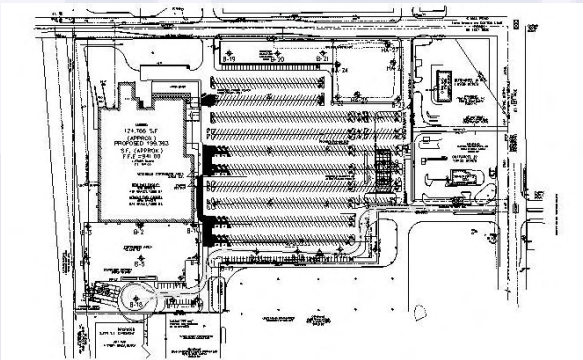




## “Big Box” Stores Project Profile

G2 Consulting Group, LLC has performed geotechnical investigations for several “Big Box” national retail stores. The investigations were performed for new stores as well as expansion of existing stores. The projects generally con-



sist of the construction of a large building, associated parking lots, access drive, a fueling station, and detention basins. Additionally, for expansion sites, G2 has performed extensive pavement and existing detention pond investigations.

The soil boring locations were determined and performed in accordance with specifications provided by the national chain. The specifications designate activities such things as minimum borings within the building in respect to square footage and maximum grid spacing within non-building areas, such as pavements or detention pond locations.



Extensive investigations of the existing pavements and detention basin have been performed. Soil borings were extended to a depth of 5 feet within the existing pavement areas and in-situ classification and tests of the subgrade soils were documented. Recommendations taking into account desired pavement life, traffic volumes, and existing soil and pavement conditions were provided for pavement reha-



bilitation were provided. Within the detention basin, a G2 engineer extended soil borings on a grid pattern through the existing water and sediment to determine whether a cohesive liner had been utilized in the construction of the basin and to evaluate the underlying soils.

G2 provided extensive in-situ and laboratory testing to evaluate physical properties of the soil. In-situ and laboratory tests were performed in accordance with current ASTM and AASHTO sampling and method specifications. In-situ testing included Resistivity tests, Static Cone penetrometer, and Dynamic Cone penetrometer. Laboratory testing included Atterberg limits, California Bearing Ratio (CBR), sieve analysis, pH, and consolidation test for soils which have a potential for excessive settlement.