

as fill during construction of the nearby Suncoast Parkway. This report presents a brief discussion of our understanding of the project, the exploration procedures, results, and our conclusions regarding depths of select fill.

2.2 EXISTING SITE

The project site is located in Citrus County, Florida and is comprised of parcel ID 17E18S12 40000 and part of parcel ID 17E18S11 20000. Aerial photographs showed the parcel as heavily wooded. However, the testing areas had been recently cleared in anticipation of the planned fieldwork and future expansion of the Suncoast Parkway.

3.0 SUBSURFACE EXPLORATION AND TESTING METHODS

3.1 SCOPE OF EXPLORATION

The subsurface soils were explored using a total of thirty-five (35) Standard Penetration Test (SPT) borings advanced to depths of approximately 20 to 55 feet below existing grade. Our staff located the boring locations in the field with the use of a handheld Global Positioning System (GPS) device. The approximate locations of the borings are illustrated on **Sheet 1**. Following the field exploration, the soil samples were analyzed in our laboratory and classified by a geotechnical engineer.

3.2 FIELD EXPLORATION AND TESTING

The SPT borings were performed in general accordance with ASTM D-1586 entitled "Standard Method for Penetration Test and Split-Barrel Sampling of Soils." After drilling to the required depth and cleaning the borehole, the sampler (2" O.D.) was driven 18 or 24 inches into the undisturbed soil by a 140-pound drop-hammer falling 30 inches. The number of blows required to drive the sampler the second and third 6-inch increments is known as the Standard Penetration Resistance ("N"-value). The various soils encountered in the borings were visually classified in the field and representative soil samples were obtained and transported to our laboratory for further examination by a geotechnical engineer. The soils encountered in the borings were classified utilizing the American Association of State Highway and Transportation (AASHTO). At the completion of the drilling operations, the boreholes were plugged in accordance with Southwest Florida Water Management District guidelines. The procedures used by Test Lab for field sampling and testing are in general accordance with ASTM procedures and established engineering practice. The locations of the SPT borings and the subsurface conditions encountered at the SPT borings performed along with other pertinent information are presented on **Sheets 2 to 8**.

3.3 LABORATORY TESTING

Laboratory testing was performed on select soil samples collected from the borings. The samples selected were chosen to confirm classification. The laboratory tests were carried out in general accordance with ASTM procedures. The results are shown on the Soil Profile Sheets, adjacent to the depth increment of the test sample on **Sheets 2 to 8**. The following is a list of the laboratory testing performed and the corresponding test designation.

- i. Grain-Size Analyses - The grain-size analyses were conducted in general accordance with the AASHTO test designation T-088 (ASTM test designation D-422).