

FEDERAL CORRECTIONAL INSTITUTION BUTNER, NORTH CAROLINA

**The First Federal
Prison in the U.S.
to Earn LEED
Certification**



Size: 49,150 S.F.

Budget: \$97,000,000

Bid: \$98,721,350

Completed: November 2005

The Federal Bureau of Prisons decided early in the design process to pursue Leadership in Energy and Environmental Design (LEED®) certification and take a high performance approach to the Federal Correctional Institution's design. Steps taken to achieve a high performance design included the following:

- Situating the facility on the site to minimize the disturbance of nearby wetlands and waterways.
- Setting aside an area of land equal to the building footprint to be preserved for the life of the building.
- Incorporating detention basins, a wetland planting area, and settlement for-bays to reduce and cleanse runoff.
- Providing bicycle storage and changing/showering facilities for employees and visitors.
- Adding five compressed natural gas vehicles to the facility's fleet.
- Landscaping only with low-growing grasses, which do not require irrigation.
- Reducing water use by 33 percent through the use of low-flow urinals and ultra low-flow lavatories, showers, and sinks throughout the facility.
- Using materials manufactured within 500 miles of the project site.
- Recycling over 70 percent of construction waste.
- Incorporating permanent entry walk-off systems.
- Using low-emitting adhesives, sealants, carpet, and composite wood products.
- Creating and implementing a "Green Housekeeping Plan."

