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WHITE OAK STUDIO
LANDSCAPE ARCHITECTURE

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KEITH-WIESS REGIONAL DETENTION BASIN MASTER PLAN

White Oak Studio worked with Harris County Flood Control District and Houston Parks & Recreation Department to design a 100 acre regional stormwater detention basin along Hall's Bayou in Northeast Houston.

The mandate for including such a large detention basin within the 400 acre Keith-Wiess Park was that the detention basin must enhance the park aesthetically, recreationally and must enhance wildlife habitat.

PBS&J was the civil engineer. The landscape architect's role on this project was to lead the design for the configuration, landform and water features of the basin. Additionally we were responsible for design and documentation of recreation amenities including trails, boardwalks, soccer fields, playground and picnic facilities that were added to the project by grant funding from Texas Parks & Wildlife.

A system of ponds, streams and wetlands in the bottom of the basin is fed by an inflow pipe from Hall's Bayou and runoff from surrounding development. The stormwater is cleaned by the wetland plantings in the basin and returned to the bayou at the downstream end of the basin.



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- 2 -

Extensive habitat plantings integrate the excavation into the surrounding woodland landscape as well as providing enhanced wildlife cover and forage within the park.

Jim Patterson managed and designed this project partly as Principal at another firm as well as at White Oak Studio.

Overview of Results:

The project was completed as designed. Wetlands plantings are growing in and are being monitored by the Client.