



Lower Cape Fear Stewardship Development Program

APPLICATION FORM

PLEASE COMPLETE THE FOLLOWING

Name of Project: _____ Location: _____

Developer/Owner: _____

Contact Person: _____ Relation to Project: _____

Address: _____

Phone: _____ E-mail address: _____

Beginning Date of Construction: _____ Construction Completion Date: _____

Please check the box(es) that best describe the type of project/ development:

- Commercial/Industrial
- Public (parks, schools, government facilities, etc.)
- Residential Subdivision (not individual single family sites)

Please submit one (1) full size, full color paper copy, and one (1) digital copy on CD of your complete application and all supporting materials (maps, site plans, photos, videos). All sheets must fit into a 8.5 X 11 folder (may be folded). A PDF file is suitable in lieu of CDs as long as the PDF file is of a small enough size that it is suitable for e-mail Please do not submit marketing information.

Application Checklist: Please submit:

- \$25 APPLICATION FEE**
- Vicinity map with travel directions
- AERIAL PHOTOGRAPH(S)**
- PROJECT DESCRIPTION:** One page written description of project
- SITE PLAN:** One detailed, full-size scaled site plan w/ all existing & proposed land alteration, building types & infrastructure
- SITE INVENTORY MAP:** Predevelopment site conditions Show wetlands, wildlife corridors/natural areas, floodplain boundaries, historical sites, etc .
- APPLICATION NARRATIVE:** Response to Criteria 1 through 10, addressing each NOTE: If a category is not applicable to your project, please indicate so and explain why

COMPLETE APPLICATION SUBMITTAL Sign below indicating agreement to allow access to the site, to submit to periodic spot checks without notice to validate the project continues to meet the terms of the award, and to return any award and forfeit all benefits if it is found by the Stewardship Development Governing Council that the subject property failed to maintain the level, nature, and quality development represented in the application

Applicant Signature

Applications Accepted Anytime
 September 18- Application deadline
 October – November- Judging
 February- Awards Recognition

Send Completed Application and Attachments To:

LCF Stewardship Development Program
 C/O New Hanover Soil & Water Conservation District
 230 Government Center Drive, Suite 100, Wilmington, NC
 28403/ Phone: 910-798-6032 Fax: 910-798-6049

Date

For office use only:
 Date Received: _____
 Received by: _____
 Qualified: _____

Project Name

Narrative

Please respond completely to each of the questions or statements below. **Use additional sheets as needed to fully describe the project** and provide quality input

Please include a synopsis addressing each category, if applicable

The following criteria are intended to serve as guidelines only It is not necessary for applications to meet all of the criteria and not all categories will apply to most projects Check the box(es) to identify the criteria met by the project

Applications will be evaluated on how well the development plan and site inventory have addressed:

- | | |
|--|--|
| 1) Site Inventory & Development Plan | 6) Vegetation Protection/Enhancement |
| 2) Water Quality Protection | 7) Natural Project Amenities |
| 3) Green Building | 8) Long-term Management and Maintenance |
| 4) Wetland Riparian Preservation/Restoration | 9) Community Outreach/Education |
| 5) Habitat Protection/Improvement | 10) Re-use/Revitalization of Existing Site |

Project Criteria #1: Site Inventory and Development Plan

Site Inventory

- Identify soil classes for water runoff infiltration
- Evaluate presence of wetlands (include on site plan if present)
- Investigate the presence of floodplains, stream beds and riparian zones to design surface water management systems
- Delineate topography and current surface drainage patterns and features
- Evaluate the ground water systems
- Conduct a wildlife survey, unique habitat inventory, native vegetation, and tree species inventory
- Identify cultural/historical resources on site plan, if present
- Identify public infrastructure, such as public transit, road, and street stubs from existing/proposed adjacent development, schools, etc.

Development Plan

Please provide a description to demonstrate that:

- the site inventory was used in the development plan;
- the project was designed in careful consideration of natural features and constraints
- efforts were made to respond to the need for connectivity and multi-modal transportation by providing bus stops, connected bicycle/walking trails and pedestrian/bike access between neighborhoods, shopping facilities and schools in the area
- Note any extraordinary efforts made to maintain the natural character of the site

Project Criteria #2: Water Quality Protection

Construction Impacts / Erosion Control and Sediment Reduction

- Limit initial site grading to driveways and streets
- Maintain natural drainage patterns and incorporate into stormwater plan to the extent feasible
- Minimize the amount of impervious roadway and parking surface
- Prepare and follow site and grading plans to minimize filling, cutting and areas of soil compaction
- Reserve HSG Type A & B soils in-situ on the site, and utilize those soils for infiltration of runoff

Stormwater Management

For Streets:

- Install minimum required street width (as the maximum)
- Minimize cul-de-sac radii, use “doughnut” cul-de-sacs, or other alternatives, such as “T’s”
- Use shared driveways with grassy strip design
- Utilize pervious paving materials for low flow traffic areas, driveways, and walkways

For Sidewalks:

- Install sidewalks on one side of street only where safety permits.
- Install sidewalks of minimum allowed width
- If possible, utilize pervious paving materials or other BMPs to reduce runoff from sidewalks and paths

For Buildings:

- Utilize multiple story design for houses and buildings
- Provide parking areas under buildings

For Stormwater Drainage Systems:

- Avoid use of curb and gutter where permitted
- Promote on-site infiltration, percolation and/or reuse of runoff by installing storm water Best Management Practices (BMPs) such as:
 - Cisterns and rain barrels
 - vegetated open swales with a permeable soil base
 - rain garden/bioretenion areas
 - dry wells
 - vegetated buffers
 - infiltration trenches
 - vegetated roof systems
 - tree box filters
 - constructed wetlands
 - filter strips
 - pervious pavement and pavers
- Promote diffuse flow or runoff over the landscape in lieu of concentrated flow
- Direct flow from gutter downspouts to vegetated, stable areas
- Utilize detention practices such as check dams in conveyance channels

Project Criteria #3: Green Building

Construction Materials and Site Design – describe how/if

- Construction site waste was minimized; use job-(recycling dumpsters)
- Trees and other feature protection from construction damage
- Sustainable building materials (certified forest products) were utilized
- Energy efficient building use and minimal land disturbance was utilized
- Employment of LEED design

Water Efficiency – Describe how/if

- Use of rainwater for landscape irrigation purposes
- Emphasized native plant species and xeriscaping utilized to minimize need for irrigation water
- Installation of gray water system for flushing toilets or irrigation
- Installation of low flow fixtures, faucets and shower heads
- Installation of timer and moisture sensors on irrigation system

Energy Efficiency – Describe how/if

- Employment of passive solar design or integrate other renewable energy sources
- Construction of buildings that are Energy Star rated
- Use high efficiency heating and air conditioning systems

Project Name

- Use highest “R” rated insulation packages (thermal windows/attic/floor insulation) or substitute unique building materials
- Arrangement of building for optimal solar orientation and prevailing breezes
- Installation of solar panels for water heating, space heating and electricity generation
- Integration of green roofs/roof gardens into project

Indoor Environmental Quality- Describe how/if

- Use low toxicity building and interior design materials
- Ensured proper ventilation and employ “small area” thermal controls
- Maximized use of natural light and provide views

Project Criteria #4: Wetland Riparian Preservation/Restoration- Describe how/if

- Preserved existing topography and natural features
- Maintained or enhance riparian buffers by adding woody vegetation to the buffer
- Planted absorptive ground cover under the woody canopy
- Utilized the natural floodplain to spread surface flow from the developed area
- Maintained or enhance the pre-developed stream or wetland character and function (ie natural stream meanders)
- Protected and /or enhance existing wetlands and vegetated buffers zones

Project Criteria # 5: Habitat Criteria - Protection/Improvement – Describe how/if

- Integrated the natural landscape into the lot design consistent with onsite patterns
- Developed a management plan to preserve unique habitats identified in the site inventory
- Enhanced the vegetated buffers around aquatic resources with native vegetation
- Maintained contiguous woodland to provide the best bird habitat and to benefit wildlife
- Created interconnecting greenways/wildlife corridors and connections
- Used alternatives to road crossings and fencing that will not impede wildlife access
- Constructed a guided nature trail with bird feeding stations and nest boxes
- Promoted a backyard habitat program

Project Criteria #6: Vegetation Protection/Enhancement – Describe how/if

- Protected native vegetation and use native vegetation in landscaping plan
- Eradicated invasive exotic plant species
- Developed and implement a forestry management plan and a tree preservation plan to minimize tree loss and damage
- Preserved site’s existing trees and vegetation (ie. minimize clearing of native vegetation, underdeveloped land, forests, wetlands, etc.)
- Created vegetative buffers that enhance view without removing large woody species

Project Criteria #7: Natural Project Amenities – Describe how/if

- Protected portions of the site with outstanding landscape views
- Created communal opportunities for all residents to enjoy view and/or access to water
- Built the amenities and finishes to be consistent with the landscape character
- Minimized visual impact of driveways, off street parking, garage and carports
- Preserved views and privacy of others, and include in open space plan
- Included passive recreation opportunities that emphasize natural amenities
- Protected the historical and cultural resources identified on the site inventory

Project Criteria #8: Long-term Management and Maintenance – Describe how/if

- Formally recorded conservation easements for the preserved areas, such as wetlands, riparian buffers and flood plains and areas with unique biological communities
- Inserted the habitat management plan into the homeowners association (HOA) by-laws
- Provided buffers near areas of human activity to protect/enhance wildlife areas

Project Name

- Included in the by-laws and/or rules the ability of the managing agency to:
 - Provide measures to prevent attracting nuisance animals (geese, raccoons, etc.); &
 - Prevent domestic pets from roaming freely while providing designated areas where people can exercise their pets with a workable pet waste management policy
- Provided assurance that the HOA, or other entity charged with the management of the natural and cultural features of the development, has the funding to implement the management plan for resource protection and the maintenance of the areas
- Constructed the HOA by-laws to ensure access by the general public to nature trails, historical, archaeological, and cultural sites

Project Criteria #9: Community Outreach/Education - Pre-construction Options ~ Developer Responsibilities – Describe how/if:

- Created an environmental stewardship mission statement for the development
- Involved neighboring landowners in the site inventory and project design
- Explained the benefits of low impact development on the surrounding owners
- Involved cooperative opportunities to resolve community problems, such as traffic, drainage, wildlife, and water quality
- Provided interpretive signage or information for historical and cultural resources

Construction ~ Developer Responsibilities

- Posted mission statement at the main entrance to the development
- Publicized the environmental benefits of this stewardship project (eg, protection of natural space, wildlife and habitat protection, water quality)
- Incorporated environmental benefits in marketing literature
- Actively participated with builders in siting and landscaping on individual lots
- Installed pet waste stations and educational signage regarding pets
- Provided educational signage for residents and visitors regarding the BMPs on site
- Developed an informational program for purchasers/residents to encourage development and maintenance of site amenities with information on:
 - Stormwater BMPs;
 - Wildlife conservation and the use of native plants that have value for wildlife;
 - Volunteer opportunities and cost share programs that provide financial and technical assistance

Active sales period ~ Developer/Marketing Agent Responsibilities

- Distributed specific environmental information to potential buyers and builders by publicizing the financial and community benefits of low impact development, such as:
 - Visual attractiveness of the development;
 - Quality of life benefits from active and passive open space, wildlife protection, surface water management, and maximum tree cover;
 - Short-term cost savings to developer from low impact development;
 - Benefits to homeowners from energy and water operating efficiencies; or
 - Reduced long-term costs to society from low impact development
- Emphasized the natural environment features in the “Parade of Homes” competition and/or neighborhood /community meetings or special events

Project Criteria # 10: Re-Use/Revitalization of Existing Site

- Conducted an environmental assessment and design the development project to preserve, integrate and enhance:
 - Outstanding specimen trees and native vegetation;
 - Existing storm water management features and drainage patterns; and
 - Role of the site in the natural and physical systems of the surrounding properties
- Evaluate the following elements in the site design:

Project Name

- Service needs and blending effectiveness with existing community and developments (such as small, first order shops to minimize need for automobile travel by creating /enhancing public transit opportunities);
 - Strategies to re-establish or augment the functioning of natural systems, such as covered swales and streambeds or restoring filled wetlands;
 - Compatibility of the new architecture with the surrounding built environment,
 - Mitigation of known environmental problems, eg subsurface storage tanks;
- Re-use of existing materials in order to minimize waste or recycle construction site channels