ROADWAY SOIL SURVEY

BUCK LAKE ROAD
LEON COUNTY, FLORIDA

Prepared For:

BASKERVILLE-DONAVAN, INC.
2804 REMINGTON GREEN CIRCLE
TALLAHASSEE, FLORIDA 32308

Prepared By:

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FILE NUMBER: 16-03-97

EGS

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

File No.: 16-03-97

June 12, 1997

Baskerville-Donovan Inc.
2804 Remington Green Circle
Tallahassee, Florida 32308

ATTN: Richard Letourneau
Project Manager

SUBJECT: Final Roadway Soil Survey
Buck Lake Road
From Mahan Road (U.S. 90) to Pedrick Road
Leon County, Florida.

Dear Richard:

Enclosed are three (3) copies of the Roadway Soil Survey Report for the above referenced project. Two (2) copies are for your files and one (1) copy if for submittal to the Leon County Department of Public Works.

Presented in this Report is a summary of the subsurface materials encountered and laboratory tests results. The subsurface investigation includes that performed for the roadway investigation, utility borings and culvert extension borings.

If you have any questions concerning the information contained in this Report, please do not hesitate to call us.

Very truly yours,

Environmental and Geotechnical Specialists, Inc.

Myron L. Hayden 6-12-97

Myron L. Hayden, Ph.D., P.E.
Senior Engineer
FL P.E. No. 34067

Enclosures

2012 NORTH POINT BOULEVARD / SUITE C / TALLAHASSEE, FL 32308 / (904) 386-1253 / FAX (904) 385-8050

TABLE OF CONTENTS

TABLE OF CONTENTS (CON'T)

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

1.0 INTRODUCTION

This Report contains a summary of the field activities conducted by Environmental and Geotechnical Specialists, Inc. (**EGS**) as authorized for the testing of soils on both sides of Buck Lake Road beginning at 18+70.7 (Mahan Drive, U.S. 90) and ending at Station 122+00 (west of Pedrick Road). In addition, this report includes an evaluation of the test data, soil classification data sheets, roadway soil survey sheets, and preparation of this report.

2.0 SITE LOCATION AND CONDITIONS

The proposed resurfacing and widening of Buck Lake Road included in this study begins at the intersection of Buck Lake Road and Mahan Drive (U.S. 90) and ends immediately west of Pedrick Road in Leon County, Florida. A Site Location Map has been provided as **Figure 1**. It should be noted that the study outlined in this Report does not include the intersection of Buck Lake Road and Pedrick Road, since the final "layout" of the intersection has not been completed. It is **EGS's understanding** the "typical" section of Buck Lake Road is to consist of the four-lane divided, curb and gutter section with bike lanes and sidewalks from Mahan Drive (U.S. 90) to Davis Drive. From Davis Drive to Pedrick Road the "typical" section is to consist of the existing two-lane roadway with "new" bike lanes, paved shoulders, sidewalks and an open conveyance drainage system.

A photograph of the beginning of the project alignment, taken from Buck Lake Road "looking" towards the intersection of Buck Lake Road and Mahan Drive (U.S. 90), is shown in **Figure 2**. A photograph of the end of the project alignment, at the intersection of Buck Lake Road and Pedrick Road, is shown in **Figure 3**. As can be seen in both of the **Figures,** the existing road consists of a two (2) lane roadway with narrow unpaved shoulders. The vegetation on both sides of the roadway is mostly hardwood trees, with some residential landscaped areas.

3.0 SUBSURFACE INVESTIGATION

An investigation of the subsurface soils was conducted from February through April of 1997 by Environmental and Geotechnical Specialists, Inc. (**EGS**). Susan Wranosky of **EGS** was the field supervisor. In addition, **EGS** conducted an asphalt and road base survey at eighteen (18) locations along the existing roadway on March 11, 1997.

The soil borings for the roadway, utilities and culverts have been numbered consecutively with increase in stationing. The boring number, depth, stationing, elevation and offset for the roadway and utility borings are presented in **TABLE 1**. The boring number, depth, stationing, and offset for the culvert borings are presented in **TABLE 2**. The Soil Survey Sheets are provided in **APPENDIX A**. The Boring Logs for the roadway, utility and culvert borings are included in **APPENDIX B**.

Dynamic penetration tests (**DPT**) were conducted on two and one-half (2 1/2) feet intervals at the roadway boring locations. For the utility borings, standard penetration tests (**SPT**) were conducted at the surface and at five (5) feet intervals thereafter. The soil samples were classified in the field by **EGS** personnel and then sealed and transported to **EGS's** laboratory for additional testing. The laboratory tests included grain-size distribution, Atterberg limits, water contents and organic contents. The subsurface soils were classified with respect to both the Unified Soil Classification System (**UNIFIED**) and the American Association of State Highway and Transportation Officials (**AASHTO**) system. The Soil Classification Data has been included as **APPENDIX C.**

Forty-eight (48) hour soaked Limerock Bearing Ratio (**LBR**) tests were conducted on five (5) samples of roadway base materials. The results of the **LBR** tests are presented in **APPENDIX D**. Undisturbed samples of the roadway base were also collected at each **LBR** sample location. The in situ dry density of the roadway base materials were determined and correlated with the laboratory test results to estimated the in situ **LBR** design strength. This correlation is summarized in **TABLE 3**.

The asphalt and road base survey consisted of coring the existing roadway at eighteen (18) locations to determine the thickness of asphalt and road base. The asphalt and road base thicknesses for the corresponding stationing and offsets are provided in **TABLE 4**.

3.1 Roadway Borings

The investigation consisted of installing ninety-two (92) auger borings to depths varying from five and one-half (5 1/2) to ten (10) feet on both sides of the roadway. The borings were "staggered" with borings alternating to the north and south side of the roadway. To assist in evaluating in situ strength and consistency, the auger borings were supplemented with Dynamic Penetration Tests (**DPT**) conducted on two and one-half (2 1/2) foot centers.

3.2 Utility Borings

Ten (10) borings were installed to a depth of twenty-one and one-half (21 1/2) feet along the north and south side of the roadway. The purpose of installing these deeper soil borings was to evaluate the subsurface conditions which will likely be encountered during the installation of the proposed storm sewer and other buried utilities. The borings were installed using a **CME-55** truck mounted rotary drilling rig under the supervision of Susan Wranosky. Standard penetration tests (**SPT**) were conducted at the ground surface and on five (5) feet intervals thereafter.

3.3 Culvert Borings

EGS installed two (2) soil borings at the location of the culvert to be extended and identified as being over thirty (30) inches in diameter. The culvert is located to the west of the intersection of Davis Drive and Buck Lake Road. At the boring installed on the north end of the culvert, standard penetration tests (**SPT**) were conducted at the ground surface and on five (5) feet intervals thereafter. At the boring on the south end of the culvert, dynamic penetration tests (**DPT**) tests were conducted on two and one-half (2 1/2) feet intervals.

4.0 MATERIAL DESCRIPTIONS

4.1 Material 1

MATERIAL 1 is a medium dense silty fine sand (**SM/A-2-4**) which varied in water content from ten (10) to twenty-three (23) percent with most of the values around fifteen (15) percent at the time of the investigation. The percentage of fines of this material varies from thirteen (13) to thirty-four (34) percent with most of the values around twenty-seven (27) percent.

The Liquid Limit varies from only twenty-three (23) twenty-nine (29) with a corresponding variation in Plasticity Index from four (4) to nine (9). This material is classified as being primarily "inorganic" with a variation in organic content from zero (0) to two (2) percent.

MATERIAL 1 would be considered as a "**SELECT**" soil by the Florida Department of Transportation (**FDOT**) for use as a compacted base or subgrade. However, it should be noted that although **MATERIAL 1** is a "**SELECT**" soil, the relatively high fines content

implies that the soil will likely retain moisture during wet periods and be difficult to compact. Although **EGS does not recommend** this material be "undercut" the relatively high fines content will make this soil difficult to reuse as compacted fill.

4.2 Material 2

MATERIAL 2 is a medium stiff moderately plastic clayey sand (**SC/A-2-6**). The range in water content was from eleven (11) to twenty-seven (27) with most of the values around twenty (20) percent at the time of sampling. The fines content varies from twenty-seven (27) to thirty-four (34) percent with an average value of about thirty (30) percent.

The Liquid Limit varies from twenty-four (24) to thirty-five (35) with a corresponding variation in Plasticity Index from thirteen (13) to fifteen (15). This material is classified as being "inorganic".

This material would be considered as a "**PLASTIC**" soil by the **FDOT** for use as a compacted base or subgrade. It should be noted the high fines content implies that the soil will retain moisture during wet periods and be difficult to compact. **EGS recommends** this material be undercut to a depth of one and one-half (1 1/2) feet below any compacted stabilized base. **EGS does not recommend** this material be used as fill beneath any roadway, bike lane, paved shoulder, bearing surface or utility excavation.

If this material is to be used as fill outside the control limits of the project, **EGS recommends** it be done only with the approval of the **OWNER'S ENGINEER**.

4.3 Material 3

This material is a medium dense plastic silty sand (**SM/A-4**) with a range in water content of from twelve (12) to twenty-four (24) percent with most of the values around fifteen (15) percent. The percentage of fines of the material varies from thirty-six (36) to forty-nine (49) percent with an average of about forty-two (42).

The Liquid Limit varies from only twenty-three (23) to forty (40) with a corresponding variation in Plasticity Index from four (4) to seven (7). This material is classified as being primarily "inorganic with a variation in organic content from zero (0) to 2.3 percent.

This material would be considered as a "**PLASTIC**" soil by the **FDOT** for use as a compacted base or subgrade. It should be noted the high fines content implies that the soil will retain moisture during wet periods and be difficult to compact. **EGS recommends** this material be undercut to a depth of one and one-half (1 1/2) feet below any compacted stabilized base. **EGS does not recommend** this material be used as fill beneath any roadway, bike lane, paved shoulder, bearing surface or utility excavation.

If this material is to be used as fill outside the control limits of the project, **EGS recommends** it be done only with the approval of the **OWNER'S ENGINEER**.

4.4 Material 4

This material is a medium dense clayey sand (**SC/A-4**) with a range in water content of from fourteen (14) to eighteen (18) percent with most of the values around sixteen (16) percent. The percentage of fines of the material varies from thirty-six (36) to thirty-nine (39) percent with an average of about thirty-eight (38).

The Liquid Limit varies from only twenty-four (24) to thirty-nine (39) with a corresponding variation in Plasticity Index from five (5) to ten (10). This material is classified as being "inorganic".

This material would be considered as a "**PLASTIC**" soil by the **FDOT** for use as a compacted base or subgrade. It should be noted the high fines content implies that the soil will retain moisture during wet periods and be difficult to compact. **EGS recommends** this material be undercut to a depth of one and one-half (1 1/2) feet below any compacted stabilized base. **EGS does not recommend** this material be used as fill beneath any roadway, bike lane, paved shoulder, bearing surface or utility excavation.

If this material is to be used as fill outside the control limits of the project, **EGS recommends** it be done only with the approval of the **OWNER'S ENGINEER**.

4.5 Material 5

This material is a medium stiff moderately plastic clayey sand (**SC/A-6**) with a water content which ranged from fourteen (14) to fifty-five (55) percent with average of about twenty (20) percent at the time of sampling. The percentage of fines of this material varies from thirty-six (36) to forty-nine (49) percent with most values around forty (40) percent.

The Liquid Limit varies from twenty-six (26) to thirty-five (35) with a corresponding variation in Plasticity Index of from eight (8) to twenty-seven (27). There are no significant organics in this material.

This material would also be considered as a "**PLASTIC**" soil by the **FDOT** for use as a compacted base or subgrade. The high fines content implies that the soil will retain moisture during wet periods and be difficult to compact. **EGS recommends** this material be undercut to a depth of one and one-half (1 1/2) feet below any compacted stabilized base.

EGS does not recommend this material be used as fill beneath any roadway, bike lane, paved shoulder, bearing surface or utility excavation. If this material is to be used as fill outside the control limits of the project, **EGS recommends** it be done only with the approval of the **OWNER'S ENGINEER**.

4.6 Material 6

MATERIAL 6, a stiff plastic silt (**MH/A-7-5**), is characterized by a high percentage of fines varying from fifty-two (52) to eight-nine (89) percent. The water content at the time of sampling varied from forty-seven (47) to sixty-six (66) percent with most values around fifty-five (55). The Liquid Limit of this material varies from seventy-one (71) to one hundred and thirty-seven (137) with a corresponding variation in Plasticity Index of from twenty-three (23) to ninety-four (94).

MATERIAL 6 would be classified by the **FDOT** as "**HIGHLY PLASTIC**" and not suitable for compacted fill. **EGS does not recommend** this material be used as fill beneath any roadway, bike lane, paved shoulder, bearing surface or utility excavation.

If this material is to be used as fill outside the control limits of the project, **EGS recommends** it is done so only with the approval of the **OWNER'S ENGINEER**. In addition, if this material is encountered, it should be undercut to a minimum depth of four (4) feet beneath any stabilized base; however, **EGS does not anticipate** this material will be encountered within four (4) feet of the stabilized base.

5.0 SUBSURFACE MATERIALS

Copies of the soil classification data for all the soil borings are included in **APPENDIX C.** Shown on the data sheets are the results of laboratory testing conducted on selected samples.

As can be seen in **APPENDIX A,** Soil Boring **BL-1** was installed to a depth of twenty (20) feet near the intersection of Buck Lake Road and Mahan Drive (U.S. 90). Soil Borings **BL-6, BL-11, BL-16, BL-21, BL-26, BL-31, BL-36, BL-41,** and **BL-46** were installed to a depth of twenty-one and one-half (21 1/2) feet along the proposed utility locations on the north and south side of the roadway. Soil Borings **BL-51, BL-56, BL-61, BL-66, BL-71, BL-76, BL-81, BL-86, BL-91, BL-96** and **BL-101** were installed to a depth of ten (10) feet along the roadway. Soil boring **C-2** was installed to a depth of sixteen and one-half (16 1/2) feet on the north end of the culvert to be extended. Soil boring **C-1** was installed to a depth of eight and one-half (8 1/2) feet on the south end of the culvert to be extended. The remaining Soil Borings, **BL-1** through **BL-102,** excluding the borings described above, were installed to a depth of five and one-half (5 1/2) feet along the roadway.

5.1 Roadway

As can be seen on the Soil Survey Sheets presented in **APPENDIX A**, the soils encountered consisted primarily of silty sands (**SM/A-2-4** and **SM/A-4**), identified as **MATERIALS 1** and **3**, respectively and clayey sands (**SC/A-4** and **SC/A-6**), identified as **MATERIAL 4** and **MATERIAL 5,** respectively. In addition to the above soils, some clayey sands (**SC/A-2-6**), identified as **MATERIAL 2,** were encountered in Soil Borings **BL-2** and **BL-84.** It should be noted that a highly plastic silt (**MH/A-7-5**), identified as **MATERIAL 6,** was encountered at one (1) location in Soil Boring **BL-79** at a depth of four (4) feet.

5.2 Utilities

As can be seen on the Soil Survey Sheets presented in **APPENDIX A**, the subsurface soils consist of primarily silty to clayey sands, identified as **MATERIALS 1, 3,** and **5.** A "**HIGHLY PLASTIC**" soil (**MH/A-7-5**), identified as **MATERIAL 6**, was encountered in Soil Boring **BL-1** at a depth of about seven and one-half (7 1/2) feet, in Soil Borings **BL-16** and **BL-41** at a depth of approximately eighteen (18) feet in Soil Boring **BL-26** at a depth of sixteen (16) feet.

5.3 Culvert Extension

The subsurface soils encountered at the north end of the culvert to be extended, Soil Boring **C-2**, consisted of a silty sand (**SM/A-2-4**), to a depth of eleven and one-half (11 1/2) feet. This material has been identified as **MATERIAL 1** on the Soil Survey in **APPENDIX A**. Underlying this silty sand is clayey sand (**SC/A-6**), identified as **MATERIAL 5**, to a depth of at least sixteen and one-half (16 1/2) feet.

The subsurface soils at the south end of the culvert to be extended, in Soil Boring **C-1,** were silty sands (**SM/A-2-4**), identified as **MATERIAL 1** to a depth of three and one-half (3 1/2) feet. Underlying the silty sand is clayey sand (**SC/A-2-6**), identified as **MATERIAL 2**, to a depth of six and one-half (6 1/2) feet. Beneath the clayey sand is highly plastic silt (**MH/A-7-5**), identified as **MATERIAL 6**, to a depth of eight and one-half (8 1/2) feet.

5.4 Groundwater

Groundwater was encountered in two (2) of the roadway soil borings (**BL-51** and **BL-56**) at a depth of eight and one-half (8 1/2) feet . In the deeper utility soil borings, groundwater was encountered in two (2) of the Soil Borings (**BL-41** and **BL-46**). The depths to groundwater were measured at thirteen and one-half (13 1/2) feet and six and one-half (6 1/2) feet below the ground surface for Soil Borings **BL-41** and **BL-46**, respectively. Groundwater was encountered in both of the culvert soil borings (**C-1** and **C-2**). The depth to groundwater was measured to be at a depth of about one (1) foot below the ground surface in Soil Boring **C-1** and at five and one-half (5 1/2) feet in Soil Boring **C-2**.

As can be seen above, groundwater was only encountered in the Buck Lake area. This is to be expected since the elevation of the roadway is lower near the lake. It should be noted, groundwater may be encountered within six (6) feet of the ground surface at the intersection of Buck Lake Road and Pedrick Road. The installation of soil borings for the design of the intersection may confirm the presence of groundwater.

6.0 TEST RESULTS

6.1 Limerock Bearing Ratio

EGS collected five (5) soil samples along the roadway for use in conducting Limerock Bearing Ratio (**LBR**) tests. The **LBR** test results are contained in **APPENDIX D** and summarized in **TABLE 3.** As can be seen in **TABLE 3**, the maximum forty-eight (48) soaked **LBR** values ranged from thirty-nine (39) to sixty (60) with an average of forty-seven (47).

At each **LBR** location, **EGS** cored the pavement and collected an undisturbed sample of the compacted base material. The samples were transported to **EGS**'s laboratory where their water content and in situ dry density were determined. The results of those tests are shown in **APPENDIX D** and summarized in **TABLE 3**. As can be seen in **TABLE 3**,

the in situ dry densities varied from 94.1 to 99.9 percent of the soils maximum modified Proctor dry density with an average of 97.3 percent. Based on the in situ dry densities, **EGS** estimates the in situ **LBR** values vary from twenty-two (22) to fifty-eight (58) with and average of thirty-four (34) percent.

6.2 Corrosivity

EGS collected one (1) soil sample and one (1) groundwater sample for corrosivity testing. The soil sample collected for corrosivity testing was collected at the south end of the culvert to be extended in Soil Boring **C-1** at a depth of five (5) feet. The soil collected corresponds to **MATERIAL 5**. Since the soils where the culvert is to be extended on the northside of the roadway are **"SELECT"** silty sands **(SM/A-2-4)**, no sample was taken. **MATERIAL 5** is more corrosive than **MATERIAL 1**.

The results of the corrosivity testing has been summarized in **APPENDIX E**. As can be seen in **APPENDIX E**, the environment surrounding the proposed culverts will be only slightly aggressive with respect to corrosion.

6.3 Asphalt and Road Base Survey

EGS installed eighteen (18) core borings through the pavement to measure the thickness of existing asphalt and identified the presence of stabilized base material. The results of that survey are presented in **TABLE** 4 As can be seen in **TABLE** 4 the average thickness of asphalt was five and one-half (5 1/2) inches. **EGS did not observe** any stabilized base materials (i.e. limerock or soil-cement) at any of the locations. The original roadway was constructed of asphalt placed on compacted soils.

7.0 RECOMMENDATIONS

7.1 Roadway

Based on this subsurface investigation, **EGS believes** the following conditions exist:

* most of the soils likely to be encountered along the roadway will be **"SELECT" (SM/A-2-4)** or **"PLASTIC" (SM/A-4 or SC/A-4** or **SC/A-2-6 or SC/A-6)** as defined by the **FDOT**;
* **MATERIAL 1 (SM/A-2-4)** contains significant fines and will be difficult to compact when wet;

* **MATERIAL 2 (SC/A-2-6), MATERIAL 3 (SM/A-4), MATERIAL 4 (SC/A-4)** and **MATERIAL 5 (SC/A-6)** are "**PLASTIC**" soils and should be excavated to a depth of two (2) feet below the roadway stabilized base material;
* **MATERIAL 6 (MH/A-7-5)** is "**HIGHLY PLASTIC;**" however, it will not likely be encountered at depths of less than four (4) below the ground surface.

Because of the presence of "**PLASTIC**" soils (**MATERIAL 2, 3, 4** and **5**), **EGS recommends** the following:

* the new roadway area be undercut to a depth of one and one-half (1 1/2) feet below the bottom elevation of the stabilized base course at the locations specified in **TABLE 5**. The stationing of the recommended undercut locations are provided in **TABLE 5**;
* the excavation below the roadway should be accomplished in accordance with **FDOT Standard Index 505**;
* the surface of the excavation should be prepared and compacted in accordance with **FDOT Standard Specification 120-9;**
* all soils used as fill beneath the roadway should be a uniform fine sand (**SP/A-3**) or a silty sand (**SM/A-2-4**) with at least five (5) percent fines and no more than fifteen (15) percent fines and less than one (1) percent organics by weight. The fill soils should be placed and compacted in accordance with **FDOT Standard Specification 160-8**.

Where excavations are to be undertaken, **EGS does not believe** that "selective" excavation and segregation of the **SELECT** soils from the **PLASTIC** soils will be cost-effective.

EGS believes that suitable subgrade soils exist along the length of the project, except for the stretches of the roadway where undercutting has been recommended in **TABLE 5**. Prior to placement of any fill materials, **EGS recommends** the underlying subgrade soils be rolled using a vibratory roller weighing at least seven (7) tons with sufficient passes (at least five (5)) to develop a minimum dry density of ninety-eight (98) percent of the soil's modified Proctor dry density to a depth of at least twelve (12) inches below the ground surface.

EGS recommends that surface water be properly controlled to avoid water ponding within the limits of the proposed roadway. The presence of ponded water, coupled with machine and foot traffic, could result in excavated and compacted surfaces being unacceptable for use without additional compaction and/or partial replacement of existing disturbed soils.

7.2 Utilities

EGS does not believe shoring is needed for excavations less than five (5) feet deep, provided heavy equipment is kept at least one and one-half (1 1/2) times the excavation depth back from the edge of the excavation. **EGS recommends** excavations deeper than five (5) feet be properly shored or laid back to a slope not to exceed 1(V) on 1(H).

EGS recommends the backfill soils for the storm sewer be installed and compacted in conformance with **FDOT Standard Specification 125-8**.

7.3 Culvert Extensions

Based on the subsurface exploration, **EGS recommends** the following:

* prior to placement of the culvert, the culvert bed should be contoured and shaped to provide both broad and continuous support;
* the soils beneath the proposed culvert extension are suitable; however, any disturbance to the soil beneath the pipe during construction should be compacted in no more than six (6) inch lifts and to a dry density of at least 100% of the soil's standard Proctor maximum dry density;
* all soils to be used as culvert bedding should be compacted in layers of no more than six (6) inch in thickness and to a dry density of at least 100% of the soil's standard Proctor maximum dry density;
* the soils along the sides of the extended culvert should be compacted in no more than six (6) inch lifts and to a dry density of at least 100% of the soil's standard Proctor maximum dry density;
* soils over the extended culvert should be compacted in no more than twelve (12) inch lifts and to a compacted dry density of at least 100% of **AASHTO T-99** maximum dry density;
* all compaction and placement should conform to **FDOT Standard Specification 125.**

The surface soils at the culvert locations should be scraped off to remove the existing vegetation and organic matter. If fill material is to be brought in, the fill material should be conforming to **FDOT Standard Specification 125-8**.

Based on the subsurface exploration conducted for this study, dewatering of the culvert excavation will likely be required. **EGS believes** wellpoints will be necessary to adequately dewater the excavation. The groundwater table should be lowered to a depth of at least two (2) feet below the bottom of the excavation.

8.0 CLOSURE

The data and results presented in this Report are intended for the use of **Baskerville-Donovan, Inc.** and staff of **Leon County Department of Public Works** for design of Buck Lake Road from Mahan Drive (U.S. 90) to Pedrick Road. This Report is not intended for any other use and will likely not be applicable. The data and recommendations presented in this Report are based on the borings made at the specific locations and depths noted. Subsurface conditions at other locations may vary significantly from those presented herein. Should data become available which is different from the data presented herein, Environmental and Geotechnical Specialists, Inc. requests the opportunity to review the data and make any modifications to the design recommendations which may be appropriate.

9.0 SIGNATURES

Environmental and Geotechnical Specialists, Inc.

Myron L. Hayden 6-12-97

Myron L. Hayden, Ph.D., P.E.
Senior Engineer
FL P.E. No. 34067

Kim. Krishna 06-12-97

Krishna M. Kuchibhotla
Staff Engineer

TABLES

TABLE 1
BORING LOCATION DATA
ROADWAY AND UTILITY BORINGS
BUCK LAKE ROAD

BORING NUMBER	DEPTH* (FEET)	STATIONING (FEET)	ELEVATION (FEET NGVD)	OFFSET (FEET FROM CENTERLINE)
BL - 1	20.0	19 + 10	186.7	Centerline
BL - 2	5.5	20 + 00	186.3	39.7' North
BL - 3	5.5	21 + 00	190.4	37.5' South
BL - 4	5.5	22 + 00	189.4	39.8' North
BL - 5	5.5	23 + 00	192.6	36.8' South
BL - 6	21.5	24 + 00	186.3	46.6' North
BL - 7	5.5	25 + 00	186.8	37.2' South
BL - 8	5.5	26 + 00	183.3	36.0' North
BL - 9	5.5	27 + 00	183.7	30.8' South
BL - 10	5.5	28 + 00	180.9	29.1' North
BL - 11	21.5	29 + 00	180.5	25.3' South
BL - 12	5.5	30 + 00	178.7	25.7' North
BL - 13	3.5	31 + 00	176.7	19.8' South
BL - 14	5.5	32 + 00	173.1	19.3' North
BL - 15	5.5	33 + 00	167.8	18.3' South
BL - 16	21.5	34 + 00	162.2	17.4' North
BL - 17	5.5	35 + 00	157.0	18.0' South
BL - 18	5.5	36 + 00	152.5	16.0' North
BL - 19	5.5	37 + 00	149.4	18.2' South
BL - 20	5.5	38 + 00	147.1	14.7' North
BL - 21	21.5	39 + 00	146.0	16.8' South
BL - 22	5.5	40 + 00	145.3	17.0' North
BL - 23	5.5	41 + 00	145.9	17.0' South
BL - 24	5.5	42 + 00	146.5	16.8' North
BL - 25	5.5	43 + 00	146.0	14.8' South
BL - 26	21.5	44 + 00	143.5	16.4' North
BL - 27	5.5	45 + 00	138.9	17.0' South
BL - 28	5.5	46 + 00	135.3	17.4' North
BL - 29	5.5	47 + 00	130.8	17.8' South
BL - 30	5.5	48 + 00	129.4	15.3' North

NOTE: * DEPTHS ARE BELOW EXISTING ROADWAY SURFACE

TABLE 1 (CONT'D)
BORING LOCATION DATA
ROADWAY AND UTILITY BORINGS
BUCK LAKE ROAD

BORING NUMBER	DEPTH* (FEET)	STATIONING (FEET)	ELEVATION (FEET NGVD)	OFFSET (FEET FROM CENTERLINE)
BL - 31	21.5	49 + 00	126.5	15.9' South
BL - 32	5.5	50 + 00	125.0	16.8' North
BL - 33	5.5	51 + 00	122.5	16.2' South
BL - 34	2.5	52 + 00	119.7	16.0' North
BL - 35	5.5	53 + 00	116.3	15.4' South
BL - 36	21.5	54 + 00	111.8	18.0' North
BL - 37	5.5	55 + 00	107.0	15.0' South
BL - 38	5.5	56 + 00	100.6	16.8' North
BL - 39	5.5	57 + 00	96.7	16.8' South
BL - 40	5.5	58 + 00	92.9	18.7' North
BL - 41	21.5	59 + 00	88.7	18.3' South
BL - 42	5.5	60 + 00	85.2	18.0' North
BL - 43	5.5	61 + 00	83.1	18.0' South
BL - 44	5.5	62 + 00	82.4	17.0' North
BL - 45	5.5	63 + 00	81.8	18.0' South
BL - 46	21.5	64 + 00	81.8	19.2' North
BL - 47	5.5	65 + 00	82.6	12.8' South
BL - 48	5.5	66 + 00	82.8	15.0' North
BL - 49	5.5	66 + 94	82.4	20.0' South
BL - 50	5.5	68 + 00	84.0	17.1' North
BL - 51	10.0	69 + 00	83.0	17.2' South
BL - 52	5.5	70 + 00	86.2	22.3' North
BL - 53	5.5	71 + 00	86.9	18.6' South
BL - 54	5.5	72 + 00	92.9	15.3' North
BL - 55	5.5	73 + 06	97.7	18.0' South
BL - 56	10.0	74 + 00	103.5	25.3' North
BL - 57	5.5	75 + 00	108.5	14.0' South
BL - 58	5.5	76 + 00	113.0	13.0' North
BL - 59	5.5	77 + 00	115.9	18.0' South
BL - 60	5.5	78 + 00	119.2	15.7' North

NOTE: * DEPTHS ARE BELOW EXISTING ROADWAY SURFACE

TABLE 1 (CONT'D)
BORING LOCATION DATA
ROADWAY AND UTILITY BORINGS
BUCK LAKE ROAD

BORING NUMBER	DEPTH* (FEET)	STATIONING (FEET)	ELEVATION (FEET NGVD)	OFFSET (FEET FROM CENTERLINE)
BL - 61	10.0	79 + 00	122.1	17.3' South
BL - 62	5.5	80 + 00	125.7	16.9' North
BL - 63	5.5	81 + 00	131.7	12.8' South
BL - 64	5.5	82 + 00	135.9	15.6' North
BL - 65	5.5	83 + 12	142.9	20.3' South
BL - 66	10.0	84 + 00	145.1	16.0' North
BL - 67	5.5	85 + 00	148.4	17.2' South
BL - 68	5.5	86 + 00	149.8	14.0' North
BL - 69	5.5	87 + 00	146.4	15.3' South
BL - 70	5.5	88 + 00	148.3	13.9' North
BL - 71	10.0	89 + 00	147.5	20.3' South
BL - 72	5.5	90 + 00	148.4	15.8' North
BL - 73	5.5	91 + 00	147.4	16.6' South
BL - 74	5.5	92 + 00	147.6	17.0' North
BL - 75	5.5	93 + 00	146.3	16.6' South
BL - 76	10.0	94 + 00	145.4	19.2' North
BL - 77	5.5	95 + 00	141.7	20.0' South
BL - 78	5.5	96 + 00	139.0	13.8' North
BL - 79	5.5	97 + 00	138.8	18.8' South
BL - 80	5.5	98 + 00	135.7	16.7' North
BL - 81	10.0	99 + 00	135.7	14.0' South
BL - 82	5.5	100 + 00	133.0	16.0' North
BL - 83	5.5	101 + 00	134.9	17.0' South
BL - 84	5.5	102 + 00	132.9	16.0' North
BL - 85	5.5	103 + 00	130.9	18.0' South
BL - 86	10.0	104 + 00	131.7	15.4' North
BL - 87	5.5	105 + 00	131.8	14.6' South
BL - 88	5.5	106 + 00	128.6	16.5' North
BL - 89	5.5	107 + 00	128.4	16.4' South
BL - 90	5.5	108 + 00	124.6	15.0' North

NOTE: * DEPTHS ARE BELOW EXISTING ROADWAY SURFACE

TABLE 2
BORING LOCATION DATA
CULVERT BORINGS
BUCK LAKE ROAD

BORING NUMBER	DEPTH* (FEET)	STATIONING (FEET)	OFFSET (FEET FROM CENTERLINE)
C - 1	8.5	62+62.8	29.0' South
C - 2	16.5	62+62.8	17.0' North

NOTE: * DEPTHS ARE BELOW EXISTING ROADWAY SURFACE

TABLE 3
LBR SUMMARY
BUCK LAKE ROAD

MATERIAL TYPE	BORING NUMBER	MODIFIED PROCTOR*			LBR VALUES*	
		MAXIMUM DRY DENSITY (LB/CU FT)	OPTIMUM MOISTURE CONTENT (%)	MEASURED IN-SITU DRY DENSITY (LB/CU FT)	AT MAXIMUM DRY DENSITY	ESTIMATED IN-SITE LBR VALUE
SILTY SAND (SM/A-2-4) (MATERIAL 1)	B - 11	121.8	10.5	119.8	60	58
SILTY SAND (SM/A-4) (MATERIAL 3)	B - 27	119.0	9.4	116.8	39	31
SILTY SAND (SM/A-2-4) (MATERIAL 1)	B - 44	124.8	7.7	120.2	50	38
SILTY SAND (SM/A-2-4) (MATERIAL 1)	B - 70	119.5	7.8	112.5	42	22
SILTY SAND (SM/A-2-4) (MATERIAL 1)	B - 92	118.3	9.3	117.7	42	23
AVERAGE		**120.7**	**8.9**	**117.4**	**47**	**34**

NOTE: * SEE APPENDIX D FOR LABORATORY TEST DATA

TABLE 4
ASPHALT AND ROAD BASE SURVEY
BUCK LAKE ROAD

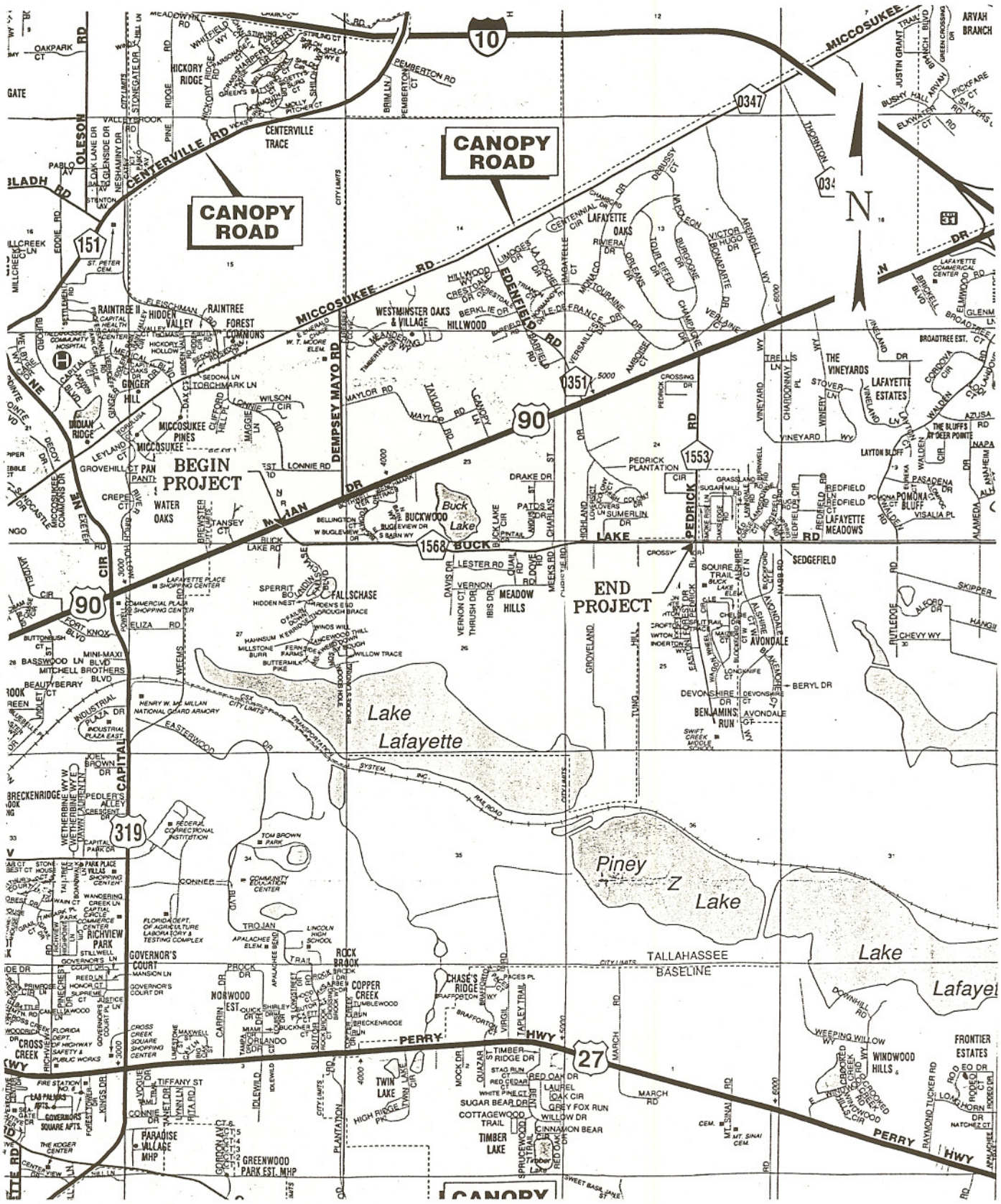
STATIONING	OFFSET FROM CENTERLINE (FEET)	ASPHALT THICKNESS (INCHES)	BASE THICKNESS (INCHES)
24 + 00	30.0 North	3.25	None
24 + 00	29.4 South	3.12	None
29 + 00	2.3 North	5.25	None
34 + 34	2.0 South	4.75	None
37 + 03	1.0 South	4.75	None
42 + 80	0.5 North	8.00	None
48 + 70	0.5 South	6.00	None
64 + 00	3.8 South	7.00	None
69 + 10	0.6 North	5.50	None
74 + 00	4.5 North	5.75	None
89 + 04	1.0 South	5.25	None
93 + 75	0.6 South	5.00	None
104 + 20	0.8 North	5.00	None
101 + 35	0.5 South	7.00	None
110 + 10	0.6 North	5.50	None
114 + 00	4.6 North	5.50	None
118 + 95	0.5 South	5.50	None
121 + 57	5.5 South	7.50	None

TABLE 5
RECOMMENDED ROADWAY UNDERCUT
BUCK LAKE ROAD

STATIONING (FEET NGVD)		UNDERCUT DEPTH* (FEET)
FROM	TO	
18 + 70	29 + 00	1.5
32 + 00	36 + 00	1.5
42 + 00	48 + 00	1.5
50 + 00	55 + 00	1.5
57 + 00	61 + 00	1.5
64 + 00	66 + 00	1.5
70 + 00	73 + 00	1.5
76 + 00	95 + 00	1.5
97 + 00	101 + 00	1.5
102 + 00	122 + 00	1.5

NOTE: * RECOMMENDED UNDERCUT DEPTH IS BENEATH THE BOTTOM OF THE PROPOSED ROADWAY BASE

FIGURES



DRAWN:	S. WRANOSKY
REVISED:	S. WRANOSKY
CHECKED:	M. HAYDEN, P.E.
ENGINEER:	K. KUCHIBHOTLA
SR.ENGINEER:	M. HAYDEN, P.E.
PROJ.NO.:	16-03-97

EGS

Environmental & Geotechnical Specialists, Inc.
2012 North Point Blvd. Suite C
Tallahassee, Florida 32308
Office #: (904) 386-1253 Fax #: (904) 385-8050

TITLE:

SITE LOCATION
Buck Lake Road
Leon County, Florida

SCALE:		DATE:	April 1997
FILE NO.:	16-03-97	FIG. NO.:	1

Figure 2. View of the West End of Project Alignment

Figure 3. View of the East End of Project Alignment

APPENDIX A

SOIL SURVEY SHEETS

REPORT OF TESTS

ROAD NAME: BUCK LAKE ROAD
COUNTY: LEON
SUBMITTED BY: K. KUCHIBHOTLA

SAMPLED BY: S. WRANOSKY
TESTED BY: A. D. MARTIN
DATE REPORTED: 05-27-97

SURVEY BEGINS STA.: 18+70.7 (US 90)

SURVEY ENDS STA.: 122+00.0 (WEST OF PEDRICK RD.)

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASSING							ATTERBERG LIMITS			CLASSIFICATION		
MATERIAL NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	% MOISTURE	NO. OF TESTS	4 MESH	10 MESH	20 MESH	40 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX	UNIFIED GROUP	AASHTO GROUP	DESCRIPTION
1	1	0-2.0	253	10-23	55	100	98-100	97-99	75-95	33-51	13-34	5	23-29	4-9	SM	A-2-4	SILTY SAND
2	--	--	10	11-27	3	100	100	98	81-92	35-48	27-34	4	24-35	13-15	SC	A-2-6	CLAYEY SAND
3	2	0-2.3	152	12-24	41	100	100	99-100	88-94	47-60	36-49	34	23-40	4-7	SM	A-4	SILTY SAND
4	--	--	15	14-18	8	100	100	99-100	86-94	45-64	36-39	8	24-31	5-10	SC	A-4	CLAYEY SAND
5	--	--	140	14-55	36	99-100	99-100	98-100	88-93	39-55	36-49	35	26-35	8-27	SC	A-6	CLAYEY SAND
6	--	--	5	47-66	4	100	99-100	97-99	95-99	65-93	52-89	2	71-137	23-94	MH	A-7-5	PLASTIC SILT

GENERAL NOTES :

SOIL STRATA DESCRIPTIONS SHOWN ARE FOR THE BORINGS SHOWN IN THESE PLANS ONLY AND ARE NOT TO BE CONSTRUED AS A GUARANTEE OF SOIL CONDITIONS OTHER THAN THE EXACT LOCATIONS OF THE BORINGS. ALL TEST VALUES WERE OBTAINED FROM SAMPLES TAKEN FROM ONE OR MORE OF THE BORINGS AND ARE NOT INTENDED TO GUARANTEE ANY TEST VALUES OTHER THAN AN APPROXIMATION AT THE LOCATION OF THE BORINGS. THOSE TEST VALUES SHOWING A RANGE OF VALUES MAY NOT INCLUDE THE HIGH AND/OR LOW VALUE FOR THE SPECIFIC STRATUM. IF THERE ARE ANY DOUBTS AS TO THE PREVAILING SUBSURFACE CONDITIONS, IT IS INCUMBENT UPON THE INDIVIDUAL RAISING THE QUESTION TO PERFORM HIS OWN SUBSURFACE INVESTIGATION.

ABSENCE OF WATER SURFACE DATA ON CERTAIN BORINGS IMPLIES THAT NO GROUNDWATER DATA IS AVAILABLE, BUT THIS DOES NOT NECESSARILY MEAN THAT GROUNDWATER WILL NOT BE ENCOUNTERED AT THESE LOCATIONS OR WITHIN THE VERTICAL REACHES OF THESE BORINGS.

LEGEND :

▽ WATER LEVEL DURING DRILLING
GNE GROUNDWATER NOT ENCOUNTERED DURING DRILLING
-- INDICATES UNMEASURED PARAMETERS

EMBANKMENT AND SUBGRADE MATERIAL:
1. REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURING WITHIN THE ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE FDOT STANDSRD INDICIES, UNLESS OTHERWISE DETAILED ON THE CROSS-SECTIONS AS "TO REMAIN."
2. MATERIAL UTILIZED IN SUBGRADE AND EMBANKMENT CONSTRUCTION SHOULD BE SELECT SOILS.
3. MATERIAL NUMBER 1 IS A SELECT MATERIAL; HOWEVER, IT WILL RETAIN MOISTURE AND WILL BE DIFFICULT TO COMPACT.
4. MATERIAL NUMBERS 2, 3, 4, AND 5 SHOULD BE TREATED AS PLASTIC MATERIALS.
5. MATERIAL NUMBER 6 IS A HIGHLY PLASTIC MATERIAL.

REVISIONS

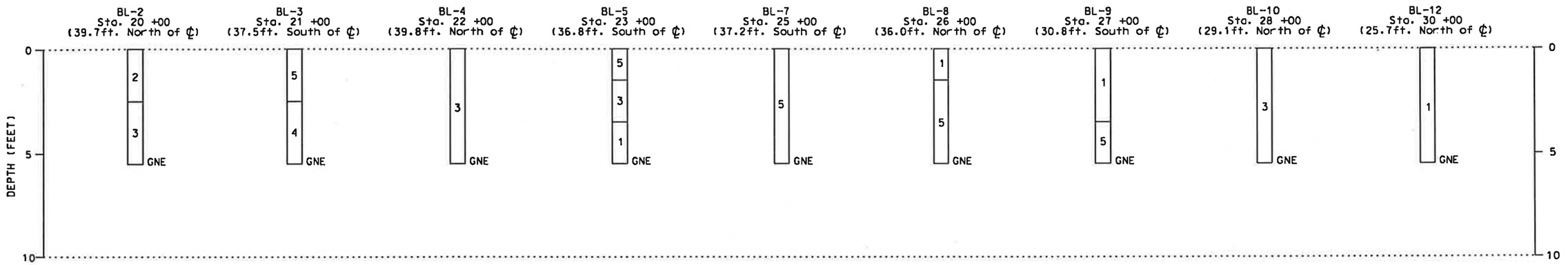
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

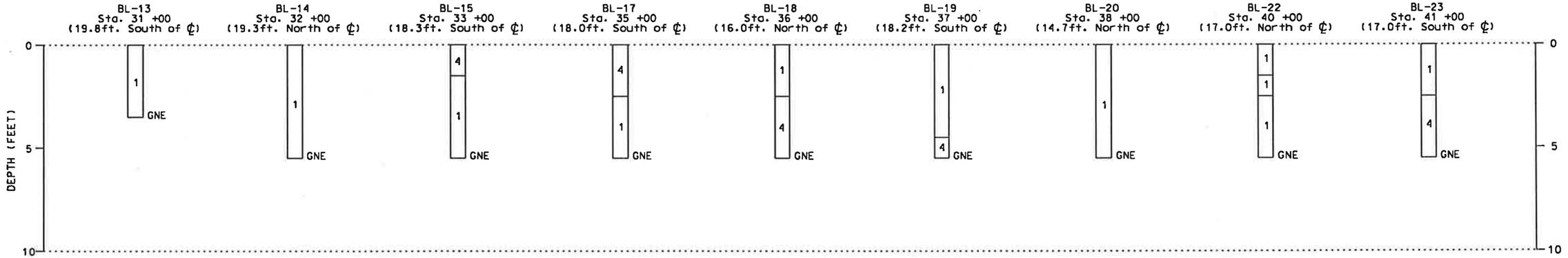
ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

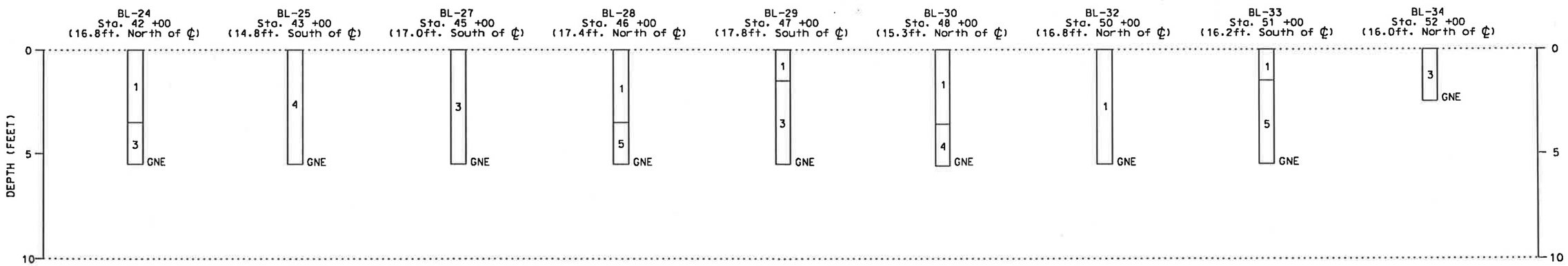
SEAL:
MYRON L. HAYDEN, P.E.
DATE:

REPORT OF TESTS

CROSS-SECTION OF ROADWAY SOIL SURVEY







REVISIONS

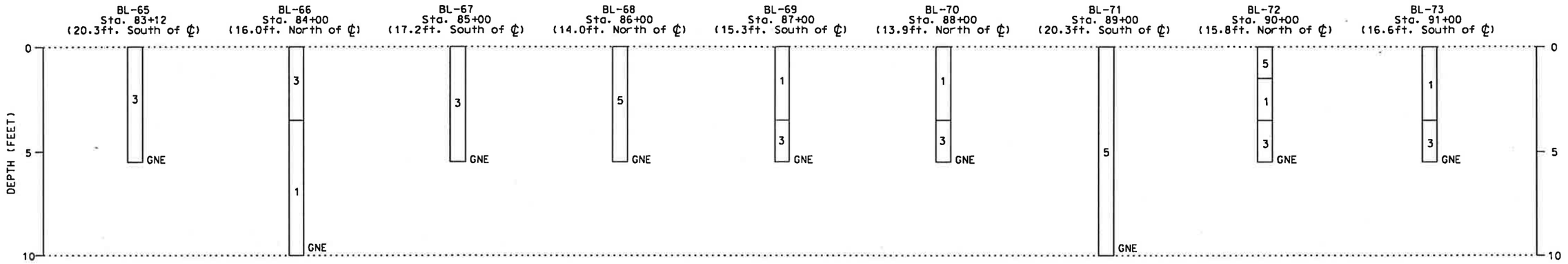
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

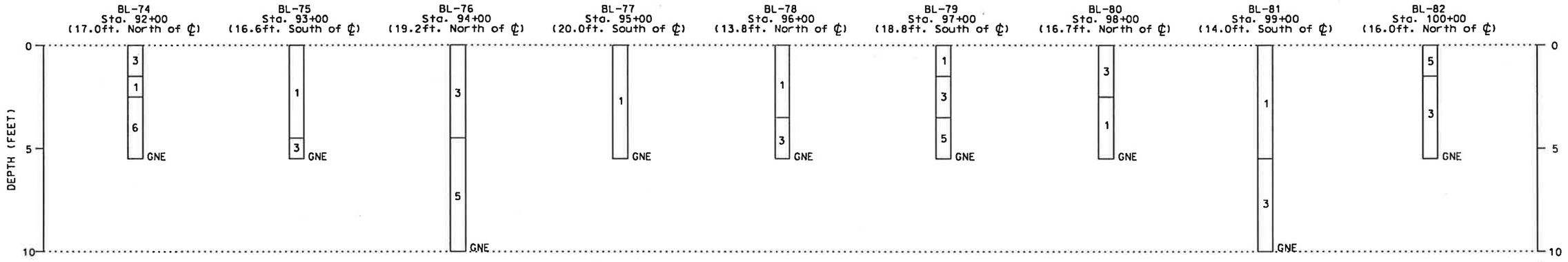
ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

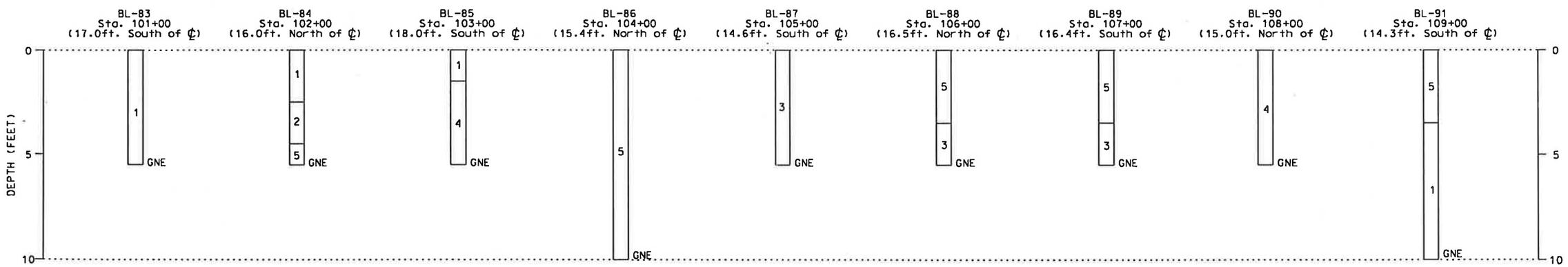
SEAL:
MYRON L. HAYDEN, P.E.
DATE:

ROADWAY SOIL SURVEY

CROSS-SECTION OF ROADWAY SOIL SURVEY







REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

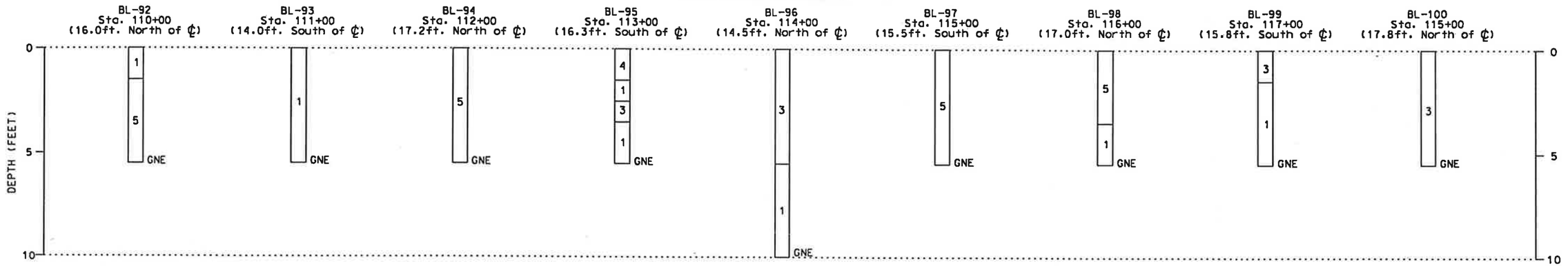
ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

SEAL:
MYRON L. HAYDEN, P.E.
DATE:

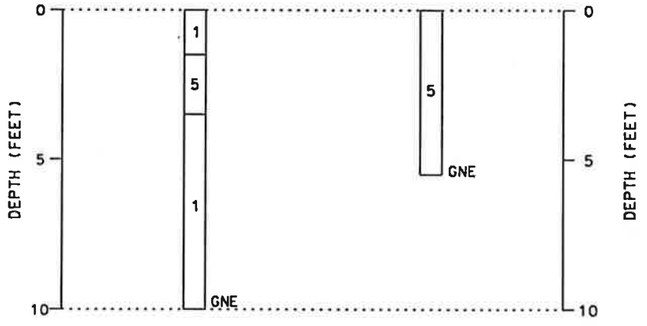
ROADWAY SOIL SURVEY

CROSS-SECTION OF ROADWAY AND CULVERT SOIL SURVEY

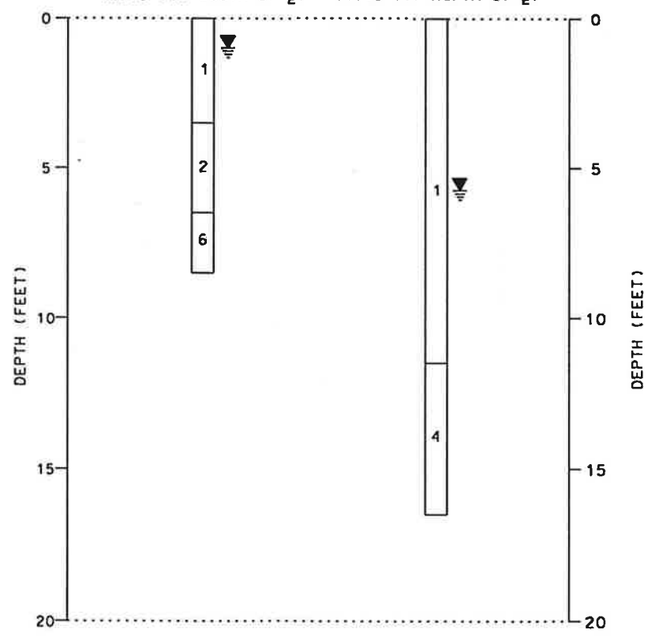
ROADWAY BORINGS



ROADWAY BORINGS



CULVERT BORINGS



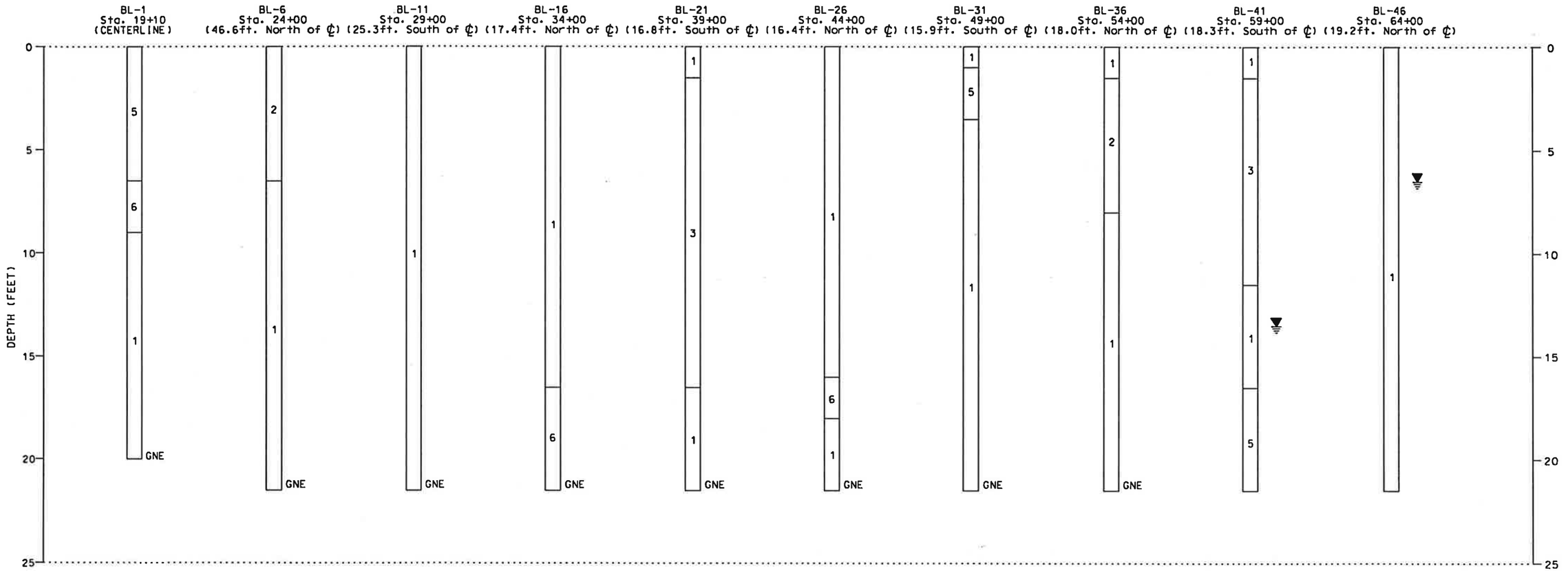
REVISIONS											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

SEAL:
MYRON L. HAYDEN, P.E.
DATE:

ROADWAY AND CULVERT SOIL SURVEY

CROSS-SECTION OF UTILITY SOIL SURVEY



REVISIONS										
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

SEAL:
MYRON L. HAYDEN, P.E.
DATE:

UTILITY SOIL SURVEY

APPENDIX B

BORING LOGS

ROADWAY BORING LOGS

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-26-97

BORING NO.: BL - 2 BORING LOCATION: STA. 20+00 (39.7' NORTH OF ℄) ELEVATION 186.3'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN CLAYEY SAND	SC (A-2-6)	7	12 11	-200-27% LL=24 PI=13	●
1m	5'			RED SILTY SAND	SM (A-4)	6	15 15 17	-200-36% LL=28 PI=6	●
2m									
3m	10'								
4m									
5m	15'								
6m	20'								
7m									
8m	25'								
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-26-97

BORING NO.: BL - 3 BORING LOCATION: STA. 21+00 (37.5' SOUTH OF ℄) ELEVATION: 190.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN CLAYEY SAND	SC (A-6)	2	18 17	-200-36% LL=32 PI=17	●
1m	5'			BROWN CLAYEY SAND	SC (A-4)	4	17 14 18	-200-37% LL=26 PI=8	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-26-97

BORING NO.: BL - 4 BORING LOCATION: STA. 22+00 (39.8' NORTH OF ℄) ELEVATION: 189.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			BROWN SILTY SAND	SM (A-4)	3	12 17	-200-42% LL=27 PI=4	●
					SM (A-4)	6	19 19 20	-200-45%	●
2m									
3m	10'								
4m									
5m	15'								
6m	20'								
7m									
8m	25'								
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-26-97

BORING NO.: BL - 5 BORING LOCATION: STA. 23+00 (36.8' SOUTH OF ℄) ELEVATION: 192.6'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN CLAYEY SAND	SC (A-6)		17	LL-34 -200-45% PI-14	
1m				BROWN SILTY SAND	SM (A-4)	11	16 13		●
	5'			TAN SITLY SAND	SM (A-2-4)	6	7 6	-200-15%	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-26-97

BORING NO.: BL - 7 BORING LOCATION: STA. 25+00 (37.2' SOUTH OF ℄) ELEVATION 186.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			BROWN CLAYEY SAND	SC (A-6)	14	14 17 16	-200-36% LL=27 PI=11	●
					SC (A-6)	11	14 14	-200-39% LL=29 PI=11	●
2m									
3m	10'								
4m									
5m	15'								
6m	20'								
7m									
8m	25'								
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-26-97

BORING NO.: BL - 8 BORING LOCATION: STA. 26+00 (36.0' NORTH OF ℄) ELEVATION 183.3'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN SILTY SAND	SM (A-2-4)		16	-200-32%	
1m	5'			BROWN CLAYEY SAND	SC (A-6)	6	16	-200-42% LL=29 PI=14	●
							24		
					SC (A-6)	9	28	-200-36%	
							55		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-28-97

BORING NO.: BL - 9 BORING LOCATION: STA. 27+00 (30.8' SOUTH OF C) ELEVATION: 183.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				REDDISH BROWN SILTY SAND	SM (A-2-4)	9	16 15 17	-200-34% -200-33%	●
	5'			RED CLAYEY SAND	SC (A-6)	4	22 22	LL=27 -200-49% PI=17	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 8-2-96

BORING NO.: BL - 10 BORING LOCATION: STA. 28+00 (29.1' NORTH OF ℄) ELEVATION 180.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	10	13	-200-37%	
							18	ORG.-2.3%	●
					SM (A-4)		20	-200-48% LL-27 PI-10	
						6	18		
							17		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY. FLORIDA DATE: 2-28-97

BORING NO.: BL - 12 BORING LOCATION: STA. 30+00 (25.7' NORTH OF ℄) ELEVATION 178.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
					SM		13	-200-34%	
1m				REDDISH GRAY SILTY SAND	(A-2-4)	8	13	ORG.-2.0%	●
							13		
					SM		12		
	5'				(A-2-4)	8	10	-200-28%	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN. INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS. INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-28-97

BORING NO.: BL - 13 BORING LOCATION: STA. 31+00 (19.8' SOUTH OF ℄) ELEVATION 176.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				REDDISH BROWN SILTY SAND	SM (A-2-4)	12	13 14 11	-200-34% -200-27%	●
	5'								
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-28-97

BORING NO.: BL - 14 BORING LOCATION: STA. 32+00 (19.3' NORTH OF ℄) ELEVATION 173.1'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
					SM (A-2-4)		12	-200-32%	
1m				REDDISH BROWN SILTY SAND		7	12		●
	5'				SM (A-2-4)		13	-200-32%	
2m							13		
						10	12	-200-28%	●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-28-97

BORING NO.: BL - 15 BORING LOCATION: STA. 33+00 (18.3' SOUTH OF ℄) ELEVATION 167.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN CLAYEY SAND	SC (A-4)		14	LL-26 -200-36% PI-10	
1m				REDDISH BROWN SILTY SAND	SM (A-2-4)	9	11		●
							9		
	5'				SM (A-2-4)		7	-200-18%	
2m						18	6		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-28-97

BORING NO.: BL - 17 BORING LOCATION: STA. 35+00 (18.0' SOUTH OF ℄) ELEVATION: 157.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN CLAYEY SAND	SC (A-4)	8	16 18	-200-40% LL-29 PI-8	●
1m	5'			BROWN SILTY SAND	SM (A-2-4)	11	17 14 14		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-28-97

BORING NO.: BL - 18 BORING LOCATION: STA. 36+00 (16.0' NORTH OF ℄) ELEVATION 152.5'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN SILTY SAND	SM (A-2-4)	13	11 11		●
1m	5'			BROWN CLAYEY SAND	SC (A-4)	8	16 15 15	-200-38% LL=26 PI=7	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-28-97

BORING NO.: BL - 19 BORING LOCATION: STA. 37+00 (18.2' SOUTH OF ℄) ELEVATION 149.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN SILTY SAND	SM (A-2-4)	7	9		
1m					SM (A-2-4)		10		
							11		
	5'						13		
				REDDISH BROWN CLAYEY SAND	SC (A-4)	5	14	-200-36% LL-24 PI-6	
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 2-28-97

BORING NO.: BL - 20 BORING LOCATION: STA. 38+00 (14.7' NORTH OF ℄) ELEVATION: 147.1'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-2-4)	9	12	-200-25%	●
							9		
							12		
					SM (A-2-4)		13		
2m						4	15		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 23 BORING LOCATION: STA. 41+00 (17.0' SOUTH OF ℄) ELEVATION 145.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)	4	9 12		●
1m	5'			REDDISH BROWN CLAYEY SAND	SC (A-4)	7	14 18 16	-200-38% LL=27 PI=8	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 24 BORING LOCATION: STA. 42+00 (16.8' NORTH OF ℄) ELEVATION 146.5'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				BROWN SILTY SAND	SM (A-2-4)	8	7 4 23		●
	5'			REDDISH BROWN SILTY SAND	SM (A-4)	8	6 24	LL=29 -200-36% PI-6	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 25 BORING LOCATION: STA. 43+00 (14.8' SOUTH OF ℄) ELEVATION 146.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN CLAYEY SAND	SC (A-4)	6	12 15 23	-200-39% LL=25 PI=7	●
2m					SC (A-4)	8	16 15		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 27 BORING LOCATION: STA. 45+00 (17.0' SOUTH OF ℄) ELEVATION 138.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	6	18 19 19	-200-44% LL-30 PI-7	●
					SM (A-4)	10	15 14		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 28 BORING LOCATION: STA. 46+00 (17.4' NORTH OF ℄) ELEVATION 135.3'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				BROWN SILTY SAND	SM (A-2-4)	8	11 10 13		●
	5'			REDDISH BROWN CLAYEY SAND	SC (A-6)	10	15 14	LL=31 -200=40% PI=12	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 29 BORING LOCATION: STA. 47+00 (17.8' SOUTH OF ℄) ELEVATION: 130.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)	5	8 17		●
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)		18 15 14	-200-40% LL=30 PI=7	
2m									
3m	10'								
4m									
5m	15'								
6m	20'								
7m									
8m	25'								
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 30 BORING LOCATION: STA. 48+00 (15.3' NORHT OF ℄) ELEVATION: 129.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				BROWN SILTY SAND	SM (A-2-4)	4	11 12 13		●
	5'			BROWN CLAYEY SAND	SC (A-4)	7	16 16	-200-39% LL-27 PI-8	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 32 BORING LOCATION: STA. 50+00 (16.8' NORTH OF ℄) ELEVATION: 125.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-2-4)	5	12 10 13	-200-32%	●
					SM (A-2-4)	5	20 20	-200-31%	●
2m									
3m	10'								
4m									
5m	15'								
6m	20'								
7m									
8m	25'								
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 33 BORING LOCATION: STA. 51+00 (16.2' SOUTH OF ℄) ELEVATION 122.5'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN SILTY SAND	SM (A-2-4)		13		
1m				RED CLAYEY SAND	SC (A-6)	4	16		●
							18		
	5'				SC (A-6)	5	19	LL=38 -200=38% PI=12	
							17		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 34 BORING LOCATION: STA. 52+00 (16.0' NORTH OF ℄) ELEVATION 119.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				RED SILTY SAND	SM (A-4)		14 15		
1m									
	5'								
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-3-97

BORING NO.: BL - 35 BORING LOCATION: STA. 53+00 (15.4' SOUTH OF ℄) ELEVATION 116.3'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			RED SILTY SAND	SM (A-4)	6	18	-200-43% $LL = 33$ $PI = 5$	●
					SM (A-4)	9	18 15 14 12		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-5-97

BORING NO.: BL - 37 BORING LOCATION: STA. 55+00 (15.0' SOUTH OF ℄) ELEVATION: 107.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-2-4)	6	9 11 16	-200-25%	●
					SM (A-2-4)	10	14 13		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								•
10m									
	35'								

• D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-5-97

BORING NO.: BL - 38 BORING LOCATION: STA. 56+00 (16.8' NORTH OF ℄) ELEVATION: 100.6'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN SILTY SAND	SM (A-2-4)	3	13 14		●
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	8	19 15 14	-200=37% $LL = 26$ $PI = 5$	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-5-97

BORING NO.: BL - 39 BORING LOCATION: STA. 57+00 (16.8' SOUTH OF ℄) ELEVATION 96.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-2-4)	5	9 13 18		●
					SM (A-2-4)	7	12 14	-200=32% $LL = 22$ $PI = 3$	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-5-97

BORING NO.: BL - 40 BORING LOCATION: STA. 58+00 (18.7' NORTH OF ℄) ELEVATION 92.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	4	12 14 16		●
2m					SM (A-4)	5	16 13	-200=36% LL - 25 PI - 4	●
3m	10'								
4m									
5m	15'								
6m									
7m	20'								
8m									
9m	25'								
10m	30'								
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-28-97

BORING NO.: BL - 42 BORING LOCATION: STA. 60+00 (18.0' NORTH OF ℄) ELEVATION 85.2'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)		10	-200=26%	
				REDDISH BROWN SILTY SAND	SM (A-4)	7	16	-200=47% LL - 29 PI - 5	●
1m				BROWN SILTY SAND	SM (A-2-4)		8		
	5'						7	-200=18%	
2m						4	6		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

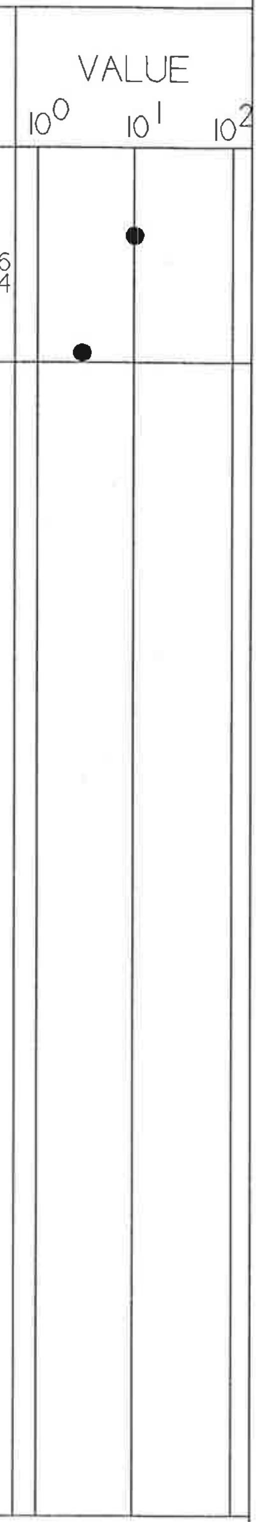
PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) — PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 — SITE LOCATION: LEON COUNTY, FLORIDA — DATE: 3-28-97

BORING NO.: BL - 43 — BORING LOCATION: STA. 61+00 (18.0' SOUTH OF ℄) — ELEVATION 83.1'

DEPTH (METER / FEET)	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE
0–5'			BROWN SILTY SAND	SM (A-2-4) SM (A-2-4)	10 4	9 8 16 10 10	-200=34% LL - 26 PI = 4	

Depth scale: 1m, 2m, 3m, 4m, 5m, 6m, 7m, 8m, 9m, 10m; 5', 10', 15', 20', 25', 30', 35'



* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-28-97

BORING NO.: BL - 44 BORING LOCATION: STA. 62+00 (17.0' NORTH OF ℄) ELEVATION 82.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				BROWN SILTY SAND	SM (A-2-4)	3	11	-200=24%	●
	5'				SM (A-2-4)		10		
							11		
2m				RED CLAYEY SAND	SC (A-6)	4	15		
							22	-200-39% LL = 31 PI = 14	●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-28-97

BORING NO.: BL - 45 BORING LOCATION: STA. 63+00 (18.0' SOUTH OF ℄) ELEVATION 81.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			BROWN SILTY SAND	SM (A-2-4)	4	10	-200=24%	●
					SM (A-2-4)	10	13 15 16 10		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-28-97

BORING NO.: BL - 47 BORING LOCATION: STA. 65+00 (12.8' SOUTH OF ℄) ELEVATION 82.6'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN CLAYEY SAND	SC (A-4)		13	-200=46% LL = 26 PI = 7	
1m	5'			BROWN SILTY SAND	SM (A-2-4)	3	10		●
							12		
					SM (A-2-4)		13		
2m						9	20		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-28-97

BORING NO.: BL - 48 BORING LOCATION: STA. 66+00 (15.0' NORTH OF ℄) ELEVATION 82.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)	5	10 12		●
1m	5'			BROWN SILTY SAND	SM (A-4)	6	15 18 20	-200=36% LL = 23 PI = 4	●
2m									
3m	10'								
4m									
5m	15'								
6m	20'								
7m									
8m	25'								
9m	30'								
10m	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-28-97

BORING NO.: BL - 49 BORING LOCATION: STA. 66+94 (20.0' SOUTH OF ℄) ELEVATION 82.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			BROWN SILTY SAND	SM (A-2-4)	10	10	-200=26%	●
							11		
							14		
					SM (A-2-4)		7		
2m						13	8		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-28-97

BORING NO.: BL - 50 BORING LOCATION: STA. 68+00 (17.1' NORTH OF $\mathcal{L}$) ELEVATION 84.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			BROWN SILTY SAND	SM (A-2-4)	5	8 6	-200=16%	●
					SM (A-2-4)	10	8 7		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-7-97

BORING NO.: BL - 51 BORING LOCATION: STA. 69+00 (17.2' SOUTH OF ℄) ELEVATION 83.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			BROWN SILTY SAND	SM (A-2-4)	8	11		●
							11		
							6	-200-14%	
					SM (A-2-4)	4	12		
2m							10		●
					SM (A-2-4)	3	11		
							12		●
	▼						23		
3m	10'				SM (A-2-4)		20 21	-200=29%	
4m	15'								
5m									
6m	20'								
7m	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-28-97

BORING NO.: BL - 52 BORING LOCATION: STA. 70+00 (22.3' NORTH OF ℄) ELEVATION 86.2'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			BROWN SILTY SAND	SM (A-2-4)	3	9 10 12	-200=24% ORG=1.9%	●
					SM (A-2-4)		11 16		
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-28-97

BORING NO.: BL - 53 BORING LOCATION: STA. 71+00 (18.6' SOUTH OF ℄) ELEVATION 86.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)		11		
1m				ORANGE CLAYEY SAND	SC (A-6)	3	17	-200=42% LL - 28 PI - 14	●
	5'						18		
					SC (A-6)	9	19		
2m							18		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-31-97

BORING NO.: BL - 54 BORING LOCATION: STA. 72+00 (15.3' NORTH OF ℄) ELEVATION 92.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)		11		
1m	5'			ORANGE CLAYEY SAND	SC (A-6)	3	16		●
							16		
					SC (A-6)		17	-200=49% LL = 33 PI = 18	
2m						7	16		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-31-97

BORING NO.: BL - 55 BORING LOCATION: STA. 73+06 (18.0' SOUTH OF ℄) ELEVATION 97.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)	3	10 12		●
1m	5'			ORANGE CLAYEY SAND	SC (A-6) SC (A-6)	8	15 19 17	-200=49% LL = 31 PI = 16	●
2m									
3m	10'								
4m									
5m	15'								
6m	20'								
7m									
8m	25'								
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-7-97

BORING NO.: BL - 56 BORING LOCATION: STA. 74+00 (25.3' NORTH OF ℄) ELEVATION 103.5'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				BROWN SILTY SAND	SM (A-2-4)	5	8	-200=26%	●
					SM (A-2-4)		11		
	5'						9		
2m				BROWN SILTY SAND	SM (A-4)	7	9		●
							13		
						10	13	-200=36%	
					SM (A-4)		15		●
3m	10'						14		
							16		
4m							15		
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-31-97

BORING NO.: BL - 57 BORING LOCATION: STA. 75+00 (14.0' SOUTH OF ℄) ELEVATION: 108.5'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN SILTY SAND	SM (A-2-4)	4	12 10		●
1m	5'			ORANGE CLAYEY SAND	SC (A-6) SC (A-6)	10	16 17 18	-200=49% LL = 29 PI = 12	●
2m									
3m	10'								
4m									
5m	15'								
6m	20'								
7m									
8m	25'								
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-31-97

BORING NO.: BL - 58 BORING LOCATION: STA. 76+00 (13.0' NORTH OF ℄) ELEVATION 113.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)	6	11 8		●
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4) SM (A-4)	6	16 15 13	-200=49% LL - 24 PI - 4	●
2m									
3m	10'								
4m									
15'									
5m									
6m	20'								
7m									
25'									
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-31-97

BORING NO.: BL - 59 BORING LOCATION: STA. 77+00 (18.0' SOUTH OF ℄) ELEVATION 115.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	4	13 14	-200-48% LL-27 PI-5	●
					SM (A-4)	6	13 14 12		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-31-97

BORING NO.: BL - 60 BORING LOCATION: STA. 78+00 (15.7' NORTH OF ℄) ELEVATION 119.2'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	4	11 16	-200=44%	●
					SM (A-4)	5	11 14 15		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-7-97

BORING NO.: BL - 61 BORING LOCATION: STA. 79+00 (17.3' SOUTH OF ℄) ELEVATION 122.1'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
					SM (A-4)		14	-200-39% LL=26 PI-5	
1m						6	12		●
					SM (A-4)		18		
	5'						17		
				REDDISH BROWN SILTY SAND		11	16		●
2m					SM (A-4)		17	-200=43%	
						12	17		●
					SM (A-4)		20		
3m	10'						21 21		
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-31-97

BORING NO.: BL - 62 BORING LOCATION: STA. 80+00 (16.9' NORTH OF ℄) ELEVATION 125.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				REDDISH BROWN CLAYEY SAND	SC (A-6)	4	11	-200=40% LL = 26 PI = 14	●
					SC (A-6)		14		
	5'			REDDISH BROWN SILTY SAND	SM (A-4)	6	17		
							13	-200=49% LL = 26 PI = 4	●
2m							16		
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-31-97

BORING NO.: BL - 63 BORING LOCATION: STA. 81+00 (12.8' SOUTH OF ℄) ELEVATION 131.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				REDDISH BROWN CLAYEY SAND	SC (A-6)	7	15	-200=47% LL = 32 PI = 14	●
					SC (A-6)		17		
	5'						17		
				REDDISH BROWN SILTY SAND	SM (A-2-4)	10	15		●
2m							13		
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-7-97

BORING NO.: BL - 66 BORING LOCATION: STA. 84+00 (16.0' NORTH OF ℄) ELEVATION 145.1'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				REDDISH BROWN SILTY SAND	SM (A-4)		10	-200-41% LL=27 PI=10	
					SM (A-4)	8	13		●
							15		
	5'						14		
2m				REDDISH BROWN SILTY SAND	SM (A-2-4)	16	14		●
							16	-200-34%	
						14	13		●
					SM (A-2-4)		14		
3m	10'						15		
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-4-97

BORING NO.: BL - 68 BORING LOCATION: STA. 86+00 (14.0' NORTH OF ℄) ELEVATION 149.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN CLAYEY SAND	SC (A-6)	8	13 17	-200-49% LL = 38 PI = 19	●
2m					SC (A-6)	14	20 19 18		●
3m	10'								
4m									
5m	15'								
6m	20'								
7m									
8m	25'								
9m	30'								
10m	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-4-97

BORING NO.: BL - 69 BORING LOCATION: STA. 87+00 (15.3' SOUTH OF ℄) ELEVATION 146.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				REDDISH BROWN SILTY SAND	SM (A-2-4) SM (A-2-4)	4	8 10 13	-200=29%	●
	5'			REDDISH BROWN SILTY SAND	SM (A-4)	11	13 13	-200=40% LL - 23 PI - 5	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-4-97

BORING NO.: BL - 70 BORING LOCATION: STA. 88+00 (13.9' NORTH OF ℄) ELEVATION 148.3'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)	2	4 5 16		●
1m	5'			BROWN SILTY SAND	SM (A-4)	3	20 23	* -200=40%	●
2m									
3m	10'								
4m									
5m	15'								
6m	20'								
7m									
8m	25'								
9m	30'								
10m	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-7-97

BORING NO.: BL - 71 BORING LOCATION: STA. 89+00 (20.3' SOUTH OF ℄) ELEVATION 147.5'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
					SC (A-6)		17		
1m						10	18	-200=47% LL=34 PI=12	●
					SC (A-6)		19		
	5'			BROWN AND TAN CLAYEY SAND			18		
						18	16		●
2m					SC (A-6)		24		
						18	15		●
					SC (A-6)		24	-200=49% LL=35 PI=13	
3m	10'						24/12		
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-4-97

BORING NO.: BL - 72 BORING LOCATION: STA. 90+00 (15.8' NORTH OF ℄) ELEVATION 148.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN CLAYEY SAND	SC (A-6)		13	-200=39% LL = 24 PI = 11	
1m				BROWN SILTY SAND	SM (A-2-4)	12	6 9		●
	5'			BROWN SILTY SAND	SM (A-4)	10	17 18	-200=49% LL = 37 PI = 10	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-4-97

BORING NO.: BL - 73 BORING LOCATION: STA. 91+00 (16.6' SOUTH OF ℄) ELEVATION 147.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				BROWN SILTY SAND	SM (A-2-4)		9		
					SM (A-2-4)	8	8		●
	5'			REDDISH BROWN SILTY SAND	SM (A-4)	5	11 18 21	-200-40% LL = 24 PI = 4	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-4-97

BORING NO.: BL - 74 BORING LOCATION: STA. 92+00 (17.0' NORTH OF ℄) ELEVATION 147.6'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN SILTY SAND	SM (A-4)		11		
1m				BROWN SILTY SAND	SM (A-2-4)	15	10		●
	5'			REDDISH BROWN PLASTIC SILT	MH (A-7-5)		13		
2m							20	-200-58% LL = 50 PI = 20	
					MH (A-7-5)	12	18		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-4-97

BORING NO.: BL - 75 BORING LOCATION: STA. 93+00 (16.6' SOUTH OF ℄) ELEVATION 146.3'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				BROWN SILTY SAND	SM (A-2-4)	5	9		
							7		
					SM (A-2-4)		6		
	5'						9		
				REDDISH BROWN SILTY SAND	SM (A-4)	7	15	-200-36% LL = 22 PI = 3	
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-7-97

BORING NO.: BL - 76 BORING LOCATION: STA. 94+00 (19.2' NORTH OF ℄) ELEVATION 145.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				BROWN SILTY SAND	SM (A-4)	8	10 10 12 14	-200-38% LL=23 PI=4	●
	5'				SM (A-4)				
2m				TAN SILTY SAND	SM (A-2-4)	10 22	14 16 14 12	-200-34%	● ●
3m	10'				SM (A-2-4)		9 11		
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-4-97

BORING NO.: BL - 77 BORING LOCATION: STA. 95+00 (20.0' SOUTH OF ℄) ELEVATION 141.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				BROWN SILTY SAND	SM (A-2-4)	7	6 7 5		●
	5'				SM (A-2-4)	5	7 12	-200=34%	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-4-97

BORING NO.: BL - 78 BORING LOCATION: STA. 96+00 (13.8' NORTH OF ℄) ELEVATION 139.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)	5	10		
1m					SM (A-2-4)		9		●
							9		
	5'			REDDISH BROWN SILTY SAND	SM (A-4)	6	17	-200-38% LL = 24 PI = 4	
2m							15		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-9-97

BORING NO.: BL - 79 BORING LOCATION: STA. 97+00 (18.8' SOUTH OF ℄) ELEVATION 138.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)		8	-200=14%	
1m				REDDISH BROWN SILTY SAND	SM (A-4)	8	15 14	-200=45%	●
	5'			REDDISH BROWN CLAYEY SAND	SC (A-6)	7	18 17	-200=49% LL = 30 PI = 11	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-9-97

BORING NO.: BL - 80 BORING LOCATION: STA. 98+00 (16.7' NORTH OF ℄) ELEVATION 135.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-4)	10	14 16	-200=43% LL - 28 PI - 6	●
1m				REDDISH BROWN SILTY SAND	SM (A-2-4)		11	-200=32%	
	5'				SM (A-2-4)	9	8 14		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-9-97

BORING NO.: BL - 81 BORING LOCATION: STA. 99+00 (14.0' SOUTH OF ℄) ELEVATION 135.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			BROWN SILTY SAND	SM (A-2-4)	4	9 7	PI=22	●
					SM (A-2-4)	8	9 13 13		●
2m				REDDISH BROWN SILTY SAND	SM (A-4)	16	16 14		●
3m	10'				SM (A-4)		16 17 15	-200=36% LL=27 PI=6	
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-9-97

BORING NO.: BL - 82 BORING LOCATION: STA. 100+00 (16.0' NORTH OF ℄) ELEVATION 133.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN CLAYEY SAND	SC (A-6)		15	-200-49% LL - 28 PI - 11	
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	7	10		●
							10		
					SM (A-4)	4	19	ORG=2.1%	
							21	-200-42% LL=28 PI=4	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-9-97

BORING NO.: BL - 83 BORING LOCATION: STA. 101+00 (17.0' SOUTH OF ℄) ELEVATION 134.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				REDDISH BROWN SILTY SAND	SM (A-2-4)	8	6 10 12	-200=34%	●
	5'				SM (A-2-4)	5	12 12		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-14-97

BORING NO.: BL - 84 BORING LOCATION: STA. 102+00 (16.0' NORTH OF ℄) ELEVATION: 132.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)	7	10 11	-200-29%	●
1m				REDDISH BROWN CLAYEY SAND	SC (A-2-6)		12 17		
	5'			REDDISH BROWN CLAYEY SAND	SC (A-6)	11	19	-200-49% LL - 38 PI - 13	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-14-97

BORING NO.: BL - 85 BORING LOCATION: STA. 103+00 (18.0' SOUTH OF ℄) ELEVATION: 130.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)		8		
1m				REDDISH BROWN CLAYEY SAND	SC (A-6)	5	14	-200=49% LL = 34 PI = 11	●
							16		
	5'								
2m					SC (A-6)	11	11	-200-49%	●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-14-97

BORING NO.: BL - 86 BORING LOCATION: STA. 104+00 (15.4' NORTH OF ℄) ELEVATION 131.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
					SC (A-6)		14		
1m						9	17	-200=47% LL=35 PI=12	●
					SC (A-6)		17		
	5'			RED CLAYEY SAND			13		
						14	13		●
2m					SC (A-6)		12		
						16	12	-200=40% LL=36 PI=12	●
					SC (A-6)		11		
3m	10'						10 12		
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-14-97

BORING NO.: BL - 87 BORING LOCATION: STA. 105+00 (14.6' SOUTH OF ℄) ELEVATION 131.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	7	14 15 16	-200-36% LL - 29 PI - 7	●
					SM (A-4)	9	15 15		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-14-97

BORING NO.: BL - 88 BORING LOCATION: STA. 106+00 (16.5' NORTH OF ℄) ELEVATION 128.6'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				REDDISH BROWN CLAYEY SAND	SC (A-6)	7	13	-200-41% LL = 29 PI = 11	●
					SC (A-6)		14		
	5'			REDDISH BROWN SILTY SAND	SM (A-4)	8	13		●
2m							13		
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-14-97

BORING NO.: BL - 89 BORING LOCATION: STA. 107+00 (16.4' SOUTH OF ℄) ELEVATION 128.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				REDDISH BROWN CLAYEY SAND	SC (A-6)		13	-200-42% LL = 26 PI = 11	
					SC (A-6)	4	13		●
							14		
	5'			REDDISH BROWN SILTY SAND	SM (A-4)		14		
2m						12	14		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-14-97

BORING NO.: BL - 90 BORING LOCATION: STA. 108+00 (15.0' NORTH OF ℄) ELEVATION 124.6'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN CLAYEY SAND	SC (A-6)	6	17 18		●
					SC (A-6)	11	17 15 14	-200-41% LL = 32 PI = 14	●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-14-97

BORING NO.: BL - 91 BORING LOCATION: STA. 109+00 (14.3' SOUTH OF ℄) ELEVATION: 123.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				RED CLAYEY SAND	SC (A-6)		16		
					SC (A-6)	4	17	-200-36% LL=29 PI=13	●
							17		
	5'						15	-200-34% LL=29 PI=6	
2m				RED SILTY SAND	SM (A-2-4)	8	14		●
							13		
						12	12		●
					SM (A-2-4)		12		
3m	10'						13		
							13		
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-18-97

BORING NO.: BL - 92 BORING LOCATION: STA. 110+00 (16.0' NORTH OF ℄) ELEVATION 118.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				RED SILTY SAND	SM (A-2-4)		14	-200-30%	
1m	5'			RED CLAYEY SAND	SC (A-6)	3 7	17 18 15 14	-200-38% LL-36 PI-14	● ●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-18-97

BORING NO.: BL - 93 BORING LOCATION: STA. 111+00 (14.0' SOUTH OF ℄) ELEVATION 116.9'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			RED SILTY SAND	SM (A-2-4)	6	14 15	-200-33% LL=29 PI=5	●
					SM (A-2-4)	8	14 15 15		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-18-97

BORING NO.: BL - 94 BORING LOCATION: STA. 112+00 (17.2' NORTH OF ℄) ELEVATION 111'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			RED CLAYEY SAND	SC (A-6)	5	15 16 17	-200-43% LL-34 PI-12	●
					SC (A-6)	8	15 14		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-18-97

BORING NO.: BL - 95 BORING LOCATION: STA. 113+00 (16.3' SOUTH OF ℄) ELEVATION: 109.4'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				RED CLAYEY SAND	SC (A-6)		12		
				BROWN SILTY SAND	SM (A-2-4)	*8	8		●
1m				REDDISH BROWN SILTY SAND	SM (A-4)		14	-200-40% LL-31 PI-7	
	5'			REDDISH BROWN SILTY SAND	SM (A-2-4)	11	16 15		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-18-97

BORING NO.: BL - 96 BORING LOCATION: STA. 114+00 (14.5' NORTH OF ℄) ELEVATION 105.3'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	4	11	-200-33% LL=31 PI=7	●
							11		
							13		
					SM (A-4)		13		
						7	13		●
2m				RED SILTY SAND	SM (A-2-4)	12	13	-200=32%	
							13		
							13		●
3m	10'				SM (A-2-4)		13		
							13		
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-18-97

BORING NO.: BL - 97 BORING LOCATION: STA. 115+00 (15.5' SOUTH OF ℄) ELEVATION 101.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			RED CLAYEY SAND	SC (A-6)	5	13 14 13	-200-42% LL-29 PI-11	●
					SC (A-6)	11	12 13		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-18-97

BORING NO.: BL - 98 BORING LOCATION: STA. 116+00 (17.0' NORTH OF ℄) ELEVATION 96.2'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m				RED CLAYEY SAND	SC (A-6)	6	12 13* 13	-200-42% LL-30 PI-11	●
	5'			RED SILTY SAND	SM (A-2-4)	11	13 12		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-21-97

BORING NO.: BL - 99 BORING LOCATION: STA. 117+00 (15.8' SOUTH OF ℄) ELEVATION 92.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				REDDISH BROWN SILTY SAND	SM (A-4)		13	LL-26 PI-5 -200-37%	
1m				REDDISH BROWN SILTY SAND	SM (A-2-4)	8	14		●
							12		
	5'						12	-200-32%	
2m						14	12		●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-21-97

BORING NO.: BL - 100 BORING LOCATION: STA. 118+00 (17.8' NORTH OF ℄) ELEVATION 87.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	9	11 13 13	-200-36% LL-25 PI-4	●
					SM (A-4)	10	15 15		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-21-97

BORING NO.: BL - 101 BORING LOCATION: STA. 119+00 (16.8' SOUTH OF ℄) ELEVATION 84.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)		7		
1m				RED CLAYEY SAND	SC (A-6)	7	10 10	-200-39% LL=29 PI=11	●
	5'						6		
2m				REDDISH BROWN SILTY SAND	SM (A-2-4)	12	8 8	-200-27%	●
					SM (A-2-4)	12	8 11		●
3m	10'						10 9		
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-21-97

BORING NO.: BL - 102 BORING LOCATION: STA. 120+00 (14.7' NORTH OF ℄) ELEVATION 80.1'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	VALUE 10^0 10^1 10^2
1m	5'			REDDISH BROWN CLAYEY SAND	SC (A-6)	6	12 13	-200-41% LL-27 PI-12	●
					SC (A-6)	9	14 14		●
2m									
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

UTILITY BORING LOGS

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 8-2-96

BORING NO.: BL - 1 BORING LOCATION: STA. 19+10 (℄N CENTERLINE) ELEVATION 186.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
1m				REDDISH BROWN CLAYEY SAND	SC (A-6)		21	-200=44% LL=37 PI=12	
	5'								
2m					SC (A-6)	15	18	(8-7-8)	●
				BROWN PLASTIC SILT	MH (A-7-5)	14	27	(7-6-8) -200=71% LL=64 PI=21	●
3m	10'			REDDISH BROWN SILTY SAND	SM (A-2-4)	15	27	(9-7-8)	●
4m					SM (A-2-4)	13	11	(5-5-8) -200=24%	●
	15'								
5m					SM (A-2-4)	13	10	(6-6-7)	●
6m	20'				SM (A-2-4)	13	14	(7-6-7) -200=17%	●
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* N VALUE FOR STANDARD PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-7-97

BORING NO.: BL - 6 BORING LOCATION: STA. 24+00 (46.6' NORTH OF ℄) ELEVATION 186.3'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
				REDDISH BROWN CLAYEY SAND	SC (A-2-6)	10	17	(5-5-5) -200=33% LL-33 PI-14	●
1m	5'								
2m					SC (A-2-6)	11	23	(4-5-6)	●
3m	10'			TAN SILTY SAND	SM (A-2-4)	7	8	(3-3-4) -200=13%	●
4m									
5m	15'				SM (A-2-4)	13	8	(4-6-7)	●
6m	20'				SM (A-2-4)	13	8	(6-6-7)	●
7m									
8m	25'								
9m	30'								
10m									
	35'								

* N VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-7-97

BORING NO.: BL - 11 BORING LOCATION: STA. 29+00 (25.3' SOUTH OF ℄) ELEVATION 180.5'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
					SM (A-2-4)	8	14	(5-3-5) -200=24%	
1m									
	5'				SM (A-2-4)	10	12	(3-5-5) -200=29%	
2m									
3m	10'			TAN SILTY SAND	SM (A-2-4)	8	4	(3-4-4)	
4m									
	15'				SM (A-2-4)	10	6	(4-5-5) -200=13%	
5m									
6m	20'				SM (A-2-4)	10	7	(5-5-5)	
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* N VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-7-97

BORING NO.: BL - 16 BORING LOCATION: STA. 34+00 (17.4' NORTH OF ℄) ELEVATION 162.2'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
					SM (A-2-4)	9	13	(3-4-5) -200-15% LL - 23 PI - 4	●
1m	5'				SM (A-2-4)	11	15	(4-5-6)	●
2m				BROWN SILTY SAND					
3m	10'				SM (A-2-4)	16	8	(7-7-9) -200-13%	●
4m	15'				SM (A-2-4)	28	7	(8-13-15)	●
5m									
6m	20'			BROWN AND GRAY PLASTIC SILT	MH (A-7-5)	21	58	(6-9-12) -200-89% LL - 137 PI - 94	●
7m									
8m	25'								
9m	30'								
10m									
	35'								

* N VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-7-97

BORING NO.: BL - 21 BORING LOCATION: STA. 39+00 (16.8' SOUTH OF ℄ ELEVATION 146.0'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
				REDDISH BROWN SILTY SAND	SM (A-2-4)	9	9	(3-4-5)	
1m	5'			REDDISH BROWN SILTY SAND	SM (A-4)	3	23	(1-1-2) -200=44% LL = 40 PI = 5	
2m									
3m	10'				SM (A-4)	4	13	(2-2-2)	
4m									
5m	15'				SM (A-4)	11	15	(3-5-6) -200=44% LL = 28 PI = 7	
6m	20'			REDDISH BROWN SILTY SAND	SM (A-2-4)	10	9	(5-5-5)	
7m									
8m	25'								
9m	30'								
10m									
	35'								

* N VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-7-97

BORING NO.: BL - 26 BORING LOCATION: STA. 44+00 (16.4' NORTH OF ℄) ELEVATION: 143.5'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
					SM (A-2-4)	15	7	(11-7-8)	●
1m									
	5'				SM (A-2-4)	9	14	(3-4-5) -200=32% LL = 29 PI = 7	●
2m				BROWN SILTY SAND					
3m	10'				SM (A-2-4)	8	10	(3-3-5)	●
4m									
	15'				SM (A-2-4)	16	11	(7-8-8) -200=23%	●
5m				BROWN PLASTIC SILT	MH (A-7-5)		16	-200=52%	
6m	20'			TAN SILTY SAND	SM (A-2-4)	14	15	(5-6-8)	●
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* N VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-7-97

BORING NO.: BL - 31 BORING LOCATION: STA. 49+00 (15.9' SOUTH OF ℄) ELEVATION 126.5'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)	5	8	(2-2-3)	●
1m				REDDISH BROWN CLAYEY SAND	SC (A-6)		13	-200=38%	
	5'			REDDISH BROWN SILTY SAND	SM (A-2-4)	5	14	(2-2-3) -200=31% LL = 23 PI = 4	●
2m									
3m	10'				SM (A-2-4)	9	7	(5-4-5)	●
4m									
	15'				SM (A-2-4)	16	6	(9-8-8)	●
5m									
6m	20'				SM (A-2-4)	20	11	(8-9-11) -200-19%	●
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* N VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-7-97

BORING NO.: BL - 36 BORING LOCATION: STA. 54+00 (18.0' NORTH OF ℄) ELEVATION: 111.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
				REDDISH BROWN SILTY SAND	SM (A-2-4)	13	9	(5-7-6)	●
1m				REDDISH BROWN CLAYEY SAND					
	5'				SC (A-2-6)	7	15	(3-3-4) -200=34% LL = 25 PI = 15	●
2m									
3m	10'				SM (A-2-4)	6	11	(3-3-3) -200-24%	●
4m				TAN SILTY SAND					
	15'				SM (A-2-4)	10	10	(5-4-6)	●
5m									
6m	20'				SM (A-2-4)	32	4	(10-13-19) -200=13%	●
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* N VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-7-97

BORING NO.: BL - 41 BORING LOCATION: STA. 59+00 (18.3' SOUTH OF ℄) ELEVATION 88.7'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
				BROWN SILTY SAND	SM (A-2-4)	6	6	(3-3-3) -200=23%	•
1m	5'								
2m				TAN SILTY SAND	SM (A-4)	4	17	(2-2-2) -200=37% LL = 35 PI = 10	•
3m	10'				SM (A-4)	13	13	(6-7-6)	•
4m		▼		TAN SILTY SAND					
5m	15'				SM (A-2-4)	9	21	(3-4-5) -200=31%	•
6m	20'			BROWN PLASTIC SILT	MH (A-7-5)	16	28	(4-7-9) -200=72% LL = 71 PI = 23	•
7m									
8m	25'								
9m	30'								
10m									
	35'								

• N VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-7-97

BORING NO.: BL - 46 BORING LOCATION: STA. 64+00 (19.2' NORTH OF ℄) ELEVATION: 81.8'

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
					SM (A-2-4)	7	10	(3-3-4)	●
1m	5'				SM (A-2-4)	4	17	(3-2-2) -200=28%	●
2m									
3m	10'			TAN SILTY SAND	SM (A-2-4)	2	19	(1-1-1) -200=22%	●
4m									
5m	15'				SM (A-2-4)	19	17	(6-8-11)	●
6m	20'				SM (A-2-4)	16	15	(10-7-9) -200=23%	●
7m									
8m	25'								
9m	30'								
10m									
	35'								

* N VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

CULVERT BORING LOGS

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 4-7-97

BORING NO.: C - 1 BORING LOCATION: STA. 62+62.8 (29.0' SOUTH OF ℄) ELEVATION

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	D	Wc %	OTHER DATA	D VALUE 10^0 10^1 10^2
1m				GRAY SILTY SAND	SM (A-2-4)	1	20 24 25	-200=24%	●
	5'			GRAY SILT	SC (A-2-6)	10	27 25 22		●
2m				GRAY AND TAN PLASTIC SILT	MH (A-7-5)	12	47 66	-200=87% LL = 118 PI = 35	●
3m	10'								
4m									
	15'								
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* D VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

EXPLORATION LOG

PROJECT DESCRIPTION: DESIGN OF BUCK LAKE ROAD (CR 1568) PAGE 1 OF 1

PROJECT NUMBER: 16-03-97 SITE LOCATION: LEON COUNTY, FLORIDA DATE: 3-7-97

BORING NO.: C - 2 BORING LOCATION: STA. 62+62.8 (17.0' NORTH OF ℄) ELEVATION

DEPTH METER	DEPTH FEET	SAMPLE	SYMBOLS	DESCRIPTION	USCS (AASHTO)	N	Wc %	OTHER DATA	N VALUE 10^0 10^1 10^2
					SM (A-2-4)	7	9	(2-3-4)	●
1m									
	5'			BROWN SILTY SAND	SM (A-2-4)	8	11	(5-4-4) -200=32% LL = 23 PI - 4	●
2m									
3m	10'				SM (A-2-4)	10	11	(3-5-5) -200=17%	●
4m									
	15'			GRAY CLAYEY SAND	SC (A-6)	18	17	(4-6-12) -200-39% LL = 33 PI - 11	●
5m									
6m	20'								
7m									
	25'								
8m									
9m	30'								
10m									
	35'								

* N VALUE FOR DYNAMIC PENETRATION TEST

PREPARED FOR: BASKERVILLE DONOVAN, INC.

PREPARED BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

APPENDIX C

SOIL CLASSIFICATION DATA

ROADWAY SOIL CLASSIFICATION DATA

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS

BUCK LAKE ROAD (CR 1568)

SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL - 2	0.3 - 0.5	1.0 - 1.5	12	100	100	98	81	33	27	24	13		SC	A-2-6
BL - 2	0.6 - 0.8	2.0 - 2.5	11										SC	A-2-6
BL - 2	0.9 - 1.1	3.0 - 3.5	15										SM	A-4
BL - 2	1.2 - 1.4	4.0 - 4.5	15	100	100	100	94	55	36	28	6		SM	A-4
BL - 2	1.5 - 1.7	5.0 - 5.5	17										SM	A-4
BL - 3	0.3 - 0.5	1.0 - 1.5	18	100	100	99	91	39	36	32	17		SC	A-6
BL - 3	0.6 - 0.8	2.0 - 2.5	17										SC	A-6
BL - 3	0.9 - 1.1	3.0 - 3.5	17	100	100	100	91	50	37	26	8		SC	A-4
BL - 3	1.2 - 1.4	4.0 - 4.5	14										SC	A-4
BL - 3	1.5 - 1.7	5.0 - 5.5	18										SC	A-4
BL - 4	0.3 - 0.5	1.0 - 1.5	12										SM	A-4
BL - 4	0.6 - 0.8	2.0 - 2.5	17	100	100	99	92	54	42	27	4		SM	A-4
BL - 4	0.9 - 1.1	3.0 - 3.5	19										SM	A-4
BL - 4	1.2 - 1.4	4.0 - 4.5	19										SM	A-4
BL - 4	1.5 - 1.7	5.0 - 5.5	20	100	100	99	94	57	45				SM	A-4
BL - 5	0.3 - 0.5	1.0 - 1.5	17	99	99	98	90	55	45	34	14		SC	A-6
BL - 5	0.6 - 0.8	2.0 - 2.5	16										SM	A-4
BL - 5	0.9 - 1.1	3.0 - 3.5	13										SM	A-4
BL - 5	1.2 - 1.4	4.0 - 4.5	7										SM	A-2-4
BL - 5	1.5 - 1.7	5.0 - 5.5	6	100	100	98	62	19	15				SM	A-2-4
BL - 7	0.3 - 0.5	1.0 - 1.5	14										SC	A-6
BL - 7	0.6 - 0.8	2.0 - 2.5	17	100	99	98	88	48	36	27	11		SC	A-6
BL - 7	0.9 - 1.1	3.0 - 3.5	16										SC	A-6
BL - 7	1.2 - 1.4	4.0 - 4.5	14										SC	A-6
BL - 7	1.5 - 1.7	5.0 - 5.5	14	100	100	99	91	50	39	29	11		SC	A-6
BL - 8	0.3 - 0.5	1.0 - 1.5	16	100	100	99	84	42	32				SM	A-2-4
BL - 8	0.6 - 0.8	2.0 - 2.5	16	99	99	98	91	52	42	29	14		SC	A-6
BL - 8	0.9 - 1.1	3.0 - 3.5	24										SC	A-6
BL - 8	1.2 - 1.4	4.0 - 4.5	28	100	100	98	86	48	36				SC	A-6
BL - 8	1.5 - 1.7	5.0 - 5.5	55										SC	A-6
BL - 9	0.3 - 0.5	1.0 - 1.5	16	100	100	99	90	47	34				SM	A-2-4
BL - 9	0.6 - 0.8	2.0 - 2.5	15										SM	A-2-4
BL - 9	0.9 - 1.1	3.0 - 3.5	17	100	99	98	86	45	33				SM	A-2-4
BL - 9	1.2 - 1.4	4.0 - 4.5	22										SC	A-6
BL - 9	1.5 - 1.7	5.0 - 5.5	22	100	100	100	93	60	49	27	17		SC	A-6
BL - 10	0.3 - 0.5	1.0 - 1.5	13	100	100	99	88	47	37				SM	A-4
BL - 10	0.6 - 0.8	2.0 - 2.5	18									2.3	SM	A-4
BL - 10	0.9 - 1.1	3.0 - 3.5	20	100	100	99	93	59	48	27	10		SM	A-4
BL - 10	1.2 - 1.4	4.0 - 4.5	18										SM	A-4
BL - 10	1.5 - 1.7	5.0 - 5.5	17										SM	A-4

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS
BUCK LAKE ROAD (CR 1568)
SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL - 12	0.3 - 0.5	1.0 - 1.5	13	100	100	98	87	45	34				SM	A-2-4
BL - 12	0.6 - 0.8	2.0 - 2.5	13									2.0	SM	A-2-4
BL - 12	0.9 - 1.1	3.0 - 3.5	13										SM	A-2-4
BL - 12	1.2 - 1.4	4.0 - 4.5	12										SM	A-2-4
BL - 12	1.5 - 1.7	5.0 - 5.5	10	100	99	97	75	33	28				SM	A-2-4
BL - 13	0.3 - 0.5	1.0 - 1.5	13	100	100	99	91	51	34				SM	A-2-4
BL - 13	0.6 - 0.8	2.0 - 2.5	14	100	98	97	95	40	27				SM	A-2-4
BL - 13	0.9 - 1.1	3.0 - 3.5	11										SM	A-2-4
BL - 14	0.3 - 0.5	1.0 - 1.5	12	100	100	98	82	41	32				SM	A-2-4
BL - 14	0.6 - 0.8	2.0 - 2.5	12										SM	A-2-4
BL - 14	0.9 - 1.1	3.0 - 3.5	13	100	100	99	86	42	32				SM	A-2-4
BL - 14	1.2 - 1.4	4.0 - 4.5	13										SM	A-2-4
BL - 14	1.5 - 1.7	5.0 - 5.5	12	100	100	98	82	37	28				SM	A-2-4
BL - 15	0.3 - 0.5	1.0 - 1.5	14	100	100	99	86	45	36	26	10		SC	A-4
BL - 15	0.6 - 0.8	2.0 - 2.5	11										SM	A-2-4
BL - 15	0.9 - 1.1	3.0 - 3.5	9										SM	A-2-4
BL - 15	1.2 - 1.4	4.0 - 4.5	7	100	100	99	73	23	18				SM	A-2-4
BL - 15	1.5 - 1.7	5.0 - 5.5	6										SM	A-2-4
BL - 17	0.3 - 0.5	1.0 - 1.5	16	100	100	99	89	50	40	29	8		SC	A-4
BL - 17	0.6 - 0.8	2.0 - 2.5	18										SC	A-4
BL - 17	0.9 - 1.1	3.0 - 3.5	17										SM	A-2-4
BL - 17	1.2 - 1.4	4.0 - 4.5	14										SM	A-2-4
BL - 17	1.5 - 1.7	5.0 - 5.5	14										SM	A-2-4
BL - 18	0.3 - 0.5	1.0 - 1.5	11										SM	A-2-4
BL - 18	0.6 - 0.8	2.0 - 2.5	11										SM	A-2-4
BL - 18	0.9 - 1.1	3.0 - 3.5	16										SC	A-4
BL - 18	1.2 - 1.4	4.0 - 4.5	15	100	100	99	91	50	38	26	7		SC	A-4
BL - 18	1.5 - 1.7	5.0 - 5.5	15										SC	A-4
BL - 19	0.3 - 0.5	1.0 - 1.5	9										SM	A-2-4
BL - 19	0.6 - 0.8	2.0 - 2.5	10										SM	A-2-4
BL - 19	0.9 - 1.1	3.0 - 3.5	11										SM	A-2-4
BL - 19	1.2 - 1.4	4.0 - 4.5	13										SM	A-2-4
BL - 19	1.5 - 1.7	5.0 - 5.5	14	100	100	99	91	47	36	24	6		SC	A-4
BL - 20	0.3 - 0.5	1.0 - 1.5	12										SM	A-2-4
BL - 20	0.6 - 0.8	2.0 - 2.5	9										SM	A-2-4
BL - 20	0.9 - 1.1	3.0 - 3.5	12	100	100	99	84	34	25				SM	A-2-4
BL - 20	1.2 - 1.4	4.0 - 4.5	13										SM	A-2-4
BL - 20	1.5 - 1.7	5.0 - 5.5	15										SM	A-2-4

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS
BUCK LAKE ROAD (CR 1568)
SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL - 22	0.3 - 0.5	1.0 - 1.5	9										SM	A-2-4
BL - 22	0.6 - 0.8	2.0 - 2.5	24	100	100	99	94	64	49	31	5		SM	A-4
BL - 22	0.9 - 1.1	3.0 - 3.5	15										SM	A-2-4
BL - 22	1.2 - 1.4	4.0 - 4.5	16										SM	A-2-4
BL - 22	1.5 - 1.7	5.0 - 5.5	16										SM	A-2-4
BL - 23	0.3 - 0.5	1.0 - 1.5	9										SM	A-2-4
BL - 23	0.6 - 0.8	2.0 - 2.5	12										SM	A-2-4
BL - 23	0.9 - 1.1	3.0 - 3.5	14										SC	A-4
BL - 23	1.2 - 1.4	4.0 - 4.5	18	100	100	100	93	48	38	27	8		SC	A-4
BL - 23	1.5 - 1.7	5.0 - 5.5	16										SC	A-4
BL - 24	0.3 - 0.5	1.0 - 1.5	7										SM	A-2-4
BL - 24	0.6 - 0.8	2.0 - 2.5	4										SM	A-2-4
BL - 24	0.9 - 1.1	3.0 - 3.5	23										SM	A-2-4
BL - 24	1.2 - 1.4	4.0 - 4.5	6										SM	A-4
BL - 24	1.5 - 1.7	5.0 - 5.5	24	100	100	99	91	46	36	29	6		SM	A-4
BL - 25	0.3 - 0.5	1.0 - 1.5	12										SC	A-4
BL - 25	0.6 - 0.8	2.0 - 2.5	15										SC	A-4
BL - 25	0.9 - 1.1	3.0 - 3.5	23	100	100	100	92	50	39	25	7		SC	A-4
BL - 25	1.2 - 1.4	4.0 - 4.5	16										SC	A-4
BL - 25	1.5 - 1.7	5.0 - 5.5	15										SC	A-4
BL - 27	0.3 - 0.5	1.0 - 1.5	18										SM	A-4
BL - 27	0.6 - 0.8	2.0 - 2.5	19	100	100	99	91	54	44	30	7		SM	A-4
BL - 27	0.9 - 1.1	3.0 - 3.5	19										SM	A-4
BL - 27	1.2 - 1.4	4.0 - 4.5	15										SM	A-4
BL - 27	1.5 - 1.7	5.0 - 5.5	14										SM	A-4
BL - 28	0.3 - 0.5	1.0 - 1.5	11										SM	A-2-4
BL - 28	0.6 - 0.8	2.0 - 2.5	10										SM	A-2-4
BL - 28	0.9 - 1.1	3.0 - 3.5	13										SM	A-2-4
BL - 28	1.2 - 1.4	4.0 - 4.5	15										SC	A-6
BL - 28	1.5 - 1.7	5.0 - 5.5	14	100	100	100	92	52	40	31	12		SC	A-6
BL - 29	0.3 - 0.5	1.0 - 1.5	8										SM	A-2-4
BL - 29	0.6 - 0.8	2.0 - 2.5	17										SM	A-2-4
BL - 29	0.9 - 1.1	3.0 - 3.5	18	100	100	99	90	51	40	30	7		SM	A-4
BL - 29	1.2 - 1.4	4.0 - 4.5	15										SM	A-4
BL - 29	1.5 - 1.7	5.0 - 5.5	14										SM	A-4
BL - 30	0.3 - 0.5	1.0 - 1.5	11										SM	A-2-4
BL - 30	0.6 - 0.8	2.0 - 2.5	12										SM	A-2-4
BL - 30	0.9 - 1.1	3.0 - 3.5	13										SM	A-2-4
BL - 30	1.2 - 1.4	4.0 - 4.5	16	100	100	100	91	51	39	27	8		SC	A-4
BL - 30	1.5 - 1.7	5.0 - 5.5	16										SC	A-4

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS
BUCK LAKE ROAD (CR 1568)
SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL - 32	0.3 - 0.5	1.0 - 1.5	12	100	100	99	88	51	32				SM	A-2-4
BL - 32	0.6 - 0.8	2.0 - 2.5	10										SM	A-2-4
BL - 32	0.9 - 1.1	3.0 - 3.5	13										SM	A-2-4
BL - 32	1.2 - 1.4	4.0 - 4.5	20										SM	A-2-4
BL - 32	1.5 - 1.7	5.0 - 5.5	20	100	100	100	88	43	31				SM	A-2-4
BL - 33	0.3 - 0.5	1.0 - 1.5	13										SM	A-2-4
BL - 33	0.6 - 0.8	2.0 - 2.5	16										SC	A-6
BL - 33	0.9 - 1.1	3.0 - 3.5	18										SC	A-6
BL - 33	1.2 - 1.4	4.0 - 4.5	19										SC	A-6
BL - 33	1.5 - 1.7	5.0 - 5.5	17	100	100	99	90	51	38	29	12		SC	A-6
BL - 34	0.3 - 0.5	1.0 - 1.5	14										SM	A-4
BL - 34	0.6 - 0.8	2.0 - 2.5	15	100	100	100	90	52	37	23	4		SM	A-4
BL - 35	0.3 - 0.5	1.0 - 1.5	18										SM	A-4
BL - 35	0.6 - 0.8	2.0 - 2.5	18	100	100	99	90	54	43	33	5		SM	A-4
BL - 35	0.9 - 1.1	3.0 - 3.5	15										SM	A-4
BL - 35	1.2 - 1.4	4.0 - 4.5	14										SM	A-4
BL - 35	1.5 - 1.7	5.0 - 5.5	12										SM	A-4
BL - 37	0.3 - 0.5	1.0 - 1.5	9										SM	A-2-4
BL - 37	0.6 - 0.8	2.0 - 2.5	11	100	100	99	86	39	25				SM	A-2-4
BL - 37	0.9 - 1.1	3.0 - 3.5	16										SM	A-2-4
BL - 37	1.2 - 1.4	4.0 - 4.5	14										SM	A-2-4
BL - 37	1.5 - 1.7	5.0 - 5.5	13										SM	A-2-4
BL - 38	0.3 - 0.5	1.0 - 1.5	13										SM	A-2-4
BL - 38	0.6 - 0.8	2.0 - 2.5	14										SM	A-2-4
BL - 38	0.9 - 1.1	3.0 - 3.5	19										SM	A-4
BL - 38	1.2 - 1.4	4.0 - 4.5	15	100	100	99	89	49	37	26	5		SM	A-4
BL - 38	1.5 - 1.7	5.0 - 5.5	14										SM	A-4
BL - 39	0.3 - 0.5	1.0 - 1.5	9										SM	A-2-4
BL - 39	0.6 - 0.8	2.0 - 2.5	13										SM	A-2-4
BL - 39	0.9 - 1.1	3.0 - 3.5	18										SM	A-4
BL - 39	1.2 - 1.4	4.0 - 4.5	12	100	100	100	89	47	32	22	3		SM	A-4
BL - 39	1.5 - 1.7	5.0 - 5.5	14										SM	A-4
BL - 40	0.3 - 0.5	1.0 - 1.5	12										SM	A-4
BL - 40	0.6 - 0.8	2.0 - 2.5	14										SM	A-4
BL - 40	0.9 - 1.1	3.0 - 3.5	16										SM	A-4
BL - 40	1.2 - 1.4	4.0 - 4.5	16	100	100	99	89	49	36	25	4		SM	A-4
BL - 40	1.5 - 1.7	5.0 - 5.5	13											

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS

BUCK LAKE ROAD (CR 1568)

SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL- 42	0.3 - 0.5	1.0 - 1.5	10	100	100	99	86	39	26				SM	A-2-4
BL- 42	0.6 - 0.8	2.0 - 2.5	16	100	100	99	89	56	47	29	5		SM	A-4
BL- 42	0.9 - 1.1	3.0 - 3.5	8										SM	A-2-4
BL- 42	1.2 - 1.4	4.0 - 4.5	7	100	100	98	87	36	18				SM	A-2-4
BL- 42	1.5 - 1.7	5.0 - 5.5	6										SM	A-2-4
BL - 43	0.3 - 0.5	1.0 - 1.5	9										SM	A-2-4
BL - 43	0.6 - 0.8	2.0 - 2.5	8										SM	A-2-4
BL - 43	0.9 - 1.1	3.0 - 3.5	16	100	100	99	92	63	34	26	4		SM	A-2-4
BL - 43	1.2 - 1.4	4.0 - 4.5	10										SM	A-2-4
BL - 43	1.5 - 1.7	5.0 - 5.5	10										SM	A-2-4
BL - 44	0.3 - 0.5	1.0 - 1.5	11	100	100	98	85	37	24				SM	A-2-4
BL - 44	0.6 - 0.8	2.0 - 2.5	10										SM	A-2-4
BL - 44	0.9 - 1.1	3.0 - 3.5	11										SM	A-2-4
BL - 44	1.2 - 1.4	4.0 - 4.5	15										SM	A-2-4
BL - 44	1.5 - 1.7	5.0 - 5.5	22	100	100	99	93	54	39	31	14		SC	A-6
BL - 45	0.3 - 0.5	1.0 - 1.5	10	100	99	97	82	37	24				SM	A-2-4
BL - 45	0.6 - 0.8	2.0 - 2.5	13										SM	A-2-4
BL - 45	0.9 - 1.1	3.0 - 3.5	15										SM	A-2-4
BL - 45	1.2 - 1.4	4.0 - 4.5	16										SM	A-2-4
BL - 45	1.5 - 1.7	5.0 - 5.5	10										SM	A-2-4
BL - 47	0.3 - 0.5	1.0 - 1.5	13	100	100	100	94	57	46	26	7		SC	A-4
BL - 47	0.6 - 0.8	2.0 - 2.5	10										SM	A-2-4
BL - 47	0.9 - 1.1	3.0 - 3.5	12										SM	A-2-4
BL - 47	1.2 - 1.4	4.0 - 4.5	13										SM	A-2-4
BL - 47	1.5 - 1.7	5.0 - 5.5	20										SM	A-2-4
BL - 48	0.3 - 0.5	1.0 - 1.5	10										SM	A-2-4
BL - 48	0.6 - 0.8	2.0 - 2.5	12										SM	A-2-4
BL - 48	0.9 - 1.1	3.0 - 3.5	15										SM	A-4
BL - 48	1.2 - 1.4	4.0 - 4.5	18	100	100	99	92	53	36	23	4		SM	A-4
BL - 48	1.5 - 1.7	5.0 - 5.5	20										SM	A-4
BL - 49	0.3 - 0.5	1.0 - 1.5	10	100	100	100	90	46	26				SM	A-2-4
BL - 49	0.6 - 0.8	2.0 - 2.5	11										SM	A-2-4
BL - 49	0.9 - 1.1	3.0 - 3.5	14										SM	A-2-4
BL - 49	1.2 - 1.4	4.0 - 4.5	7										SM	A-2-4
BL - 49	1.5 - 1.7	5.0 - 5.5	8										SM	A-2-4
BL - 50	0.3 - 0.5	1.0 - 1.5	8										SM	A-2-4
BL - 50	0.6 - 0.8	2.0 - 2.5	6	100	100	98	83	28	16				SM	A-2-4
BL - 50	0.9 - 1.1	3.0 - 3.5	8										SM	A-2-4
BL - 50	1.2 - 1.4	4.0 - 4.5	8										SM	A-2-4
BL - 50	1.5 - 1.7	5.0 - 5.5	7										SM	A-2-4

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS

BUCK LAKE ROAD (CR 1568)

SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL - 65	0.3 - 0.5	1.0 - 1.5	18										SM	A-4
BL - 65	0.6 - 0.8	2.0 - 2.5	18	100	100	99	92	54	45	28	6		SM	A-4
BL - 65	0.9 - 1.1	3.0 - 3.5	18										SM	A-4
BL - 65	1.2 - 1.4	4.0 - 4.5	16										SM	A-4
BL - 65	1.5 - 1.7	5.0 - 5.5	16										SM	A-4
BL - 66	0.3 - 0.5	1.0 - 1.5	10	100	100	100	93	54	41	27	10		SM	A-4
BL - 66	0.6 - 0.8	2.0 - 2.5	13										SM	A-4
BL - 66	0.9 - 1.1	3.0 - 3.5	15										SM	A-4
BL - 66	1.2 - 1.4	4.0 - 4.5	14										SM	A-2-4
BL - 66	1.5 - 1.7	5.0 - 5.5	14										SM	A-2-4
BL - 66	1.8 - 2.0	6.0 - 6.5	16	100	100	100	93	51	34				SM	A-2-4
BL - 66	2.1 - 2.3	7.0 - 7.5	13										SM	A-2-4
BL - 66	2.4 - 2.6	8.0 - 8.5	14										SM	A-2-4
BL - 66	2.7 - 2.9	9.0 - 9.5	14										SM	A-2-4
BL - 66	2.9 - 3.0	9.5 - 10.0	15										SM	A-2-4
BL - 67	0.3 - 0.5	1.0 - 1.5	13										SM	A-4
BL - 67	0.6 - 0.8	2.0 - 2.5	13	100	100	100	96	70	46	28	6		SM	A-4
BL - 67	0.9 - 1.1	3.0 - 3.5	16										SM	A-4
BL - 67	1.2 - 1.4	4.0 - 4.5	12										SM	A-4
BL - 67	1.5 - 1.7	5.0 - 5.5	11										SM	A-4
BL - 68	0.3 - 0.5	1.0 - 1.5	13										SC	A-6
BL - 68	0.6 - 0.8	2.0 - 2.5	17										SC	A-6
BL - 68	0.9 - 1.1	3.0 - 3.5	20	100	100	100	96	64	49	38	19		SC	A-6
BL - 68	1.2 - 1.4	4.0 - 4.5	19										SC	A-6
BL - 68	1.5 - 1.7	5.0 - 5.5	18										SC	A-6
BL - 69	0.3 - 0.5	1.0 - 1.5	8										SM	A-2-4
BL - 69	0.6 - 0.8	2.0 - 2.5	10	100	100	96	69	37	29				SM	A-2-4
BL - 69	0.9 - 1.1	3.0 - 3.5	13										SM	A-2-4
BL - 69	1.2 - 1.4	4.0 - 4.5	13										SM	A-4
BL - 69	1.5 - 1.7	5.0 - 5.5	13	100	100	99	77	46	40	23	5		SM	A-4
BL - 70	0.3 - 0.5	1.0 - 1.5	4										SM	A-2-4
BL - 70	0.6 - 0.8	2.0 - 2.5	5										SM	A-2-4
BL - 70	0.9 - 1.1	3.0 - 3.5	16										SM	A-2-4
BL - 70	1.2 - 1.4	4.0 - 4.5	20										SM	A-4
BL - 70	1.5 - 1.7	5.0 - 5.5	23	100	100	99	88	50	40				SM	A-4
BL - 71	0.3 - 0.5	1.0 - 1.5	17										SC	A-6
BL - 71	0.6 - 0.8	2.0 - 2.5	18	100	100	100	99	53	47	34	12		SC	A-6
BL - 71	0.9 - 1.1	3.0 - 3.5	19										SC	A-6
BL - 71	1.2 - 1.4	4.0 - 4.5	18										SC	A-6
BL - 71	1.5 - 1.7	5.0 - 5.5	16										SC	A-6
BL - 71	1.8 - 2.0	6.0 - 6.5	24										SC	A-6
BL - 71	2.1 - 2.3	7.0 - 7.5	15										SC	A-6
BL - 71	2.4 - 2.6	8.0 - 8.5	24	100	100	98	71	53	49	35	13		SC	A-6
BL - 71	2.7 - 2.9	9.0 - 9.5	24										SC	A-6
BL - 71	2.9 - 3.0	9.5 - 10.0	12										SC	A-6

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS
BUCK LAKE ROAD (CR 1568)
SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL - 72	0.3 - 0.5	1.0 - 1.5	13	100	100	99	92	53	39	24	11		SC	A-6
BL - 72	0.6 - 0.8	2.0 - 2.5	6										SM	A-2-4
BL - 72	0.9 - 1.1	3.0 - 3.5	9										SM	A-2-4
BL - 72	1.2 - 1.4	4.0 - 4.5	17										SM	A-4
BL - 72	1.5 - 1.7	5.0 - 5.5	18	100	100	100	95	58	49	37	10		SM	A-4
BL - 73	0.3 - 0.5	1.0 - 1.5	9										SM	A-2-4
BL - 73	0.6 - 0.8	2.0 - 2.5	8										SM	A-2-4
BL - 73	0.9 - 1.1	3.0 - 3.5	11										SM	A-2-4
BL - 73	1.2 - 1.4	4.0 - 4.5	18	100	100	99	94	54	40	24	4		SM	A-4
BL - 73	1.5 - 1.7	5.0 - 5.5	21										SM	A-4
BL - 74	0.3 - 0.5	1.0 - 1.5	11										SM	A-4
BL - 74	0.6 - 0.8	2.0 - 2.5	10										SM	A-2-4
BL - 74	0.9 - 1.1	3.0 - 3.5	13										MH	A-7-5
BL - 74	1.2 - 1.4	4.0 - 4.5	20	100	100	99	95	67	58	50	20		MH	A-7-5
BL - 74	1.5 - 1.7	5.0 - 5.5	18										MH	A-7-5
BL - 75	0.3 - 0.5	1.0 - 1.5	9										SM	A-2-4
BL - 75	0.6 - 0.8	2.0 - 2.5	7										SM	A-2-4
BL - 75	0.9 - 1.1	3.0 - 3.5	6										SM	A-2-4
BL - 75	1.2 - 1.4	4.0 - 4.5	9										SM	A-2-4
BL - 75	1.5 - 1.7	5.0 - 5.5	15	100	100	99	93	47	36	22	3		SM	A-4
BL - 76	0.3 - 0.5	1.0 - 1.5	10										SM	A-4
BL - 76	0.6 - 0.8	2.0 - 2.5	10	100	100	100	97	52	38	23	4		SM	A-4
BL - 76	0.9 - 1.1	3.0 - 3.5	12										SM	A-4
BL - 76	1.2 - 1.4	4.0 - 4.5	14										SM	A-4
BL - 76	1.5 - 1.7	5.0 - 5.5	14	100	100	100	99	43	34				SM	A-2-4
BL - 76	1.8 - 2.0	6.0 - 6.5	16										SM	A-2-4
BL - 76	2.1 - 2.3	7.0 - 7.5	14										SM	A-2-4
BL - 76	2.4 - 2.6	8.0 - 8.5	12										SM	A-2-4
BL - 76	2.7 - 2.9	9.0 - 9.5	9										SM	A-2-4
BL - 76	2.9 - 3.0	9.5 - 10.0	11										SM	A-2-4
BL - 77	0.3 - 0.5	1.0 - 1.5	6										SM	A-2-4
BL - 77	0.6 - 0.8	2.0 - 2.5	7										SM	A-2-4
BL - 77	0.9 - 1.1	3.0 - 3.5	5										SM	A-2-4
BL - 77	1.2 - 1.4	4.0 - 4.5	7										SM	A-2-4
BL - 77	1.5 - 1.7	5.0 - 5.5	12	100	100	99	94	49	34				SM	A-2-4
BL - 78	0.3 - 0.5	1.0 - 1.5	10										SM	A-2-4
BL - 78	0.6 - 0.8	2.0 - 2.5	9										SM	A-2-4
BL - 78	0.9 - 1.1	3.0 - 3.5	9										SM	A-2-4
BL - 78	1.2 - 1.4	4.0 - 4.5	17	100	100	99	94	53	38	24	4		SM	A-4
BL - 78	1.5 - 1.7	5.0 - 5.5	15										SM	A-4

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS
BUCK LAKE ROAD (CR 1568)
SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL - 79	0.3 - 0.5	1.0 - 1.5	8	100	100	100	86	30	14				SM	A-2-4
BL - 79	0.6 - 0.8	2.0 - 2.5	15	100	100	99	88	51	45				SM	A-4
BL - 79	0.9 - 1.1	3.0 - 3.5	14										SM	A-4
BL - 79	1.2 - 1.4	4.0 - 4.5	18										SC	A-6
BL - 79	1.5 - 1.7	5.0 - 5.5	17	100	99	99	98	65	49	30	11		SC	A-6
BL - 80	0.3 - 0.5	1.0 - 1.5	14										SM	A-4
BL - 80	0.6 - 0.8	2.0 - 2.5	16	100	100	100	96	52	43	28	6		SM	A-4
BL - 80	0.9 - 1.1	3.0 - 3.5	11	100	100	100	81	46	32				SM	A-2-4
BL - 80	1.2 - 1.4	4.0 - 4.5	8										SM	A-2-4
BL - 80	1.5 - 1.7	5.0 - 5.5	14										SM	A-2-4
BL - 81	0.3 - 0.5	1.0 - 1.5	9										SM	A-2-4
BL - 81	0.6 - 0.8	2.0 - 2.5	7	98	98	98	90	35	22				SM	A-2-4
BL - 81	0.9 - 1.1	3.0 - 3.5	9										SM	A-2-4
BL - 81	1.2 - 1.4	4.0 - 4.5	13										SM	A-2-4
BL - 81	1.5 - 1.7	5.0 - 5.5	13										SM	A-2-4
BL - 81	1.8 - 2.0	6.0 - 6.5	16										SM	A-4
BL - 81	2.1 - 2.3	7.0 - 7.5	14										SM	A-4
BL - 81	2.4 - 2.6	8.0 - 8.5	16	100	100	100	94	45	36	27	6		SM	A-4
BL - 81	2.7 - 2.9	9.0 - 9.5	17										SM	A-4
BL - 81	2.9 - 3.0	9.5 - 10.0	15										SM	A-4
BL - 82	0.3 - 0.5	1.0 - 1.5	15	100	100	99	85	58	49	28	11		SC	A-6
BL - 82	0.6 - 0.8	2.0 - 2.5	10										SM	A-4
BL - 82	0.9 - 1.1	3.0 - 3.5	10										SM	A-4
BL - 82	1.2 - 1.4	4.0 - 4.5	19									2.1	SM	A-4
BL - 82	1.5 - 1.7	5.0 - 5.5	21	100	100	99	93	55	42	28	4		SM	A-4
BL - 83	0.3 - 0.5	1.0 - 1.5	6										SM	A-2-4
BL - 83	0.6 - 0.8	2.0 - 2.5	10	99	99	91	91	91	34				SM	A-2-4
BL - 83	0.9 - 1.1	3.0 - 3.5	12										SM	A-2-4
BL - 83	1.2 - 1.4	4.0 - 4.5	12										SM	A-2-4
BL - 83	1.5 - 1.7	5.0 - 5.5	12										SM	A-2-4
BL - 84	0.3 - 0.5	1.0 - 1.5	10	100	99	98	87	39	29				SM	A-2-4
BL - 84	0.6 - 0.8	2.0 - 2.5	11										SM	A-2-4
BL - 84	0.9 - 1.1	3.0 - 3.5	12										SC	A-2-6
BL - 84	1.2 - 1.4	4.0 - 4.5	17										SC	A-2-6
BL - 84	1.5 - 1.7	5.0 - 5.5	19	100	100	99	95	56	49	38	13		SC	A-6
BL - 85	0.3 - 0.5	1.0 - 1.5	8										SM	A-2-4
BL - 85	0.6 - 0.8	2.0 - 2.5	14										SC	A-6
BL - 85	0.9 - 1.1	3.0 - 3.5	16	100	100	99	94	56	49	34	11		SC	A-6
BL - 85	1.2 - 1.4	4.0 - 4.5	11										SC	A-6
BL - 85	1.5 - 1.7	5.0 - 5.5	11	100	100	99	95	58	49				SC	A-6

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS

BUCK LAKE ROAD (CR 1568)

SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL - 86	0.3 - 0.5	1.0 - 1.5	14										SC	A-6
BL - 86	0.6 - 0.8	2.0 - 2.5	17	100	99	97	91	54	47	35	12		SC	A-6
BL - 86	0.9 - 1.1	3.0 - 3.5	17										SC	A-6
BL - 86	1.2 - 1.4	4.0 - 4.5	13										SC	A-6
BL - 86	1.5 - 1.7	5.0 - 5.5	13										SC	A-6
BL - 86	1.8 - 2.0	6.0 - 6.5	12										SC	A-6
BL - 86	2.1 - 2.3	7.0 - 7.5	12	99	98	97	92	49	40	36	12		SC	A-6
BL - 86	2.4 - 2.6	8.0 - 8.5	11										SC	A-6
BL - 86	2.7 - 2.9	9.0 - 9.5	10										SC	A-6
BL - 86	2.9 - 3.0	9.5 - 10.0	12										SC	A-6
BL - 87	0.3 - 0.5	1.0 - 1.5	14										SM	A-4
BL - 87	0.6 - 0.8	2.0 - 2.5	15										SM	A-4
BL - 87	0.9 - 1.1	3.0 - 3.5	16										SM	A-4
BL - 87	1.2 - 1.4	4.0 - 4.5	15	99	98	97	89	46	35	29	7		SM	A-4
BL - 87	1.5 - 1.7	5.0 - 5.5	15										SM	A-4
BL - 88	0.3 - 0.5	1.0 - 1.5	13										SC	A-6
BL - 88	0.6 - 0.8	2.0 - 2.5	14	99	98	97	96	49	41	29	11		SC	A-6
BL - 88	0.9 - 1.1	3.0 - 3.5	14										SC	A-6
BL - 88	1.2 - 1.4	4.0 - 4.5	13										SM	A-4
BL - 88	1.5 - 1.7	5.0 - 5.5	13										SM	A-4
BL - 89	0.3 - 0.5	1.0 - 1.5	13	99	98	96	83	51	42	26	11		SC	A-6
BL - 89	0.6 - 0.8	2.0 - 2.5	13										SC	A-6
BL - 89	0.9 - 1.1	3.0 - 3.5	14										SC	A-6
BL - 89	1.2 - 1.4	4.0 - 4.5	14										SM	A-4
BL - 89	1.5 - 1.7	5.0 - 5.5	14										SM	A-4
BL - 90	0.3 - 0.5	1.0 - 1.5	17										SC	A-6
BL - 90	0.6 - 0.8	2.0 - 2.5	18										SC	A-6
BL - 90	0.9 - 1.1	3.0 - 3.5	17										SC	A-6
BL - 90	1.2 - 1.4	4.0 - 4.5	15	100	100	98	90	46	41	32	14		SC	A-6
BL - 90	1.5 - 1.7	5.0 - 5.5	14										SC	A-6
BL - 91	0.3 - 0.5	1.0 - 1.5	16										SC	A-6
BL - 91	0.6 - 0.8	2.0 - 2.5	17	100	100	98	88	45	36	29	13		SC	A-6
BL - 91	0.9 - 1.1	3.0 - 3.5	17										SC	A-6
BL - 91	1.2 - 1.4	4.0 - 4.5	15	100	99	96	74	42	34	29	6		SM	A-2-4
BL - 91	1.5 - 1.7	5.0 - 5.5	14										SM	A-2-4
BL - 91	1.8 - 2.0	6.0 - 6.5	13										SM	A-2-4
BL - 91	2.1 - 2.3	7.0 - 7.5	12										SM	A-2-4
BL - 91	2.4 - 2.6	8.0 - 8.5	12										SM	A-2-4
BL - 91	2.7 - 2.9	9.0 - 9.5	13										SM	A-2-4
BL - 91	2.9 - 3.0	9.5 - 10.0	13										SM	A-2-4
BL - 92	0.3 - 0.5	1.0 - 1.5	14	100	98	95	73	41	30				SM	A-2-4
BL - 92	0.6 - 0.8	2.0 - 2.5	17										SC	A-6
BL - 92	0.9 - 1.1	3.0 - 3.5	18	100	99	97	84	48	38	36	14		SC	A-6
BL - 92	1.2 - 1.4	4.0 - 4.5	15										SC	A-6
BL - 92	1.5 - 1.7	5.0 - 5.5	14										SC	A-6

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS
BUCK LAKE ROAD (CR 1568)
SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL - 93	0.3 - 0.5	1.0 - 1.5	14										SM	A-2-4
BL - 93	0.6 - 0.8	2.0 - 2.5	15	100	99	97	78	41	33	29	5		SM	A-2-4
BL - 93	0.9 - 1.1	3.0 - 3.5	14										SM	A-2-4
BL - 93	1.2 - 1.4	4.0 - 4.5	15										SM	A-2-4
BL - 93	1.5 - 1.7	5.0 - 5.5	15										SM	A-2-4
BL - 94	0.3 - 0.5	1.0 - 1.5	15										SC	A-6
BL - 94	0.6 - 0.8	2.0 - 2.5	16	100	100	98	90	55	43	34	12		SC	A-6
BL - 94	0.9 - 1.1	3.0 - 3.5	17										SC	A-6
BL - 94	1.2 - 1.4	4.0 - 4.5	15										SC	A-6
BL - 94	1.5 - 1.7	5.0 - 5.5	14										SC	A-6
BL - 95	0.3 - 0.5	1.0 - 1.5	12										SC	A-6
BL - 95	0.6 - 0.8	2.0 - 2.5	8										SM	A-2-4
BL - 95	0.9 - 1.1	3.0 - 3.5	14	100	100	100	88	51	40	31	7		SM	A-4
BL - 95	1.2 - 1.4	4.0 - 4.5	16										SM	A-2-4
BL - 95	1.5 - 1.7	5.0 - 5.5	15										SM	A-2-4
BL - 96	0.3 - 0.5	1.0 - 1.5	11										SM	A-4
BL - 96	0.6 - 0.8	2.0 - 2.5	11										SM	A-4
BL - 96	0.9 - 1.1	3.0 - 3.5	13	100	99	98	88	46	33	31	7		SM	A-4
BL - 96	1.2 - 1.4	4.0 - 4.5	13										SM	A-4
BL - 96	1.5 - 1.7	5.0 - 5.5	13										SM	A-4
BL - 96	1.8 - 2.0	6.0 - 6.5	13										SM	A-2-4
BL - 96	2.1 - 2.3	7.0 - 7.5	13	100	100	100	91	44	32				SM	A-2-4
BL - 96	2.4 - 2.6	8.0 - 8.5	13										SM	A-2-4
BL - 96	2.7 - 2.9	9.0 - 9.5	13										SM	A-2-4
BL - 96	2.9 - 3.0	9.5 - 10.0	13										SM	A-2-4
BL - 97	0.3 - 0.5	1.0 - 1.5	13	100	100	99	90	50	42	29	11		SC	A-6
BL - 97	0.6 - 0.8	2.0 - 2.5	14										SC	A-6
BL - 97	0.9 - 1.1	3.0 - 3.5	13										SC	A-6
BL - 97	1.2 - 1.4	4.0 - 4.5	12										SC	A-6
BL - 97	1.5 - 1.7	5.0 - 5.5	13										SC	A-6
BL - 98	0.3 - 0.5	1.0 - 1.5	12										SC	A-6
BL - 98	0.6 - 0.8	2.0 - 2.5	13	100	100	100	91	50	42	30	11		SC	A-6
BL - 98	0.9 - 1.1	3.0 - 3.5	13										SC	A-6
BL - 98	1.2 - 1.4	4.0 - 4.5	13										SM	A-2-4
BL - 98	1.5 - 1.7	5.0 - 5.5	12										SM	A-2-4
BL - 99	0.3 - 0.5	1.0 - 1.5	13	100	100	99	89	47	37	26	5		SM	A-4
BL - 99	0.6 - 0.8	2.0 - 2.5	14										SM	A-2-4
BL - 99	0.9 - 1.1	3.0 - 3.5	12										SM	A-2-4
BL - 99	1.2 - 1.4	4.0 - 4.5	12	100	100	99	89	44	32				SM	A-2-4
BL - 99	1.5 - 1.7	5.0 - 5.5	12										SM	A-2-4

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

ROADWAY BORINGS

BUCK LAKE ROAD (CR 1568)

SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
BL - 100	0.3 - 0.5	1.0 - 1.5	11										SM	A-4
BL - 100	0.6 - 0.8	2.0 - 2.5	13	100	100	99	90	47	36	25	4		SM	A-4
BL - 100	0.9 - 1.1	3.0 - 3.5	13										SM	A-4
BL - 100	1.2 - 1.4	4.0 - 4.5	15										SM	A-4
BL - 100	1.5 - 1.7	5.0 - 5.5	15										SM	A-4
BL - 101	0.3 - 0.5	1.0 - 1.5	7										SM	A-2-4
BL - 101	0.6 - 0.8	2.0 - 2.5	10	99	99	98	88	46	39	29	11		SC	A-6
BL - 101	0.9 - 1.1	3.0 - 3.5	10										SC	A-6
BL - 101	1.2 - 1.4	4.0 - 4.5	6										SM	A-2-4
BL - 101	1.5 - 1.7	5.0 - 5.5	8	100	99	97	84	34	27				SM	A-2-4
BL - 101	1.8 - 2.0	6.0 - 6.5	8										SM	A-2-4
BL - 101	2.1 - 2.3	7.0 - 7.5	8										SM	A-2-4
BL - 101	2.4 - 2.6	8.0 - 8.5	11										SM	A-2-4
BL - 101	2.7 - 2.9	9.0 - 9.5	10										SM	A-2-4
BL - 101	2.9 - 3.0	9.5 - 10.0	9										SM	A-2-4
BL - 102	0.3 - 0.5	1.0 - 1.5	12										SC	A-6
BL - 102	0.6 - 0.8	2.0 - 2.5	13	100	100	99	88	48	41	27	12		SC	A-6
BL - 102	0.9 - 1.1	3.0 - 3.5	14										SC	A-6
BL - 102	1.2 - 1.4	4.0 - 4.5	14										SC	A-6
BL - 102	1.5 - 1.7	5.0 - 5.5	14										SC	A-6

UTILITY SOIL CLASSIFICATION DATA

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

UTILITY BORINGS
BUCK LAKE ROAD (CR 1568)
SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	ASSHTO
BL - 1	0.0 - 1.5	0.0 - 5.0	21	100	100	99	95	54	44	37	12		SC	A-6
BL - 1	1.5 - 2.0	5.0 - 6.5	18										SC	A-6
BL - 1	2.3 - 2.7	7.5 - 9.0	27	100	100	100	99	91	71	64	21		MH	A-7-5
BL - 1	3.0 - 3.5	10.0 - 11.5	27										SM	A-2-4
BL - 1	3.8 - 4.3	12.5 - 14.0	11	100	100	100	99	28	24				SM	A-2-4
BL - 1	4.6 - 5.0	15.0 - 16.5	10										SM	A-2-4
BL - 1	5.6 - 6.1	18.5 - 20.0	14	100	100	99	94	21	17				SM	A-2-4
BL - 6	0.0 - 0.5	0.0 - 1.5	17	100	100	98	92	47	33	33	14		SC	A-2-6
BL - 6	1.5 - 2.0	5.0 - 6.5	23										SC	A-2-6
BL - 6	3.0 - 3.5	10.0 - 11.5	8	100	100	100	65	19	13				SM	A-2-4
BL - 6	4.6 - 5.0	15.0 - 16.5	8										SM	A-2-4
BL - 6	6.1 - 6.6	20.0 - 21.5	8										SM	A-2-4
BL - 11	0.0 - 0.5	0.0 - 1.5	14	100	100	100	90	39	24				SM	A-2-4
BL - 11	1.5 - 2.0	5.0 - 6.5	12	100	100	98	88	29	29				SM	A-2-4
BL - 11	3.0 - 3.5	10.0 - 11.5	4										SM	A-2-4
BL - 11	4.6 - 5.0	15.0 - 16.5	6	100	100	94	77	19	13				SM	A-2-4
BL - 11	6.1 - 6.6	20.0 - 21.5	7										SM	A-2-4
BL - 16	0.0 - 0.5	0.0 - 1.5	13	99	98	97	90	30	15	23	4		SM	A-2-4
BL - 16	1.5 - 2.0	5.0 - 6.5	15										SM	A-2-4
BL - 16	3.0 - 3.5	10.0 - 11.5	8	100	100	94	76	17	13				SM	A-2-4
BL - 16	4.6 - 5.0	15.0 - 16.5	7										SM	A-2-4
BL - 16	6.1 - 6.6	20.0 - 21.5	58	100	99	97	95	93	89	137	94		MH	A-7-5
BL - 21	0.0 - 0.5	0.0 - 1.5	9										SM	A-2-4
BL - 21	1.5 - 2.0	5.0 - 6.5	23	99	99	99	93	65	44	40	5		SM	A-4
BL - 21	3.0 - 3.5	10.0 - 11.5	13										SM	A-4
BL - 21	4.6 - 5.0	15.0 - 16.5	15	100	100	100	95	53	44	28	7		SM	A-4
BL - 21	6.1 - 6.6	20.0 - 21.5	9										SM	A-2-4
BL - 26	0.0 - 0.5	0.0 - 1.5	7										SM	A-2-4
BL - 26	1.5 - 2.0	5.0 - 6.5	14	100	100	100	92	47	32	29	7		SM	A-2-4
BL - 26	3.0 - 3.5	10.0 - 11.5	10										SM	A-2-4
BL - 26	4.6 - 4.9	15.0 - 16.0	11	100	100	93	68	28	23				SM	A-2-4
BL - 26	4.9 - 5.0	16.0 - 16.5	16	100	100	97	95	78	52				MH	A-7-5
BL - 26	6.1 - 6.6	20.0 - 21.5	15										SM	A-2-4
BL - 31	0.0 - 0.3	0.0 - 1.0	8										SM	A-2-4
BL - 31	0.3 - 0.5	1.0 - 1.5	13	100	100	99	88	48	38				SC	A-6
BL - 31	1.5 - 2.0	5.0 - 6.5	14	100	100	98	88	41	31	23	4		SM	A-2-4
BL - 31	3.0 - 3.5	10.0 - 11.5	7										SM	A-2-4
BL - 31	4.6 - 5.0	15.0 - 16.5	6										SM	A-2-4
BL - 31	6.1 - 6.6	20.0 - 21.5	11	100	100	100	99	56	19				SM	A-2-4
BL - 36	0.0 - 0.5	0.0 - 1.5	9										SM	A-2-4
BL - 36	1.5 - 2.0	5.0 - 6.5	15	100	100	99	91	48	34	25	15		SC	A-2-6
BL - 36	3.0 - 3.5	10.0 - 11.5	11	100	100	99	87	37	24				SM	A-2-4
BL - 36	4.6 - 5.0	15.0 - 16.5	10										SM	A-2-4
BL - 36	6.1 - 6.6	20.0 - 21.5	4	100	100	97	79	26	13				SM	A-2-4

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

UTILITY BORINGS

BUCK LAKE ROAD (CR 1568)

SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	ASSHTO
BL - 41	0.0 - 0.5	0.0 - 1.5	6	100	100	99	91	48	23				SM	A-2-4
BL - 41	1.5 - 2.0	5.0 - 6.5	17	100	100	99	90	50	37	35	10		SM	A-4
BL - 41	3.0 - 3.5	10.0 - 11.5	13										SM	A-4
BL - 41	4.6 - 5.0	15.0 - 16.5	21	100	100	99	98	51	31				SM	A-2-4
BL - 41	6.1 - 6.6	20.0 - 21.5	28	100	100	100	99	88	72	71	23		MH	A-7-5
BL - 46	0.0 - 0.5	0.0 - 1.5	10										SM	A-2-4
BL - 46	1.5 - 2.0	5.0 - 6.5	17	100	100	98	88	46	28				SM	A-2-4
BL - 46	3.0 - 3.5	10.0 - 11.5	19	100	100	99	89	34	22				SM	A-2-4
BL - 46	4.6 - 5.0	15.0 - 16.5	17										SM	A-2-4
BL - 46	6.1 - 6.6	20.0 - 21.5	15	100	100	98	85	39	23				SM	A-2-4

CULVERT SOIL CLASSIFICATION DATA

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

CULVERT BORINGS
BUCK LAKE ROAD (CR 1568)
SOIL CLASSIFICATION DATA

LOCATION			W	MECHANICAL ANALYSIS (%) PASSING						ATTERBERG LIMIT		ORG.	CLASSIFICATION	
BORING	METERS	FEET	(%)	4	10	20	40	100	200	LIQUID LIMIT	PLASTICITY INDEX	(%)	UNIFIED	AASHTO
C - 1	0.3 - 0.5	1.0 - 1.5	20										SM	A-2-4
C - 1	0.6 - 0.8	2.0 - 2.5	24	100	100	99	89	39	24				SM	A-2-4
C - 1	0.9 - 1.1	3.0 - 3.5	25										SM	A-2-4
C - 1	1.2 - 1.4	4.0 - 4.5	27										SC	A-2-6
C - 1	1.5 - 1.7	5.0 - 5.5	25										SC	A-2-6
C - 1	1.8 - 2.0	6.0 - 6.5	22										SC	A-2-6
C - 1	2.1 - 2.3	7.0 - 7.5	47										MH	A-7-5
C - 1	2.4 - 2.6	8.0 - 8.5	66	100	100	100	99	93	87	118	35		MH	A-7-5
C - 2	0.0 - 0.5	0.0 - 1.5	9										SM	A-2-4
C - 2	1.5 - 2.0	5.0 - 6.5	11	100	100	99	88	48	32	23	4		SM	A-2-4
C - 2	3.0 - 3.5	10.0 - 11.5	11	100	100	98	84	30	17				SM	A-2-4
C - 2	4.6 - 5.0	15.0 - 16.5	17	100	100	99	87	45	39	33	11		SC	A-6

APPENDIX D

"LBR" TEST RESULTS

DATA SHEET

LIMEROCK BEARING RATIO (LBR)

TEST IDENTIFICATION:

DATE: 4-29-97 **TIME:** _____

PROJECT NO: 16-03-97 **BORING NO:** LBR-1 (BL-11)

DEPTH: 0.6 - 1.2 Feet **TESTED BY:** A.M.

SOIL DESCRIPTION: REDDISH SILTY SAND, SM/A-2-4, (MATERIAL 1)

TEST DATA:

TARE NO.	1	2	3	4	5	
WT. OF TARE (g)	0.45	0.45	0.45	0.45	0.45	
WT. WET SOIL + TARE (g)	24.64	13.68	16.95	21.47	22.16	
WT. DRY SOIL + TARE (g)	22.99	12.61	15.32	19.13	19.68	
WATER CONTENT, w%	7.3	8.8	11.0	12.5	12.9	

MOLD NO.	1	2	3	4	5	
WEIGHT OF SOIL AND MOLD (g)	16047.0	16763.0	16943.0	16747.0	16779.0	
WEIGHT OF MOLD (g)	12148.0	12276.0	12236.0	12129.0	12218.0	
WEIGHT OF WET SOIL (g)	3899.0	4487.0	4707.0	4618.0	4561.0	
MOLD VOLUME (ft^3)	0.077	0.077	0.077	0.077	0.077	
WET DENSITY OF SOIL (pcf)	111.4	128.2	134.5	131.9	130.3	
DRY DENSITY OF SOIL (pcf)	103.8	117.8	121.2	117.3	115.4	
WATER CONTENT, w%	7.3	8.8	11.0	12.5	12.9	
LBR	10	50	58	16	12	

TEST RESULTS:

MAX. DRY DENSITY: 121.8 (LB/CU FT)

OPT. MOISTURE CONTENT: 10.5 (%)

MAX. LBR VALUE: 60

MEASURED IN-SITU DENSITY: 119.8 (LB/CU FT)

LBR @ IN-SITU DENSITY: 58

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
DATA SHEET

LIMEROCK BEARING RATIO
(LBR)

TEST IDENTIFICATION:

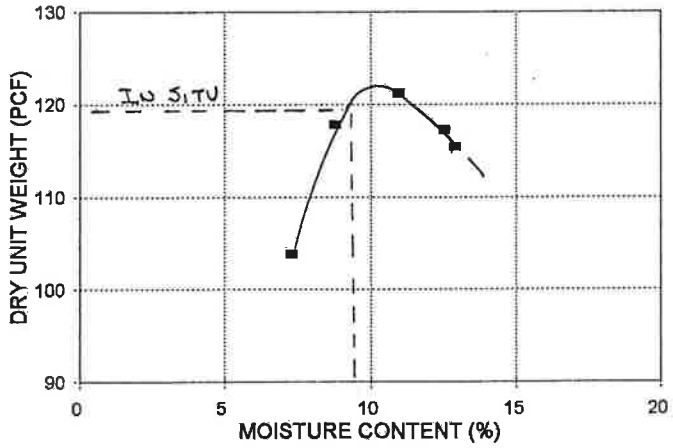
DATE: 4-29-97 **TIME:** _____

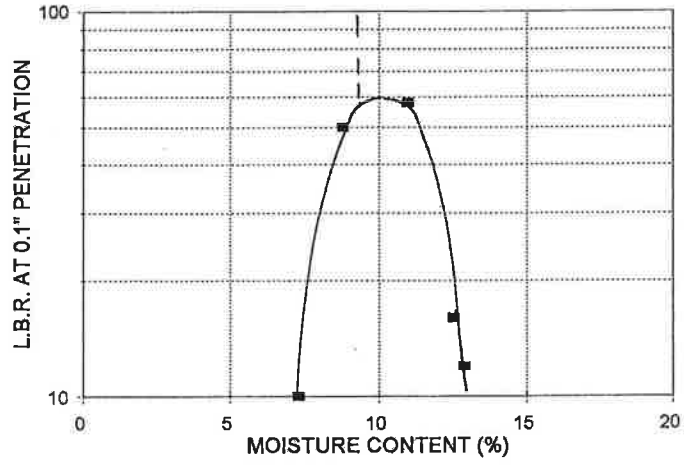
PROJECT NO: 16-03-97 **BORING NO:** LBR-1 (BL-11)

DEPTH: 0.6 - 1.2 Feet **TESTED BY:** A.M.

SOIL DESCRIPTION: REDDISH SILTY SAND, SM/A-2-4, (MATERIAL 1)

TEST RESULTS:





DATA SHEET

LIMEROCK BEARING RATIO (LBR)

TEST IDENTIFICATION:

DATE: 4-23-97 **TIME:** _____

PROJECT NO: 16-03-97 **BORING NO:** LBR-2 (BL-27)

DEPTH: 0.6 - 1.2 Feet **TESTED BY:** A.M.

SOIL DESCRIPTION: REDDISH SILTY SAND, SM/A-4, (MATERIAL 3)

TEST DATA:

TARE NO.	1	2	3	4	5	
WT. OF TARE (g)	0.45	0.45	0.45	0.45	0.45	
WT. WET SOIL + TARE (g)	22.83	20.87	16.94	20.87	24.08	
WT. DRY SOIL + TARE (g)	21.67	19.59	15.66	18.80	21.29	
WATER CONTENT, w%	5.5	6.7	8.4	11.3	13.4	

MOLD NO.	1	2	3	4	5	
WEIGHT OF SOIL AND MOLD (g)	15997.0	16331.0	16754.0	16844.0	16702.0	
WEIGHT OF MOLD (g)	12271.0	12145.0	12282.0	12237.0	12218.0	
WEIGHT OF WET SOIL (g)	3726.0	4186.0	4472.0	4607.0	4484.0	
MOLD VOLUME (ft^3)	0.077	0.077	0.077	0.077	0.077	
WET DENSITY OF SOIL (pcf)	106.5	119.6	127.8	131.6	128.1	
DRY DENSITY OF SOIL (pcf)	100.9	112.1	117.9	118.3	113.0	
WATER CONTENT, w%	5.5	6.7	8.4	11.3	13.4	
LBR	10	24	38	23	11	

TEST RESULTS:

MAX. DRY DENSITY: 119.0 (LB/CU FT)

OPT. MOISTURE CONTENT: 9.4 (%)

MAX. LBR VALUE: 39

MEASURED IN-SITU DENSITY: 116.8 (LB/CU FT)

LBR @ IN-SITU DENSITY: 31

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
DATA SHEET

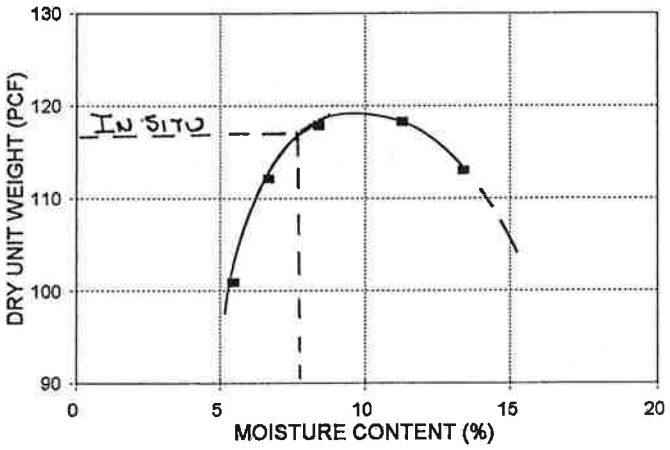
LIMEROCK BEARING RATIO
(LBR)

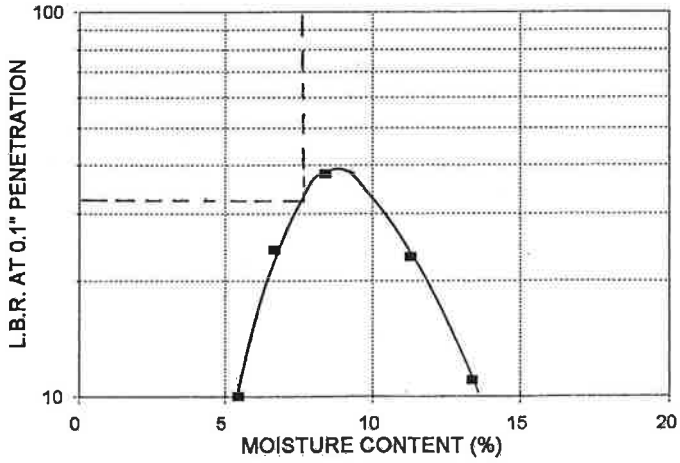
TEST IDENTIFICATION:

DATE:	4-23-97	**TIME:**	
PROJECT NO:	16-03-97	**BORING NO:**	LBR-2 (BL-27)
DEPTH:	0.6 - 1.2 Feet	**TESTED BY:**	A.M.

SOIL DESCRIPTION: REDDISH SILTY SAND, SM/A-4, (MATERIAL 3)

TEST RESULTS:





DATA SHEET

LIMEROCK BEARING RATIO (LBR)

TEST IDENTIFICATION:

DATE: 4-25-97 **TIME:**

PROJECT NO: 16-03-97 **BORING NO:** LBR-3 (BL-44)

DEPTH: 0.6 - 1.2 Feet **TESTED BY:** A.M.

SOIL DESCRIPTION: REDDISH SILTY SAND, SM/A-2-4, (MATERIAL 1)

TEST DATA:

TARE NO.	1	2	3	4	5	
WT. OF TARE (g)	0.45	0.45	0.45	0.45	0.45	
WT. WET SOIL + TARE (g)	27.20	22.99	24.61	19.07	24.30	
WT. DRY SOIL + TARE (g)	26.33	21.65	22.56	17.16	21.46	
WATER CONTENT, w%	3.4	6.3	9.3	11.4	13.5	

MOLD NO.	1	2	3	4	5	
WEIGHT OF SOIL AND MOLD (g)	15724.0	16709.0	16848.0	16715.0	16537.0	
WEIGHT OF MOLD (g)	12133.0	12202.0	12149.0	12135.0	12145.0	
WEIGHT OF WET SOIL (g)	3591.0	4507.0	4699.0	4580.0	4392.0	
MOLD VOLUME (ft^3)	0.077	0.077	0.077	0.077	0.077	
WET DENSITY OF SOIL (pcf)	102.6	128.8	134.3	130.9	125.5	
DRY DENSITY OF SOIL (pcf)	99.3	121.1	122.9	117.4	110.5	
WATER CONTENT, w%	3.4	6.3	9.3	11.4	13.5	
LBR	10	40	39	23	11	

TEST RESULTS:

MAX. DRY DENSITY: 124.8 (LB/CU FT)

OPT. MOISTURE CONTENT: 7.7 (%)

MAX. LBR VALUE: 50

MEASURED IN-SITU DENSITY: 120.2 (LB/CU FT)

LBR @ IN-SITU DENSITY: 38

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
DATA SHEET

LIMEROCK BEARING RATIO
(LBR)

TEST IDENTIFICATION:

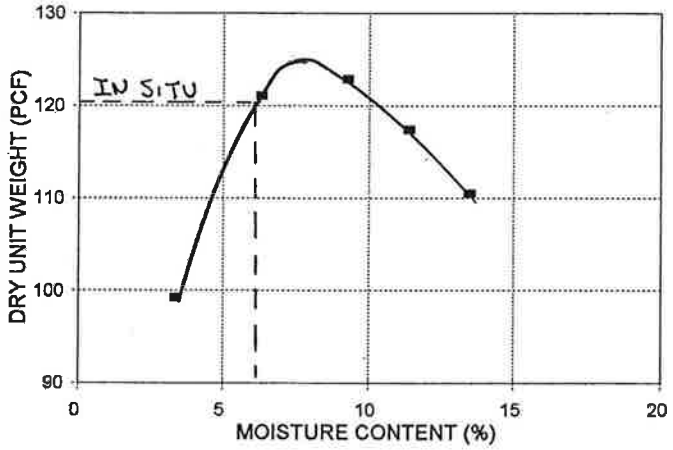
DATE: 4-25-97 **TIME:** _____

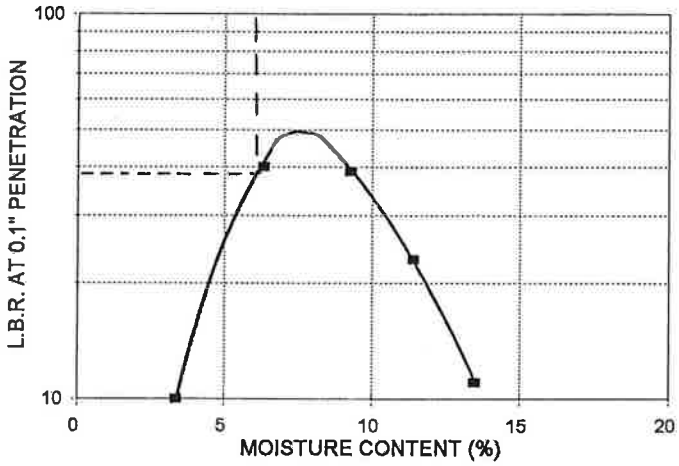
PROJECT NO: 16-03-97 **BORING NO:** LBR-3 (BL-44)

DEPTH: 0.6 - 1.2 Feet **TESTED BY:** A.M.

SOIL DESCRIPTION: REDDISH SILTY SAND, SM/A-2-4, (MATERIAL 1)

TEST RESULTS:





DATA SHEET

LIMEROCK BEARING RATIO (LBR)

TEST IDENTIFICATION:

DATE: 5-01-97 **TIME:**

PROJECT NO: 16-03-97 **BORING NO:** LBR-4 (BL-70)

DEPTH: 0.6 - 1.2 Feet **TESTED BY:** A.M.

SOIL DESCRIPTION: REDDISH SILTY SAND, SM/A-2-4, (MATERIAL 1)

TEST DATA:

TARE NO.	1	2	3	4	5	
WT. OF TARE (g)	0.45	0.45	0.45	0.45	0.45	
WT. WET SOIL + TARE (g)	34.84	24.06	22.76	20.78	15.99	
WT. DRY SOIL + TARE (g)	33.32	22.36	20.95	18.70	14.09	
WATER CONTENT, w%	4.6	7.8	8.8	11.4	13.9	

MOLD NO.	1	2	3	4	5	
WEIGHT OF SOIL AND MOLD (g)	15976.0	16561.0	16706.0	16655.0	16568.0	
WEIGHT OF MOLD (g)	12271.0	12205.0	12153.0	12124.0	12145.0	
WEIGHT OF WET SOIL (g)	3705.0	4356.0	4553.0	4531.0	4423.0	
MOLD VOLUME (ft^3)	0.077	0.077	0.077	0.077	0.077	
WET DENSITY OF SOIL (pcf)	105.9	124.5	130.1	129.5	126.4	
DRY DENSITY OF SOIL (pcf)	101.2	115.5	119.5	116.2	110.9	
WATER CONTENT, w%	4.6	7.8	8.8	11.4	13.9	
LBR	12	28	42	21	10	

TEST RESULTS:

MAX. DRY DENSITY: 119.5 (LB/CU FT)

OPT. MOISTURE CONTENT: 7.8 (%)

MAX. LBR VALUE: 42

MEASURED IN-SITU DENSITY: 112.5 (LB/CU FT)

LBR @ IN-SITU DENSITY: 22

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
DATA SHEET

LIMEROCK BEARING RATIO
(LBR)

TEST IDENTIFICATION:

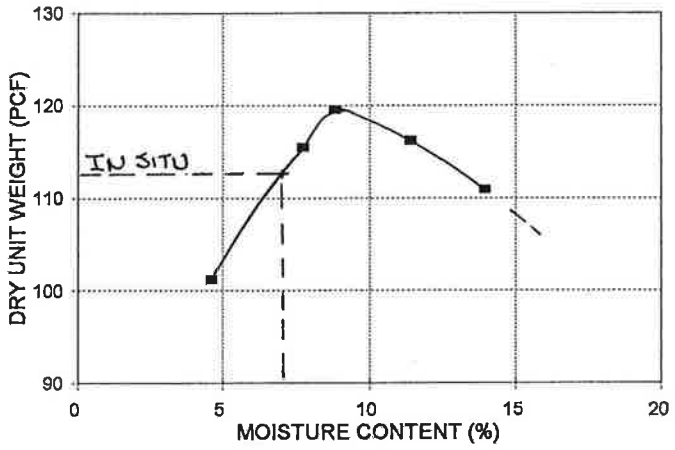
DATE: 5-01-97 **TIME:** _____

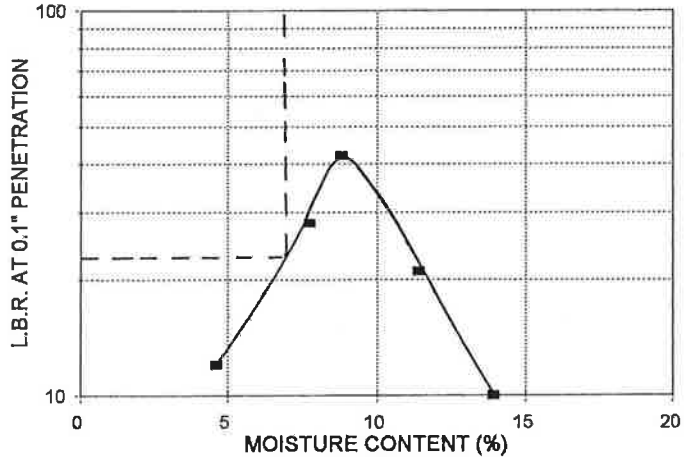
PROJECT NO: 16-03-97 **BORING NO:** LBR-4 (BL-70)

DEPTH: 0.6 - 1.2 Feet **TESTED BY:** A.M.

SOIL DESCRIPTION: REDDISH SILTY SAND, SM/A-2-4, (MATERIAL 1)

TEST RESULTS:





DATA SHEET

LIMEROCK BEARING RATIO (LBR)

TEST IDENTIFICATION:

DATE: 5-04-97 **TIME:** _____

PROJECT NO: 16-03-97 **BORING NO:** LBR-5 (BL-92)

DEPTH: 0.6 - 1.2 Feet **TESTED BY:** A.M.

SOIL DESCRIPTION: REDDISH SILTY SAND, SM/A-2-4, (MATERIAL 1)

TEST DATA:

TARE NO.	1	2	3	4	5	
WT. OF TARE (g)	0.45	0.45	0.45	0.45	0.45	
WT. WET SOIL + TARE (g)	27.76	26.29	23.35	24.62	24.26	
WT. DRY SOIL + TARE (g)	26.38	24.53	21.55	22.22	21.40	
WATER CONTENT, w%	5.3	7.3	8.5	11.0	13.7	

MOLD NO.	1	2	3	4	5	
WEIGHT OF SOIL AND MOLD (g)	15719.0	16262.0	16723.0	16723.0	16170.0	
WEIGHT OF MOLD (g)	12123.0	12144.0	12282.0	12237.0	12219.0	
WEIGHT OF WET SOIL (g)	3596.0	4118.0	4441.0	4486.0	3951.0	
MOLD VOLUME (ft^3)	0.077	0.077	0.077	0.077	0.077	
WET DENSITY OF SOIL (pcf)	102.7	117.7	126.9	128.2	112.9	
DRY DENSITY OF SOIL (pcf)	97.6	109.6	116.9	115.4	99.3	
WATER CONTENT, w%	5.3	7.3	8.5	11.0	13.7	
LBR	7	13	23	19	10	

TEST RESULTS:

MAX. DRY DENSITY: 118.3 (LB/CU FT)

OPT. MOISTURE CONTENT: 9.3 (%)

MAX. LBR VALUE: 42

MEASURED IN-SITU DENSITY: 117.7 (LB/CU FT)

LBR @ IN-SITU DENSITY: 23

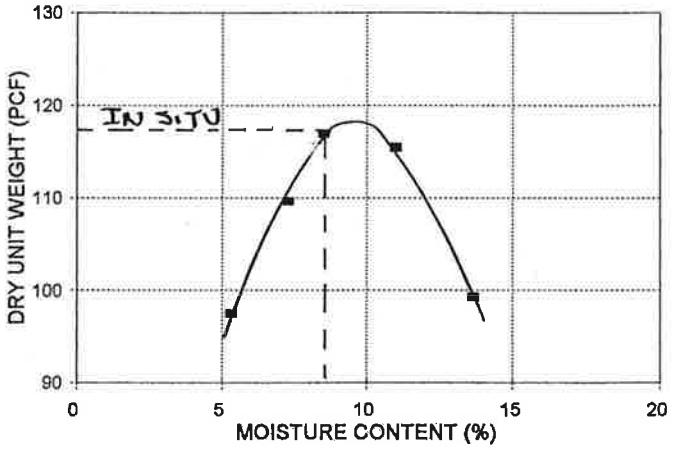
ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
DATA SHEET

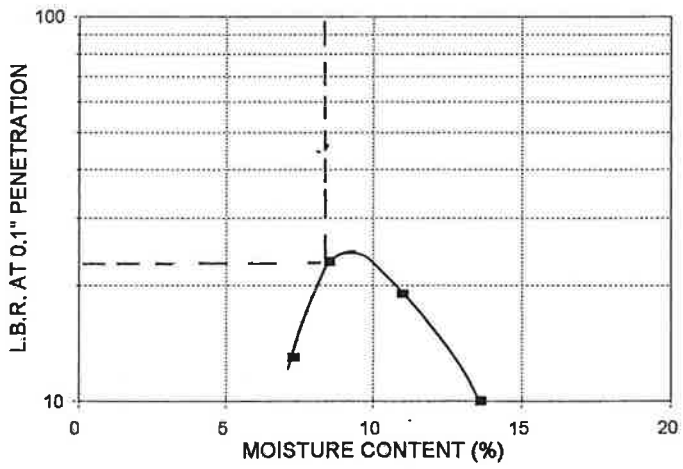
LIMEROCK BEARING RATIO
(LBR)

TEST IDENTIFICATION:

DATE:	5-04-97	**TIME:**	
PROJECT NO:	16-03-97	**BORING NO:**	LBR-5 (BL-92)
DEPTH:	0.6 - 1.2 Feet	**TESTED BY:**	A.M.
SOIL DESCRIPTION:	REDDISH SILTY SAND, SM/A-2-4, (MATERIAL 1)		

TEST RESULTS:





APPENDIX E

CORROSIVITY TEST RESULTS

DATA SHEET

SOIL/WATER RESISTIVITY

(ASTM G-57)

DATE:	4-11-97	TIME:	
PROJECT NO:	16-03-97	BORING NO:	C-2
DEPTH:	5 - 6 FEET	TESTED BY:	
SOIL DESCRIPTION:	BROWN CLAYEY SAND (SC/A-2-60 (MATERIAL 4))		

DIRECT (SOIL) RESISTANCE MEASUREMENT

Soil Resistivity:	37,000	ohm-cm	ENVIRONMENTAL CLASSIFICATION :	SLIGHTLY AGGRESSIVE

Soil pH

pH Reading:	5.74	ENVIRONMENTAL CLASSIFICATION :	EXTREMELY AGGRESSIVE

SOIL CHEMICALS

Chlorides:	8	ppm	ENVIRONMENTAL CLASSIFICATION :	SLIGHTLY AGGRESSIVE
Sulfates:	1	ppm	ENVIRONMENTAL CLASSIFICATION :	SLIGHTLY AGGRESSIVE

DIRECT (WATER) RESISTANCE MEASUREMENT

Water Resistivity:	11,200	ohm-cm	ENVIRONMENTAL CLASSIFICATION :	SLIGHTLY AGGRESSIVE

WATER pH

pH Reading:	6.3	ENVIRONMENTAL CLASSIFICATION :	MODERATELY AGGRESSIVE

WATER CHEMICALS

Chlorides:	5	ppm	ENVIRONMENTAL CLASSIFICATION :	SLIGHTLY AGGRESSIVE
Sulfates:	6	ppm	ENVIRONMENTAL CLASSIFICATION :	SLIGHTLY AGGRESSIVE

SUMMARY **ENVIRONMENTAL CLASSIFICATION:** **EXTREMELY AGGRESSIVE**