



## 2010 Lower Cape Fear Stewardship Development Award Winners

### Outstanding Stewardship

#### **Blue Heron Ranch** – Pender County

Blue Heron Ranch is a 100 acre low density development bordering on Moores Creek in Western Pender County. The project is divided into 16 buildable lots of approximately 5 acres each with an additional 20 acres of conservation land. With a large amount of wetland and riparian area on the site, the developers and land owners endeavored to maintain the pristine quality of the area by disturbing as little of the land as possible. Restrictive covenants on the property limit structures to no more than 3500 heated square feet with the area cleared for structures not to exceed 500 square feet over structure footprint. Covenants also strictly regulate the removal of trees on site with allowing only those trees six inches or less in diameter or those whose removal is necessary for placement of primary residence. A variance was granted for the existing and historical access road into the project to allow the developers to keep the road in its preserved state and not impact the surrounding environment with unnecessary improvements.

#### **James E. L. Wade Park** – Wilmington

Wade Park is a 17-acre dual purpose park incorporating watershed protection and recreational use in one project. Formerly an industrial site, the land was acquired with funding provided by the NC Clean Water Management Trust Fund to construct a 12 acre stormwater wetland for water quality improvement in Hewletts Creek. The project diverted two major stormwater outfalls from the surrounding neighborhoods into the newly constructed wetland in an effort to remove pollutants before discharge back into the creek. This wetland now treats approximately 590 acres or 10% of the entire Hewletts Creek Watershed. Additionally the area now serves as prime habitat for native and migratory birds, animals and plants. Park amenities at the site include a .5 mile path around the wetland with observation boardwalk, picnic shelter, restrooms, playground and interpretive signage throughout. Pervious pavement was utilized in the parking area and around the picnic shelter and dog waste stations were installed throughout the project to further protect water quality.

## **Significant Achievement**

### **Midori on 29<sup>th</sup> – Wilmington**

Located in Wilmington's Beaumont neighborhood, Midori on 29<sup>th</sup> is a six home infill development situated on a 0.64 acre site. Low impact site improvements include small building footprints, pervious sidewalks and driveways, rain barrels, and site tree preservation. Green building materials and methods were implemented throughout the construction of the homes. Each home is climate controlled by highly efficient ductless heat pumps and insulated with superior spray foam insulation. Standard interior features to be used include bamboo flooring, low VOC paint, Energy Star appliances and natural fiber carpeting. The homes are intended to qualify for an Energy Star quality rating as well as a silver rating from the N.C. Healthy Built Homes program.

## **Special Recognition**

### **New Hanover Regional Medical Center, Betty Cameron Women's and Children's Hospital Green Roof – Wilmington**

This project entails the construction of a green roof on a portion of the new Betty Cameron Women and Children's addition at New Hanover Regional Medical Center in Wilmington. The over 1,000 s.f. vegetated roof consists of an impermeable membrane with a heat treated crushed slate media which facilitates the large number of various plantings. Because of the porous nature of the media each square foot is capable of absorbing two gallons of rain water which necessitates minimal irrigation and significantly reduces stormwater runoff. The green roof also reduces heating and cooling loads on the building by adding mass and thermal resistance value and by evaporative cooling.