explorations include the integration of conceptual and technical aspects of architectural form and assembly, highlighting the ways in which multiple layers of a building design are developed, coordinated and resolved.

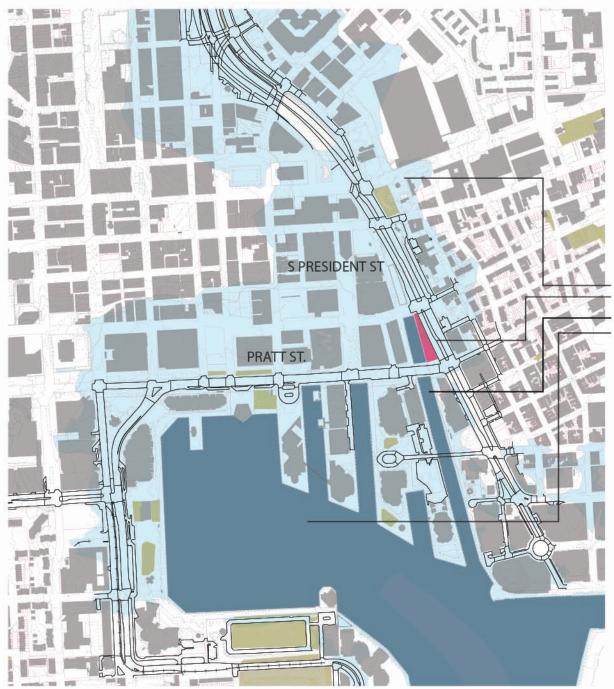
PROJECT BRIEF:

Institute for Ecological Economics (IEE) – (a.k.a. - Environmental Research Office): the building as a model for future development; making ecological systems and processes visible/transparent; a "living building, like a tree; minimize the footprint; flexibility in design for future changes and multiple uses; food production on site (where possible); clustering offices around meeting and social areas; an ecological design aesthetic; harnessing ambient energies from site – wind, sun, water; and closing cycles to eliminate waste. Since the IEE scientists frequently study watersheds, wetlands and water processes, they would like to demonstrate the extent to which building can respond to the natural hydrology of a site and nearby watershed features. For the most constrained sites, using the buildings potential living "green" roof as a man-made watershed could be the subject of study and experimentation.

Building Size: 17,000sq ft

STUDENT DESIGN AGENDA:

As a team, we wanted our design to accomplish two major goals: First, to create a net-zero water filtration system to service the building. Second, to have that water filtration system extend into the urban landscape of our site to engage the public in the form of a wetland terrace park. We see our project solution as more than just a building but the designed intersection between public & private, research & education, collection & filtration, and building & landscape.

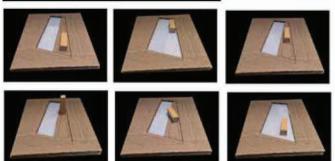


Site Areial

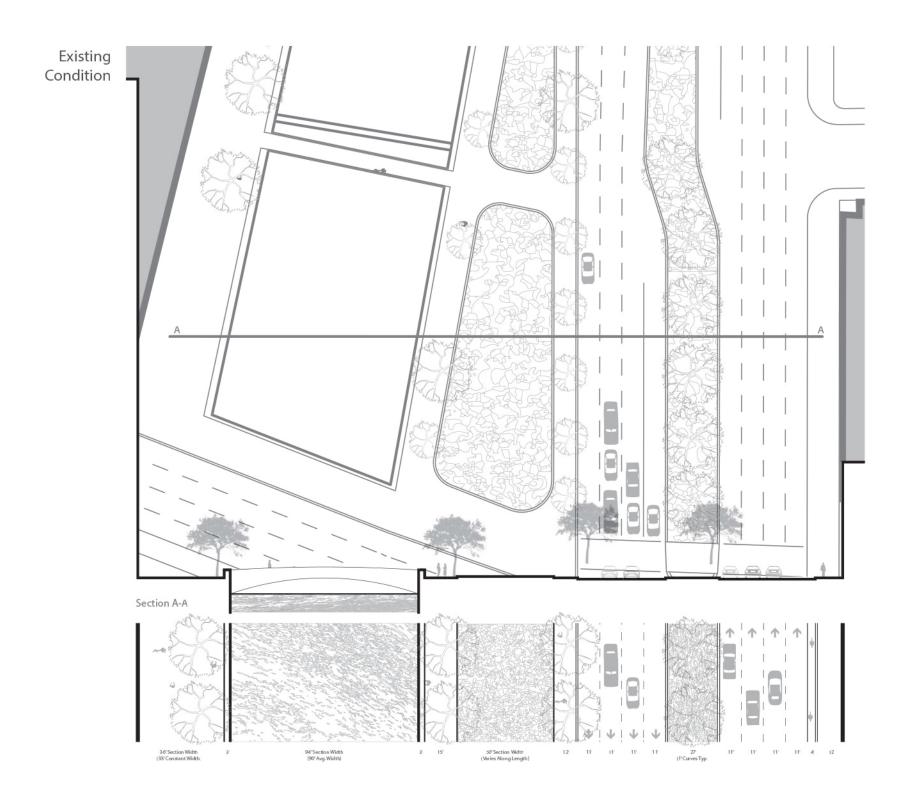
Low Topography Hydro Zone Project Site Jones Falls Water Outlet Baltimore Harbor

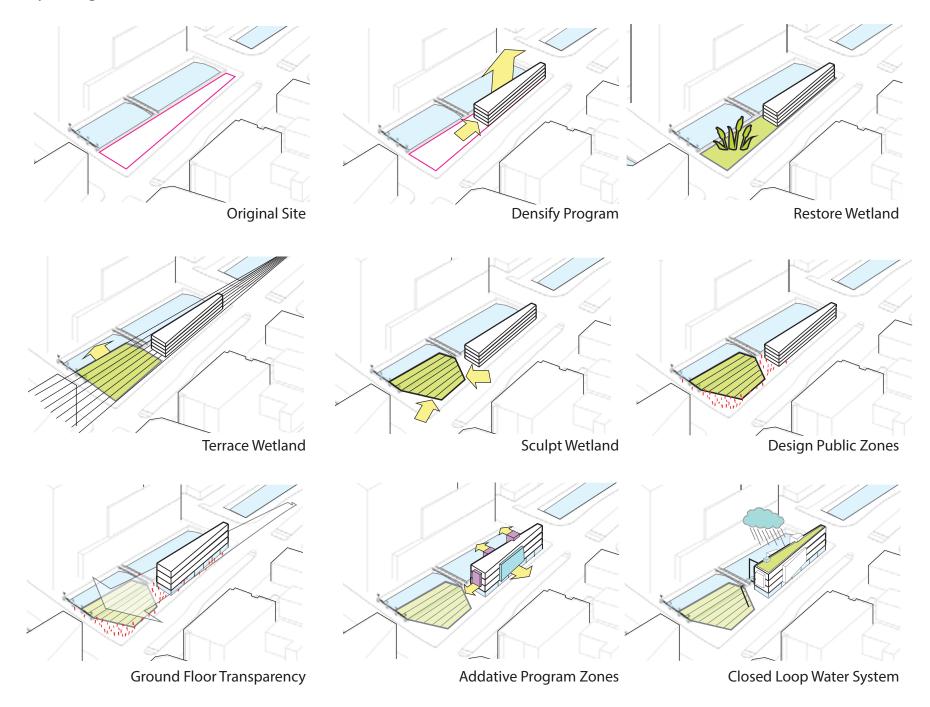


Canal Engagement Massing Study

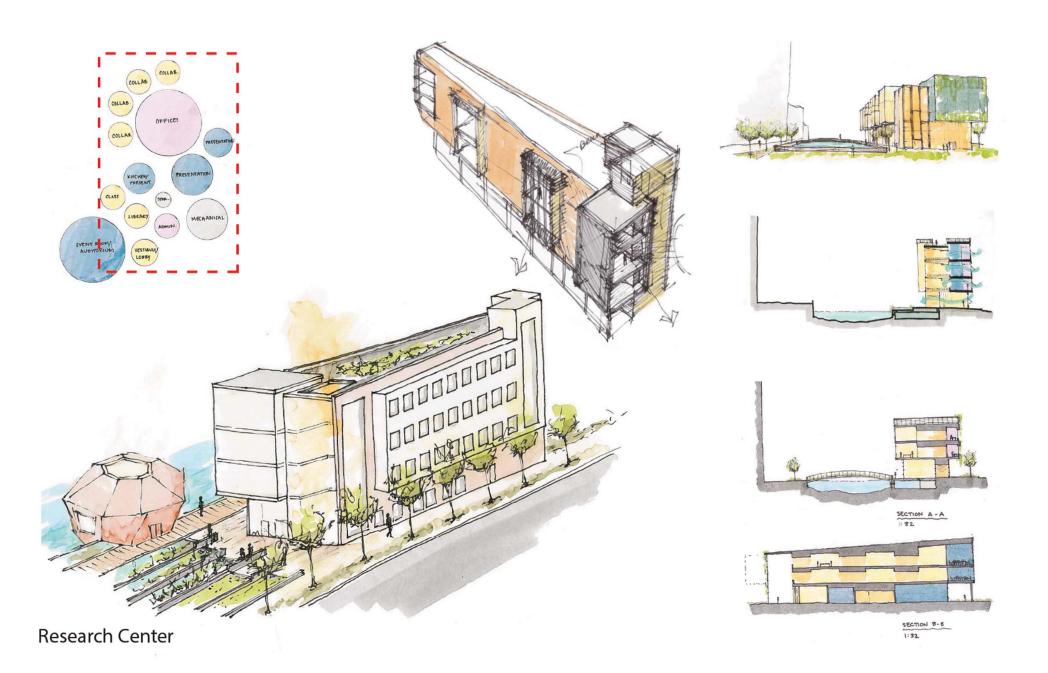


Hydro & Vehicular Flow - Site Map



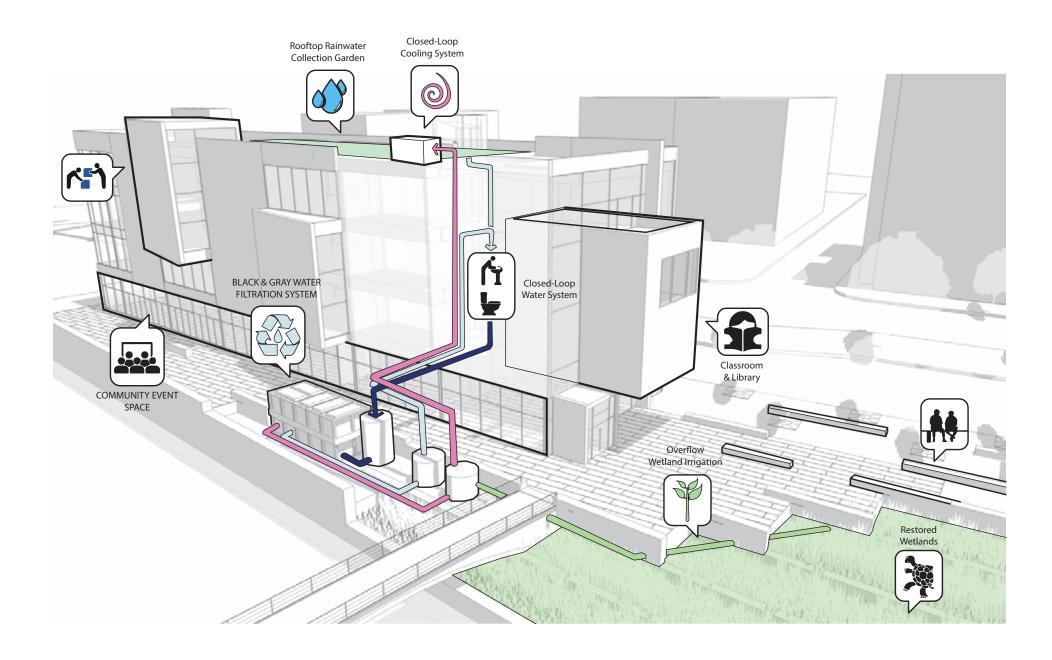


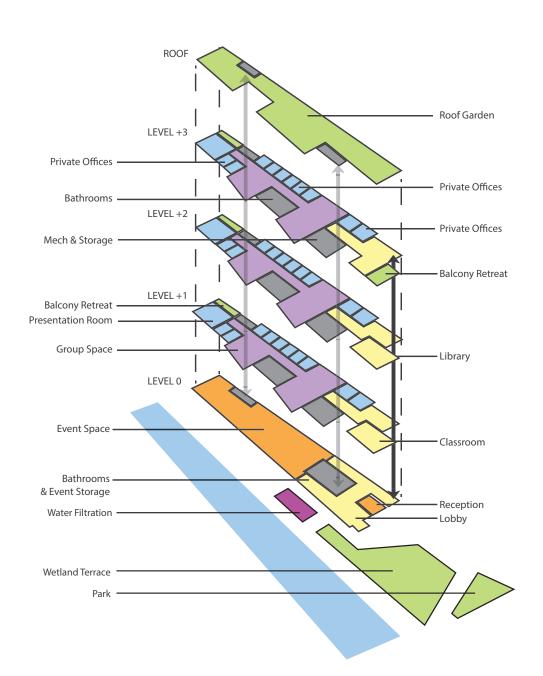












Floor Plans

