



Jefferson Pilot Dam, Greensboro, NC



JEWELL Engineering designed the restoration of this 20+ acre pond embankment for stormwater management as part of an overall commercial development of the property. There were trees on the existing dam, saturated soils and seepage problems along with other issues that had to be addressed. The dam was repaired using a seepage diaphragm on the downstream end connected to the existing concrete seepage cutoff. An existing rock outcropping was utilized as a plunge pool. Dissipator blocks were installed to dissipate energy from the primary spillway outlet and the emergency spillway was lined with gabion baskets to protect the embankment. Construction costs were minimized by extending the existing bottom drain which significantly reduced excavation costs. The new riser outlet was protected by a custom designed trash rack. The project was completed in 2000.

