



*DiFONTE CONSULTING, INC.*

*ENGINEERS in CIVIL, INFRASTRUCTURE, TRANSPORTATION and LAND DEVELOPMENT*



### **Pine Jog Elementary School**

**Owner:** School District of Palm Beach County

**Client:** Zyscovich, Inc.

**Services:** Site Planning  
Engineering  
Permitting  
LEED Civil Processing  
Construction Observations

### **Project Description:**

Our firm, together with the Project Team, secured the first LEED Gold Rating for a public school campus in Florida. The project has received state and national awards for its innovative environmental approach in design and operation. This campus maximizes energy and water conservation, uses recycled materials, and engages students to learn about environmental sustainability. As the civil engineer for the project, we planned, designed, permitted, and observed the construction of the \$24 million campus.

From a civil perspective, the project is constructed in a densely vegetated upland preserve. We contoured the site topography to be in harmony with vegetation to ensure minimal adverse impacts. We harvested the roof rainwater to irrigate portions of the campus and provide a hydroponic garden for the students. We treated the surface water system extensively prior to discharging offsite to recharge an adjacent irrigation lake. We utilized recycled materials for construction of the pavement system for the parking lots, drives and playfields.

Contract documents were prepared to serve the school campus and an adjacent Environmental Center including access drives, parking areas, play fields, water system, sanitary sewer lift station, force mains, gravity sewer mains, and drainage system. We also prepared design plans for a new driveway connection; modifications and turn lanes to the adjacent thoroughfare road; coordinated our design with regulatory agencies and nearby developments for a new traffic signal at the main entrance to the campus.

Extensive coordination and permitting was required from key regulatory agencies including: the US Army Corps of Engineers, SFWMD, LWDD, PBC Engineering, PBC Traffic, PBC Fire Rescue, PBC Water Utilities, City of West Palm Beach Utilities and PBC Health Department.