Florida Department of Environmental Protection

Bureau of Mining and Minerals Regulation
2051 East Paul Dirac Drive
Tallahassee, Florida 32310-3760

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

TRANSMITTAL MEMORANDUM

DATE: August 13, 2010

FILE NO.: 300890-002

TO: Listed Below

APPLICANT: Outlaw Ridge, Inc.

FROM: Alan Whitehouse
Bureau of Mining and Minerals Regulation
Department of Environmental Protection
2051 East Paul Dirac Drive
Tallahassee, Florida 32310-3760

PROJECT NAME: Lago Verde Mine

The attached application was submitted to the Bureau of Mining and Minerals Regulation. We are currently processing the request as required by Chapters 373 and 403, Florida Statutes. Be advised that the proposed activity may be modified as processing of the application proceeds.

This is your agency's opportunity to provide comments on and/or to concur with or object to the proposed project. Please provide information concerning the following in the vicinity of this project:

- surface water, stormwater, and well construction approvals;
- public drinking water supplies;
- surface and groundwater monitoring programs;
- greenways, public trails, preservation areas, springs and parks; and
- listed species.

Return your written comments (referencing the applicant's name, project name and file number) to the address provided above, **within 24 days from the date of this memorandum.** Your comments will be used in our evaluation of the proposed activity. Alternatively, if you do not have adequate information to provide comments at this time and wish to preserve your ability to comment as the application is processed, you must submit a written request for additional time to comment by this same date.

If you wish to receive a copy of the application upon its completion or if you wish to receive a copy of final agency action regarding this project, please notify us. If you have questions, please call me at (850)488-8217, fax (850)488-1254, or e-mail alan.whitehouse@dep.state.fl.us.

Attachments: Joint Application, or ERP Notice of Receipt of Application, Sections A and C

cc: DEP, Southwest District, Bill Vorstadt
DEP, Southwest District, Yanisa Angulo
SFWMD, Brooksville Regulation, Water Use Permitting
Greg Hitz, Lampl Herbert Consultants, Inc.
Pasco County Development, Dianna Rawleigh
Tampa Bay Water, Terry Thomas

Creative Environmental Solutions, Inc.

Geologists ▸ Engineers ▸ Environmental Scientists

700 DeSoto Avenue • Brooksville, FL • 34601

August 10, 2010

Mr. Howard Hayes
Florida Department of Environmental Protection
Bureau of Mine Reclamation
2051 E. Dirac Drive
Tallahassee, FL 32310-3760

Re: ERP Application Package
Outlaw Ridge, Inc - Lago Verde Mine
Pasco County, FL

Dear Howard:

On behalf of Outlaw Ridge, Inc., the property owner and mine operator, Creative Environmental Solutions, Inc. (CES) is submitting this environment resource permit (ERP) application for the above referenced project. A pre-application meeting was held at your office on May 14, 2010. The Lago Verde Mine is currently a permitted sand mine operating under an ERP from the Southwest Florida Water Management District (SWFWMD). Outlaw Ridge, Inc. now wishes to obtain a permit from the Florida Department of Environmental Protection to mine limestone within the project area currently permitted by SWFWMD.

Enclosed for your review are an original and four copies of Sections A, C, and E of the ERP application and five sets of supporting documentation. Please contact Tammy Reed at 352-377-0204 or by email at treed@creativeenvironmental.com if you have any questions. Thank you for your assistance with this project.

Sincerely

George K. Foster, P.G.
President

Cc: John Dalfino - Outlaw Ridge, Inc.
Stuart Cullen - Brown & Cullen, Inc.

Tel: 352.796.3374 • Fax: 352.796.2449
info@creativeenvironmental.com


Received
FDEP
AUG 12 2010
BMMR
Tallaha

FORM#: 62-343.900(1)
FORM TITLE: JOINT ENVIRONMENTAL
RESOURCE PERMIT APPLICATION
DATE: October 3, 1995

JOINT APPLICATION FOR ENVIRONMENTAL RESOURCE PERMIT/

AUTHORIZATION TO USE SOVEREIGN SUBMERGED LANDS/

FEDERAL DREDGE AND FILL PERMIT

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION/
WATER MANAGEMENT DISTRICTS/
U.S. ARMY CORPS OF ENGINEERS

FORM #: 62-343.900 (1)
FORM TITLE: JOINT ENVIRONMENTAL RESOURCE PERMIT APPLICATION
DATE: October 3, 1995

SECTION A

FOR AGENCY USE ONLY	
ACOE Application #	DEP/WMD Application #
Date Application Received	Date Application Received
Proposed Project Lat.	Fee Received $
Proposed Project Long.	Fee Receipt #

PART 1:

Are any of the activities described in this application proposed to occur in, on, or over wetlands or other surface waters? ☐ yes ☒ no

Is this application being filed by or on behalf of a government entity or drainage district? ☐ yes ☒ no

PART 2:

A. Type of Environmental Resource Permit Requested (check at least one). See Attachment 2 for thresholds and descriptions.

- ☐ Noticed General - include information requested in Section B.
- ☐ Standard General (Single Family Dwelling) - include information requested in Sections C and D.
- ☐ Standard General (all other Standard General projects) - include information requested in Sections C and E.
- ☐ Individual (Single Family Dwelling) - include information requested in Sections C and D.
- ☒ Individual (all other Individual projects) - include information requested in Sections C and E.
- ☐ Conceptual - include information requested in Sections C and E.
- ☐ Mitigation Bank Permit (construction) - include information requested in Sections C and F. (If the proposed mitigation bank involves the construction of a surface water management system requiring another permit defined above, check the appropriate box and submit the information requested by the applicable section.)
- ☐ Mitigation Bank (conceptual) - include information requested in Sections C and F.

B. Type of activity for which you are applying (check at least one)

- ☐ Construction or operation of a new system, other than a solid waste facility, including dredging or filling in, on or over wetlands and other surface waters.
- ☐ Construction, expansion or modification of a solid waste facility.
- ☐ Alteration or operation of an existing system which was not previously permitted by a WMD or DEP.
- ☒ Modification of a system previously permitted by a WMD or DEP

  Provide previous permit numbers: 44031958.000

  - ☐ Alteration of a system
  - ☐ Abandonment of a system
  - ☐ Removal of a system
  - ☐ Extension of permit duration
  - ☐ Construction of additional phases of a system

C. Are you requesting authorization to use Sovereign Submerged Lands?

☐ yes ☒ no

(See Section G and Attachment 5 for more information before answering this question.)

D. For activities in, on, or over wetlands or other surface waters, check type of federal dredge and fill permit requested:

☐ Individual ☐ Programmatic General ☐ General

☐ Nationwide X Not Applicable

E. Are you claiming to qualify for an exemption? ☐ yes ☒ no

If yes, provide rule number if known. ____

FORM #: 62-343.900 (1)
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DATE: October 3, 1995

PART 3: A. OWNER(S) OF LAND	B. ENTITY TO RECEIVE PERMIT (IF OTHER THAN OWNER)
Name Outlaw Ridge, Inc.	Name N/A
Title and Company John Dalfino, President	Title and Company
Address 16107 US Highway 41	Address
City, State, Zip Spring Hill, FL 34610	City, State, Zip
Telephone and Fax 352-797-0200/352-797-0204 (fax)	Telephone and Fax
E-mail Address: (optional)	E-mail Address: (optional)
C. AGENT AUTHORIZED TO SECURE PERMIT	**D. CONSULTANT (IF DIFFERENT FROM AGENT)**
Name George K. Foster, P.G.	Name N/A
Title and Company Creative Environmental Solutions, Inc.	Title and Company
Address 700 DeSoto Avenue	Address
City, State, Zip Brooksville, FL 34601	City, State, Zip
Telephone and Fax 352-796-3374/352-796-2449 (Fax)	Telephone and Fax
E-mail Address: (optional) gfoster@creativeenvironmental.com	E-mail Address: (optional)

PART 4: (Please provide metric equivalent for federally funded projects):

A. Name of Project, including phase if applicable: Lago Verde Mine

B. Is this application for part of a multi-phase project? ☐ Yes X No

C. Total applicant-owned area contiguous to the project? 97.53 ac.; _____ ha.

D. Total area served by the system: 55.05 ac.; _____ ha.

E. Impervious area for which a permit is sought: 0 ac.; _____ ha.

F. Volume of water that the system is capable of impounding: 1179.8 ac. ft.; _____ m^3

G. What is the total area of work in, on, or over wetlands or other surface waters?
0 ac.; _____ ha.; _____ sq. ft.; _____ sq. m.

H. Total volume of material to be dredged: N/A yd^3; _____ m^3

I. Number of new boat slips proposed: 0 wet slips; 0 dry slips

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DATE: October 3, 1995

PART 5:

Project location (use additional sheets if needed):
County(ies) **Pasco**

Section(s) **15**	Township **24S**	Range **18E**
Section(s)	Township	Range
Section(s)	Township	Range

Land Grant name, if applicable: **N/A**

Tax Parcel Identification Number: **15-24-18-0000-01200-0000**

Street Address, Road, or other location: **16001 US Highway 41**

City, Zip Code, if applicable: **Spring Hill, FL 34610-5438**

PART 6: Describe in general terms the proposed project, system, or activity.

This is an existing sand mine permitted under a General Construction Environmental Resource Permit (ERP) issued by the Southwest Florida Water Management District (SWFWMD). The owner and mine operator are submitting this ERP application for mining limestone that lies beneath the sand to an approximate depth of 120 feet below land surface in the footprint of the project area currently permitted by SWFWMD. No wetlands are present within the project boundary. The surface water management system is designed to hold the 100 year/24 hour storm event. No discharge is proposed off-site and all water will be contained and/or routed back into the pit. No dewatering is proposed. Blasting is proposed to facilitate mining and the limestone will be crushed, screened and washed on-site to make aggregate.

FORM #: 62-343.900 (1)
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PART 7:

A. If there have been any pre-application meetings, including on-site meetings, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives.

5/14/2010 at FDEP BMR. FDEP Staff - Alan Whitehouse, Tracy Freiwald, Stan Inabinet, Howard Haves. George Foster and Tammy Reed - Creative Environmental Solutions, Inc. Project Engineer - Stuart Cullen-Brown & Cullen, Inc. John Dalfino, President of Outlaw Ridge, Inc.

B. Please identify by number any MSSW/Wetland Resource/ERP/ACOE Permits pending, issued or denied for projects at the location, and any related enforcement actions.

Agency	Date	No.\Type of Application	Action Taken
SWFWMD	**1/7/2008**	**44031958.000 ERP General Construction**	**Issued**
____	____	____	____
____	____	____	____

C. Note: The following information is required for projects proposed to occur in, on or over wetlands that need a federal dredge and fill permit or an authorization to use state owned submerged lands. Please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding application) and/or (for proprietary authorizations) is located within a 500 ft. radius of the applicant's land. Please attach a plan view showing the owner's names and adjoining property lines. Attach additional sheets if necessary. **N/A**

1. 2.

3. 4.

5. 6.

7. 8.

FORM #: 62-343.900 (1)
FORM TITLE: JOINT ENVIRONMENTAL RESOURCE PERMIT APPLICATION
DATE: October 3, 1995

PART 8:

A. By signing this application form, I am applying, or I am applying on behalf of the applicant, for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application and represent that such information is true, complete and accurate. I understand this is an application and not a permit, and that work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto, does not relieve me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of the applicant, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

George K. Foster, P.G.
Typed/Printed Name of Applicant (if no Agent is used) or Agent (If one is so authorized below)

Signature of Applicant/Agent — Date: 8/10/10

President, Creative Environmental Solutions, Inc.
(Corporate Title if applicable)

AN AGENT MAY SIGN ABOVE ONLY IF THE APPLICANT COMPLETES THE FOLLOWING:

B. I hereby designate and authorize the agent listed above to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above, and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirements which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

John Dalfino | X Signature of Applicant | Date: 8/4/10
Typed/Printed Name of Applicant

President, Outlaw Ridge, Inc.
(Corporate Title if applicable)

Please note: The applicant's original signature (not a copy) is required above.

PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:

C. I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor permitted work if a permit is granted.

John Dalfino | X Signature of Applicant | Date: 8/4/10
Typed/Printed Name of Applicant

President, Outlaw Ridge, Inc.
(Corporate Title if applicable)

SECTION C

Environmental Resource Permit Notice of Receipt of Application

Note: this form does not need to be submitted for noticed general permits.
This information is required in addition to that required in other sections of the application. Please submit five copies of this notice of receipt of application and all attachments with the other required information. Please submit all information on 8 1/2" x 11" paper.

Project Name	Lago Verde Mine
County	Pasco
Owner	Outlaw Ridge, Inc.
Applicant:	Outlaw Ridge, Inc. c/o John Dalfino, President
Applicant's Address:	16107 US Highway 41; Spring Hill, FL 34610

1. Indicate the project boundaries on a USGS quadrangle map. Attach a location map showing the boundary of the proposed activity. The map should also contain a north arrow and a graphic scale; show Section(s), Township(s), and Range(s); and must be of sufficient detail to allow a person unfamiliar with the site to find it. See Figures 1 & 2. ✓

2. Provide the names of all wetlands, or other surface waters that would be dredged, filled, impounded, diverted, drained, or would receive discharge (either directly or indirectly), or would otherwise be impacted by the proposed activity, and specify if they are in an Outstanding Florida Water or Aquatic Preserve:
N/A

3. Attach a depiction (plan and section views), which clearly shows the works or other facilities proposed to be constructed. Use multiple sheets, if necessary. Use a scale sufficient to show the location and type of works. See Permit Drawings.

4. Briefly describe the proposed project (such as "construct dock with boat shelter", "replace two existing culverts", "construct surface water management system to serve 150 acre residential development"):
Mining and processing of limestone .

5. Specify the acreage of wetlands or other surface waters, if any, that are proposed to be filled, excavated, or otherwise disturbed or impacted by the proposed activity:

filled 0 ac.; ___ excavated ac.;

other impacts 0 ac.

6. Provide a brief statement describing any proposed mitigation for impacts to wetlands and other surface waters (attach additional sheets if necessary):
N/A

FOR AGENCY USE ONLY

Application Name:
Application Number:
Office where the application can be inspected:

Note to Notice recipient: The information in this notice has been submitted by the applicant, and has not been verified by the agency. It may be incorrect, incomplete or may be subject to change.

NMA = not my area

SECTION E

INFORMATION REQUESTED FOR STANDARD GENERAL, INDIVIDUAL AND CONCEPTUAL ENVIRONMENTAL RESOURCE PERMIT APPLICATIONS NOT RELATED TO A SINGLE FAMILY DWELLING UNIT

Please provide the information requested below if the proposed project requires either a standard general, individual, or conceptual approval environmental resource permit and is not related to an individual, single family dwelling unit, duplex or quadruplex. The information listed below represents the level of information that is usually required to evaluate an application. The level of information required for a specific project will vary depending on the nature and location of the site and the activity proposed. Conceptual approvals generally do not require the same level of detail as a construction permit. However, providing a greater level of detail will reduce the need to submit additional information at a later date. If an item does not apply to your project, proceed to the next item. Please submit all information that is required by the Department on either 8 1/2 in. X 11 in. paper or 11 in. X 17 in. paper. Larger drawings may be submitted to supplement but not replace these smaller drawings.

I. Site Information

✓ A. Provide a map(s) of the project area and vicinity delineating USDA/SCS soil types. See Figure 3.

✓ B. Provide recent aerials, legible for photo interpretation with a scale of 1" = 400 ft, or more detailed, with project boundaries delineated on the aerial. See Figure 4. Aerial Photograph and Existing and Proposed Well Locations

✓ C. Identify the seasonal high water or mean high tide elevation and normal pool or mean low tide elevation for each on site wetland or surface water, including receiving waters into which runoff will be discharged. Include dates, datum, and methods used to determine these elevations. N/A.

( ) D. Identify the wet season high water tables at the locations representative of the entire project site. Include dates, datum, and methods used to determine these elevations. See Exhibit D.

II. Environmental Considerations

NMA A. Provide results of any wildlife surveys that have been conducted on the site, and provide any comments pertaining to the project from the Florida Game and Fresh Water Fish Commission and the U.S. Fish and Wildlife Service. See Exhibit A.

✓ B. Provide a description of how water quantity, quality, hydroperiod, and habitat will be maintained in on-site wetlands and other surface waters that will be preserved or will remain undisturbed. N/A.

NMA C. Provide a narrative description of any proposed mitigation plans, including purpose, maintenance, monitoring, and construction sequence and techniques, and estimated costs. N/A.

NMA D. Describe how boundaries of wetlands or other surface waters were determined. If there has ever been a jurisdictional declaratory statement, a formal wetland determination, a formal determination, a validated informal determination, or a revalidated jurisdictional determination, provide the identifying number. N/A.

E. Impact Summary Tables: N/A.

1. For all projects, complete Tables 1, 2 and 3 as applicable.

2. For docking facilities or other structures constructed over wetlands or other surface waters, provide the information requested in Table 4.

3. For shoreline stabilization projects, provide the information requested in Table 5.

III. Plans

Provide clear, detailed plans for the system including specifications, plan (overhead) views, cross sections (with the locations of the cross sections shown on the corresponding plan view), and profile (longitudinal) views of the proposed project. The plans must be signed and sealed by a an appropriate registered professional as required by law. Plans must include a scale and a north arrow. These plans should show the following: See attached permit drawings for A-W as applicable.

A. Project area boundary and total land area, including distances and orientation from roads or other land marks;

B. Existing land use and land cover (acreage and percentages), and on-site natural communities, including wetlands and other surface waters, aquatic communities, and uplands. Use the Florida Land Use Cover & Classification System (FLUCCS)(Level 3) for projects proposed in the South Florida Water Management District, the St. Johns River Water Management District, and the Suwannee River Water Management District and use the National Wetlands Inventory (NWI) for projects proposed in the Southwest Florida Water Management District. Also identify each community with a unique identification number which must be consistent in all exhibits.

C. The existing topography extending at least 100 feet off the project area, and including adjacent wetlands and other surface waters. All topography shall include the location and a description of known benchmarks, referenced to NGVD. For systems waterward of the mean high water (MHW) or seasonal high water lines, show water depths, referenced to mean low water (MLW) in tidal areas or seasonal low water in non-tidal areas, and list the range between MHW and MLW. For docking facilities, indicate the distance to, location of, and depths of the nearest navigational channel and access routes to the channel.

D. If the project is in the known flood plain of a stream or other water course, identify the following: 1) the flood plain boundary and approximate flooding elevations; and 2) the 100-year flood elevation and floodplain boundary of any lake, stream or other watercourse located on or adjacent to the site;

E. The boundaries of wetlands and other surface waters within the project area. Distinguish those wetlands and other surface waters that have been delineated by any binding jurisdictional determination; N/A.

F. Proposed land use, land cover and natural communities (acreage and percentages), including wetlands and other surface waters, undisturbed uplands, aquatic communities, impervious surfaces, and water management areas. Use the same classification system and community identification number used in III (B) above.

G. Proposed impacts to wetlands and other surface waters, and any proposed connections/outfalls to other surface waters or wetlands; N/A.

H. Proposed buffer zones;

I. Pre- and post-development drainage patterns and basin boundaries showing the direction of flows, including any off-site runoff being routed through or around the system; and connections between wetlands and other surface waters;

J. Location of all water management areas with details of size, side slopes, and designed water depths;

K. Location and details of all water control structures, control elevations, any seasonal water level regulation schedules; and the location and description of benchmarks (minimum of one benchmark per structure);

L. Location, dimensions and elevations of all proposed structures, including docks, seawalls, utility lines, roads, and buildings;

M. Location, size, and design capacity of the internal water management facilities;

N. Rights-of-way and easements for the system, including all on-site and off-site areas to be reserved for water management purposes, and rights-of-way and easements for the existing drainage system, if any;

O. Receiving waters or surface water management systems into which runoff from the developed site will be discharged;

P. Location and details of the erosion, sediment and turbidity control measures to be implemented during each phase of construction and all permanent control measures to be implemented in post-development conditions;

Q. Location, grading, design water levels, and planting details of all mitigation areas; N/A.

R. Site grading details, including perimeter site grading;

S. Disposal site for any excavated material, including temporary and permanent disposal sites;

T. Dewatering plan details; Dewatering is not proposed.

U. For marina facilities, locations of any sewage pumpout facilities, fueling facilities, boat repair and maintenance facilities, and fish cleaning stations; N/A.

V. Location and description of any nearby existing offsite features which might be affected by the proposed construction or development such as stormwater management ponds, buildings or other structures, wetlands or other surface waters. See permit drawings.

W. For phased projects, provide a master development plan. N/A.

IV. Construction Schedule and Techniques

Provide a construction schedule, and a description of construction techniques, sequencing and equipment. This information should specifically include the following: See permit drawings for A-G as applicable.

A. Method for installing any pilings or seawall slabs; N/A.

B. Schedule of implementation of temporary or permanent erosion and turbidity control measures;

C. For projects that involve dredging or excavation in wetlands or other surface waters, describe the method of excavation, and the type of material to be excavated; N/A.

D. For projects that involve fill in wetlands or other surface waters, describe the source and type of fill material to be used. For shoreline stabilization projects that involve the installation of riprap, state how these materials are to be placed, (i.e., individually or with heavy equipment) and whether the rocks will be underlain with filter cloth; N/A.

E. If dewatering is required, detail the dewatering proposal including the methods that are proposed to contain the discharge, methods of isolating dewatering areas, and indicate the period dewatering structures will be in place (Note: a consumptive use or water use permit may by required); Dewatering is not proposed.

F. Methods for transporting equipment and materials to and from the work site. If barges are required for access, provide the low water depths and draft of the fully loaded barge; Equipment will be transported by trucks.

G. Demolition plan for any existing structures to be removed; N/A. and

H. Identify the schedule and party responsible for completing monitoring, record drawings, and as-built certifications for the project when completed. The responsible party is Outlaw Ridge, Inc. c/o John Dalfino.

V. Drainage Information

A. Provide pre-development and post-development drainage calculations, signed and sealed by an appropriate registered professional, as follows: See Engineering Report, Exhibit B.

1. Runoff characteristics, including area, runoff curve number or runoff coefficient, and time of concentration for each drainage basin;

2. Water table elevations (normal and seasonal high) including aerial extent and magnitude of any proposed water table draw down;

3. Receiving water elevations (normal, wet season, design storm);

4. Design storms used including rainfall depth, duration, frequency, and distribution;

5. Runoff hydrograph(s) for each drainage basin, for all required design storm event(s);

6. Stage-storage computations for any area such as a reservoir, close basin, detention area, or channel, used in storage routing;

7. Stage-discharge computations for any storage areas at a selected control point, such as control structure or natural restriction;

8. Flood routings through on-site conveyance and storage areas;

9. Water surface profiles in the primary drainage system for each required design storm event(s);

10. Runoff peak rates and volumes discharged from the system for each required design storm event(s);

11. Tail water history and justification (time and elevation); and

12. Pump specifications and operating curves for range of possible operating conditions (if used in system).

B. Provide the results of any percolation tests, where appropriate, and soil borings that are representative of the actual site conditions; See Exhibit E, Soil Boring Information.

C. Provide the acreage, and percentages of the total project, of the following:
See Engineering Report Exhibit B.

1. Impervious surfaces, excluding wetlands;

2. Pervious surfaces (green areas, not including wetlands);

3. Lakes, canals, retention areas, other open water areas; and

4. Wetlands.

D. Provide an engineering analysis of floodplain storage and conveyance (if applicable), including:
See Engineering Report Exhibit B.

1. Hydraulic calculations for all proposed traversing works;

2. Backwater water surface profiles showing upstream impact of traversing works;

3. Location and volume of encroachment within regulated floodplain(s); and

4. Plan for compensating floodplain storage, if necessary, and calculations required for determining minimum building and road flood elevations.

E. Provide an analysis of the water quality treatment system including: See Engineering Report, Exhibit B.

1. A description of the proposed stormwater treatment methodology that addresses the type of treatment, pollution abatement volumes, and recovery analysis; and

2. Construction plans and calculations that address stage-storage and design elevations, which demonstrate compliance with the appropriate water quality treatment criteria.

F. Provide a description of the engineering methodology, assumptions and references for the parameters listed above, and a copy of all such computations, engineering plans, and specifications used to analyze the system. If a computer program is used for the analysis, provide the name of the program, a description of the program, input and output data, two diskette copies, if available, and justification for model selection. See Engineering Report, Exhibit B.

VI. Operation and Maintenance and Legal Documentation

A. Describe the overall maintenance and operation schedule for the proposed system.

B. Identify the entity that will be responsible for operating and maintaining the system in perpetuity if different than the permittee, a draft document enumerating the enforceable affirmative obligations on the entity to properly operate and maintain the system for its expected life, and documentation of the entity's financial responsibility for long-term maintenance. If the proposed operation and maintenance entity is not a property owner's association, provide proof of the existence of an entity, or the future acceptance of the system by an entity which will operate and maintain the system. If a property owner's association is the proposed operation and maintenance entity, provide copies of the articles of incorporation for the association and copies of the declaration, restrictive covenants, deed restrictions, or other operational documents that assign responsibility for the operation and maintenance of the system. Provide information ensuring the continued adequate access to the system for maintenance purposes. Before transfer of the system to the operating entity will be approved, the permittee must document that the transferee will be bound by all terms and conditions of the permit. The entity responsible is the current owner and mine operator – Outlaw Ridge, Inc. c/o John Dalfino.

C. Provide copies of all proposed conservation easements, storm water management system easements, property owner's association documents, and plats for the property containing the proposed system. N/A.

D. Provide indication of how water and waste water service will be supplied. Letters of commitment from off-site suppliers must be included. Water is provided by an on-site well.

E. Provide a copy of the boundary survey and/or legal description and acreage of the total land area of contiguous property owned/controlled by the applicant. See permit drawings.

VII. Water Use

A. Will the surface water system be used for water supply, including landscape irrigation, or recreation. Water is provided by an on-site well.

B. If a Consumptive Use or Water Use permit has been issued for the project, state the permit number. WUP 20013090.000. This WUP is being modified to address mining of limestone.

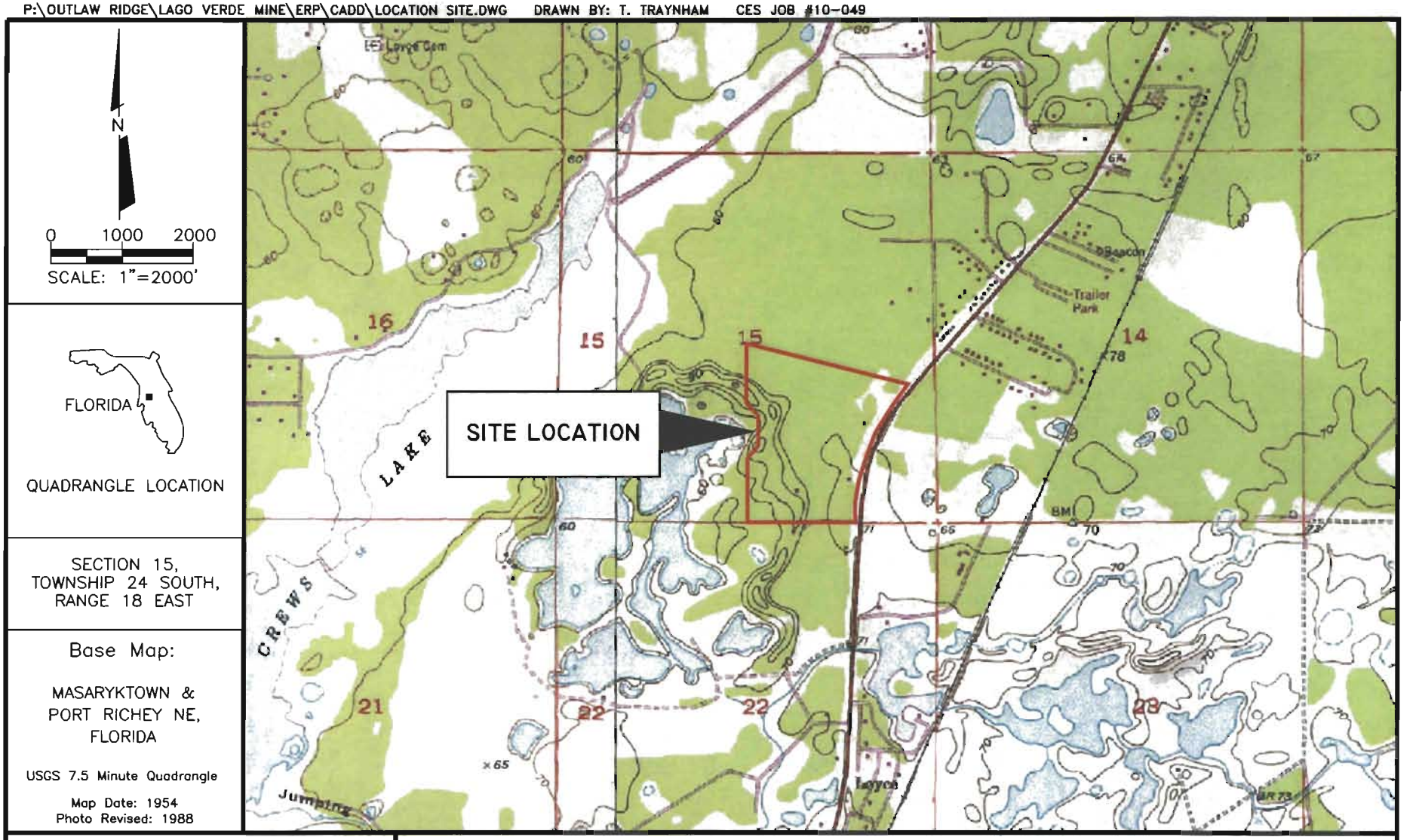
C. If no Consumptive Use or Water Use permit has been issued for the project, indicate if such a permit will be required and when the application for a permit will be submitted. A modification of the current WUP is being submitted to address mining of limestone.

D. Indicate how any existing wells located within the project site will be utilized or abandoned. All existing wells will be utilized. See Figure 4 – Location and identification of existing wells.

FIGURES

PERMIT DRAWINGS

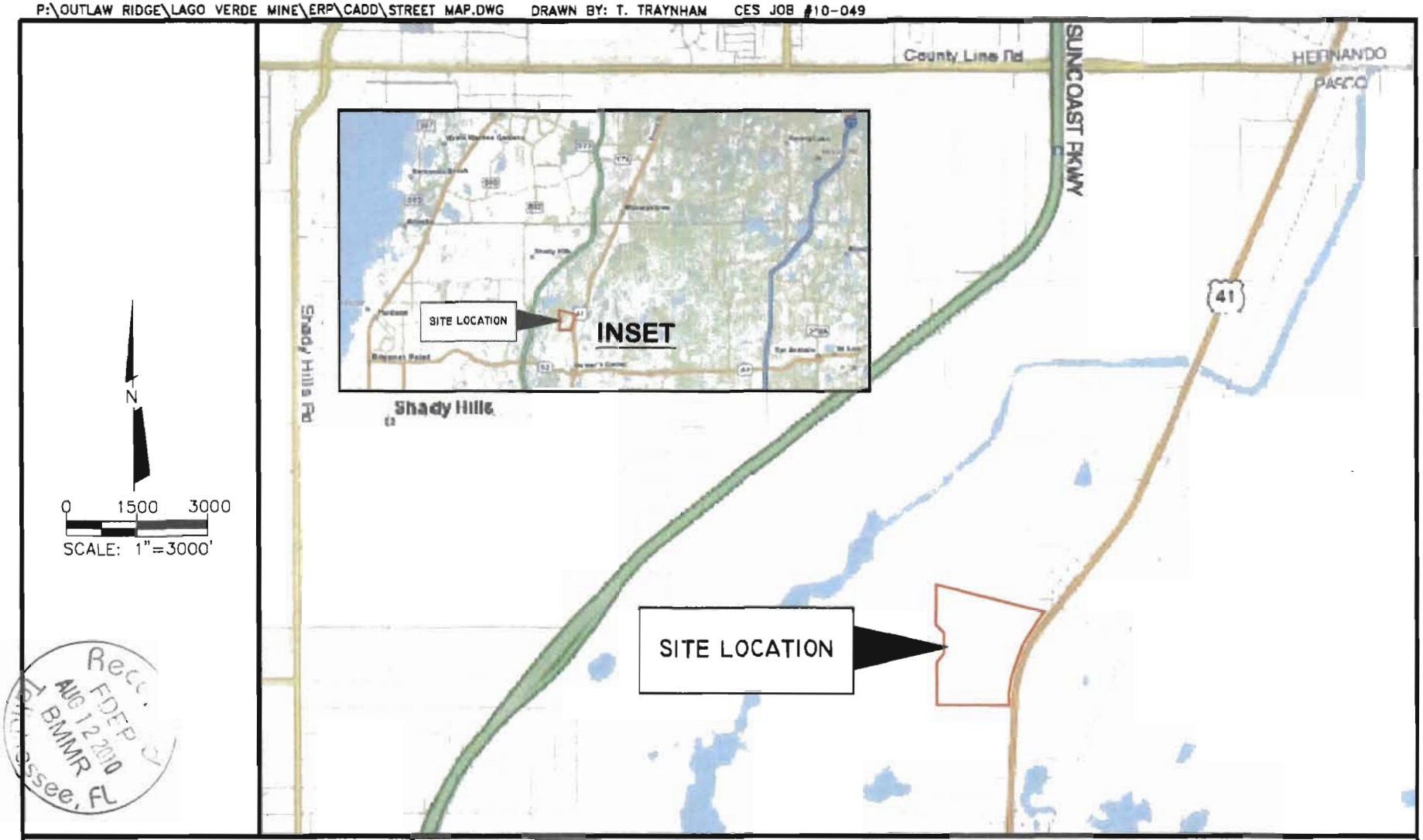
P:\OUTLAW RIDGE\LAGO VERDE MINE\ERP\CADD\LOCATION SITE.DWG DRAWN BY: T. TRAYNHAM CES JOB #10-049



Creative Environmental Solutions, Inc.
700 DeSoto Avenue
Brooksville, Florida 34601
Phone: (352) 796-3374 Fax: (352) 796-2449

FIGURE 1
USGS TOPO MAP
LAGO VERDE MINE
PASCO COUNTY, FLORIDA

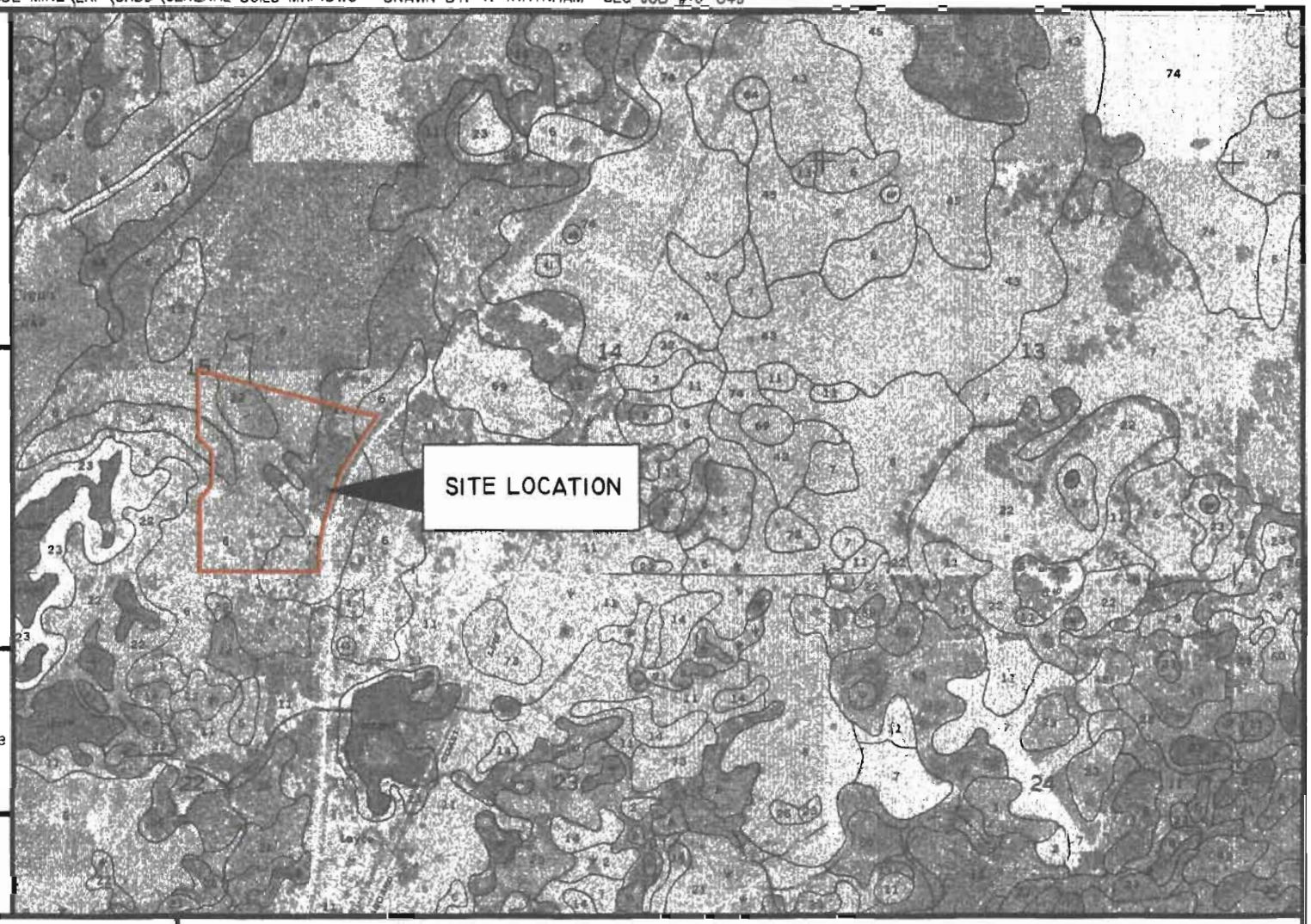
P:\OUTLAW RIDGE\LAGO VERDE MINE\ERP\CADD\STREET MAP.DWG DRAWN BY: T. TRAYNHAM CES JOB #10-049



Creative Environmental Solutions, Inc.
700 DeSoto Avenue
Brooksville, Florida 34601
Phone: (352) 796-3374 Fax: (352) 796-2449

FIGURE 2
SITE LOCATION MAP
LAGO VERDE MINE
PASCO COUNTY, FLORIDA

P:\OUTLAW RIDGE\LAGO VERDE MINE\ERP\CADD\GENERAL SOILS MAP.DWG DRAWN BY: T. TRAYNHAM CES JOB #10-049



Creative Environmental Solutions, Inc.
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Brooksville, Florida 34601
PhoneE: (352) 796-3374 Fax: (352) 796-2449

FIGURE 3
GENERAL SOILS MAP
LAGO VERDE MINE
PASCO COUNTY, FLORIDA

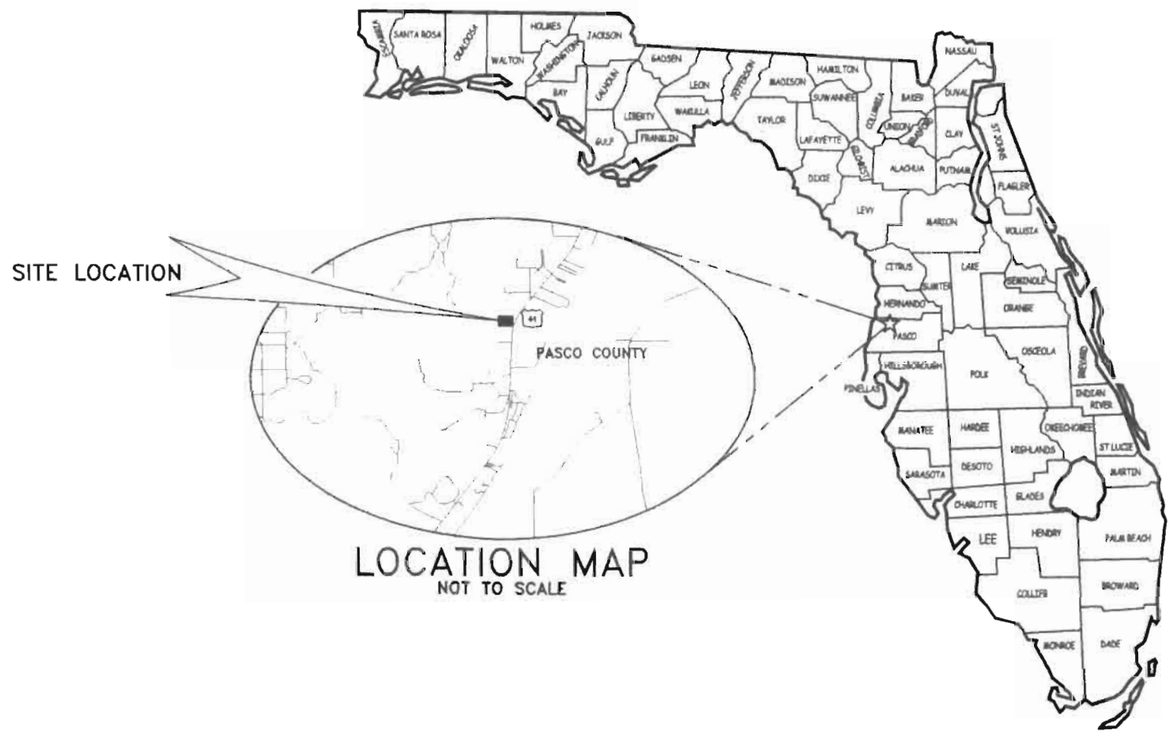
PERMIT DRAWINGS
FOR
LAGO VERDE MINE

SITE OWNER

OUTLAW RIDGE, INC

MAILING ADDRESS:
16107 U.S. HIGHWAY 41
SPRING HILL, FL 34610
TELEPHONE: 352 757-0200

PHYSICAL ADDRESS:
15001 U.S. HIGHWAY 41
SPRING HILL, FL 34610



LOCATION MAP
NOT TO SCALE

LAGO VERDE MINE	
SHEET INDEX	
SHEET NO.	TITLE
1	COVER SHEET
2	EXISTING CONDITIONS
3	PRE-DEVELOPMENT F.L.U.C.F.C.S.
4	MINE PLAN
5	POST-DEVELOPMENT F.L.U.C.F.C.S. & RECLAMATION
6	POST-DEVELOPMENT DRAINAGE.

No.	DATE	REVISION NOTE	BY	APPR.

BROWN & CULLEN INC.
CIVIL ENGINEERS and LAND PLANNERS
3530 N.W. 43rd Street
Gainesville, Florida 32606
PHONE (352) 375-8999 FAX (352) 375-0833
E-MAIL: bcl@brown-cullen.com
St. of Fla. Brd. of Prof. Eng Cert. of Auth. No. 8263

PROJECT ENGINEER: STUART L. CULLEN, P.E. FL. REG. No. 51377
PROJECT NO.: 264-10-08
DATE: AUGUST, 2010
PROJECT MGR.: SLC
DRAWN BY: RLW
SHEET: 1
OF: 6

LEGEND:

- PROPERTY BOUNDARY - ±60.8 ACRES
- EXISTING TOPOGRAPHY
- DIRECTION OF RUNOFF

N

100 50 0 100 200 300

SCALE 1" = 100'

Received
EDFF
AUG 12 2010
Bı
Tallahas

No.	DATE	REVISION NOTE	BY	APPR.

CLIENT:

OUTLAW RIDGE, INC

PROJECT:

LAGO VERDE MINE

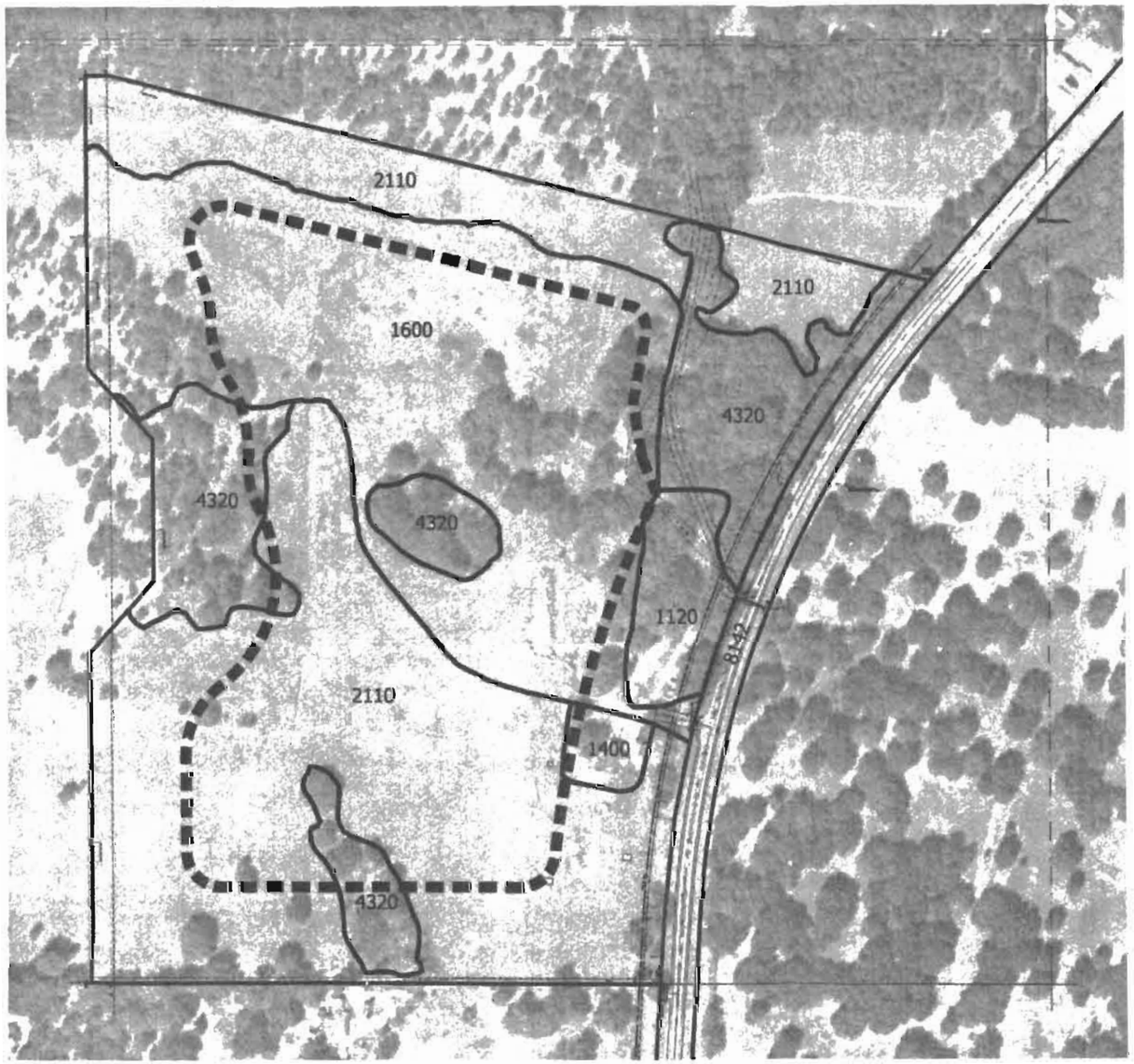
SHEET TITLE:

EXISTING CONDITIONS

BROWN & CULLEN INC.
CIVIL ENGINEERS and LAND PLANNERS
3530 N.W. 43rd Street
Gainesville, Florida 32606
PHONE: (352) 375-8999 FAX: (352) 375-0833
E-MAIL: bci@brown-cullen.com
St. of Fla. Brd. of Prof. Eng Cert. of Auth. No. 8263

PROJECT ENGINEER: STUART I. CULLEN, P.E. FL. REG. No. 51337

PROJECT NO.	DATE:
264-10-09	AUGUST, 2010
PROJECT MGR.	DRAWN BY:
SIC	RLW
SHEET	OF
2	6



LEGEND:

PROPERTY BOUNDARY - ±97.52 AC
PROJECT AREA - ±44.39 AC

1631 PRE-DEVELOPMENT F.L.U.C.F.C.S.

PRE-DEVELOPMENT F.L.U.C.F.C.S. WITHIN PROPERTY BOUNDARY*

NO.	DESCRIPTION	ACRES	%
1120	MOBILE HOME UNITS	3.29	3.4
1400	COMMERCIAL AND SERVICES	1.20	1.2
1600	EXTRACTIVE	33.79	34.7
2110	IMPROVED PASTURE	46.51	47.7
4320	SAND PINE OAK	12.81	13.1
		97.52±	100

*FLORIDA LAND USE, COVER, AND FORMS CLASSIFICATION SYSTEM (FDOT - JANUARY 1999)
NOTE: F.L.U.F.C.S. CODE 8142 - DIVIDED HIGHWAY (FEDERAL-STATE) SHOWN - NOT WITHIN P.B.

100' 50' 0 100' 200' 300'
SCALE 1" = 100'

Received FDEP 2010 BMP Orlando

No.	DATE	REVISION NOTE	BY	APPD

CLIENT: OUTLAW RIDGE, INC

PROJECT: LAGO VERDE MINE

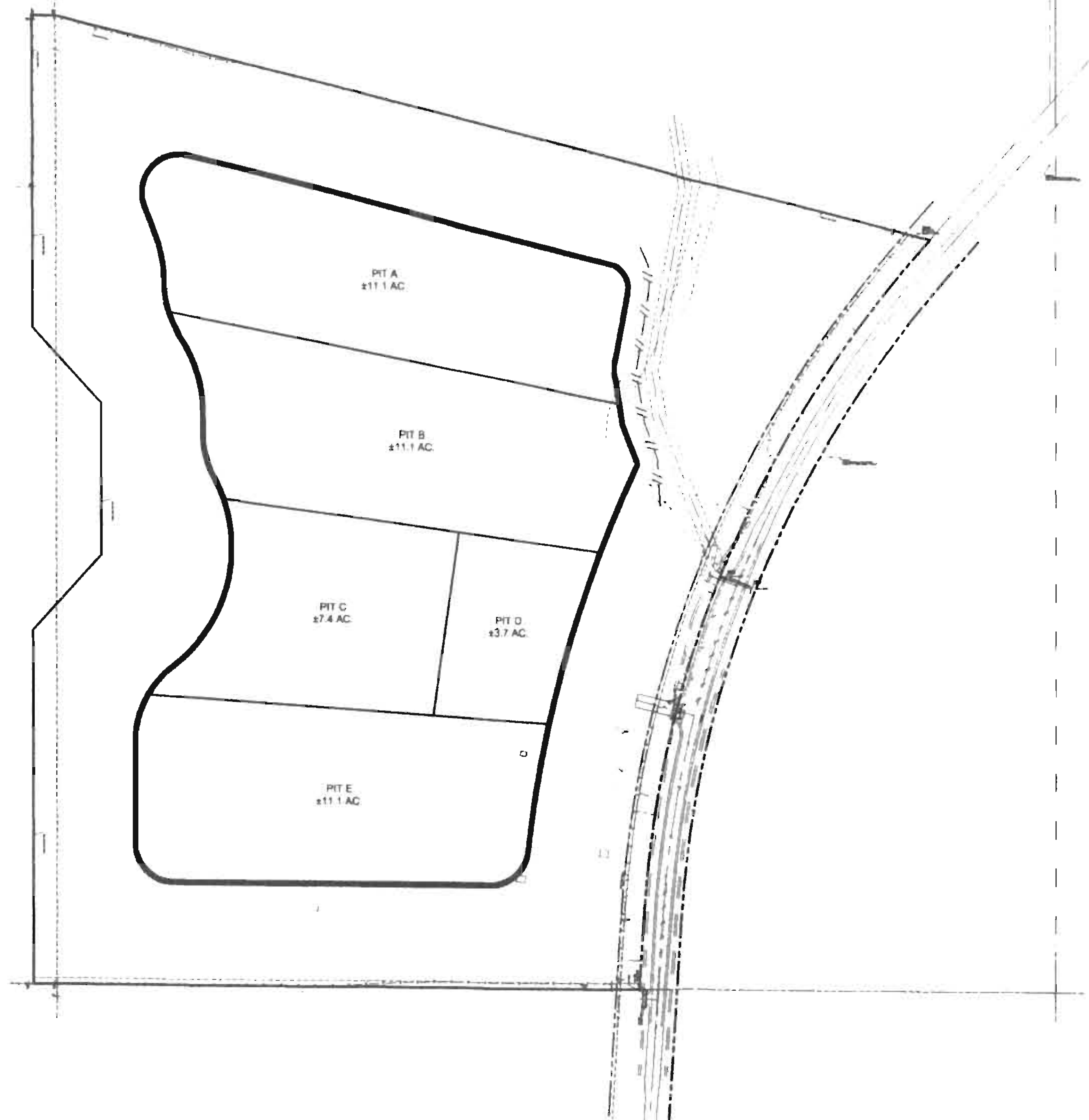
SHEET TITLE: PRE-DEVELOPMENT F.L.U.C.F.C.S.

BROWN & CULLEN INC. CIVIL ENGINEERS and LAND PLANNERS

3530 N.W. 43rd Street
Gainesville, Florida 32606
PHONE: (352) 375-8999 FAX: (352) 375-0833
E-MAIL: bc@brown-cullen.com
St. of Fla. Brd. of Prof. Eng. Cert. of Auth. No. 8263

PROJECT ENGINEER: STUART T. CULLEN, P.E. FL. REG. No. 51337
PROJECT NO.: 284-10-09
DATE: AUGUST, 2010
PROJECT MGR.: SJC
DRAWN BY: RLN
SHEET: 3
OF: 6

Aug 11, 2010 - 11:25:14 - sheare - \\Home\Jobs\2841009 - Lago Verde Mine\ - 2841009R - DP.dwg



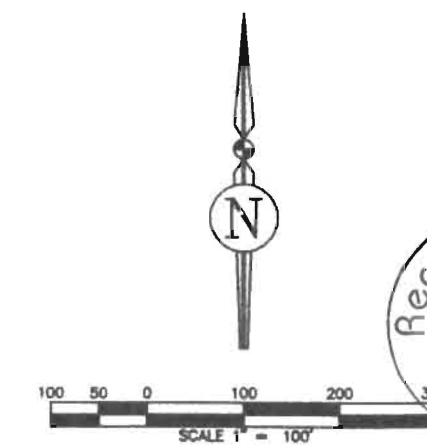
LAGO VERDE MINE
MINE OPERATION PLAN

PHASE	ACTIVITY	AREA	DURATION
I	SAND MINING	A	2008–2011
II	SAND MINING	B	2012–2015
	LIMEROCK MINING	A	
	LIMEROCK PROCESSING	D	
III	SAND MINING	C	2016–2019
	LIMEROCK MINING	B	
	LIMEROCK PROCESSING	D	
	RECLAMATION	A	
IV	SAND MINING	E	2020–2023
	LIMEROCK MINING	C	
	LIMEROCK PROCESSING	D	
	RECLAMATION	A & B	
V	SAND MINING	D	2024–2027
	LIMEROCK MINING	E	
	LIMEROCK PROCESSING	WEST OF PIT	
	RECLAMATION	A, B & C	
VI	LIMEROCK MINING	D	2024–2027
	LIMEROCK PROCESSING	WEST OF PIT	
	RECLAMATION	A, B, C & E	
VII	RECLAMATION	ALL AREAS	2030–2032

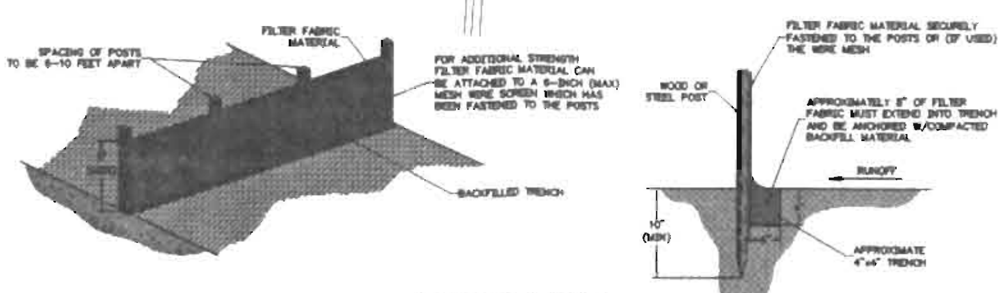
LEGEND:

- PROPERTY BOUNDARY
- PROJECT AREA
- —//—//—//— SILT FENCE

NOTE: THERE ARE NO OCCUPIED STRUCTURES WITHIN 500' OF THE PROPERTY LINE AND THEREFORE NO OCCUPIED STRUCTURES WITHIN 500' OF ANY BLAST RADIUS.

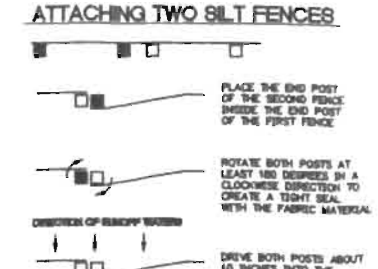


Received FDEP AUG 12 2010 Tallahassee, FL



TYPE III SILT FENCE
N.T.S.
PER PLATE 4.06d FLORIDA EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL

ATTACHING TWO SILT FENCES



No.	DATE	REVISION NOTE	BY	APPR.

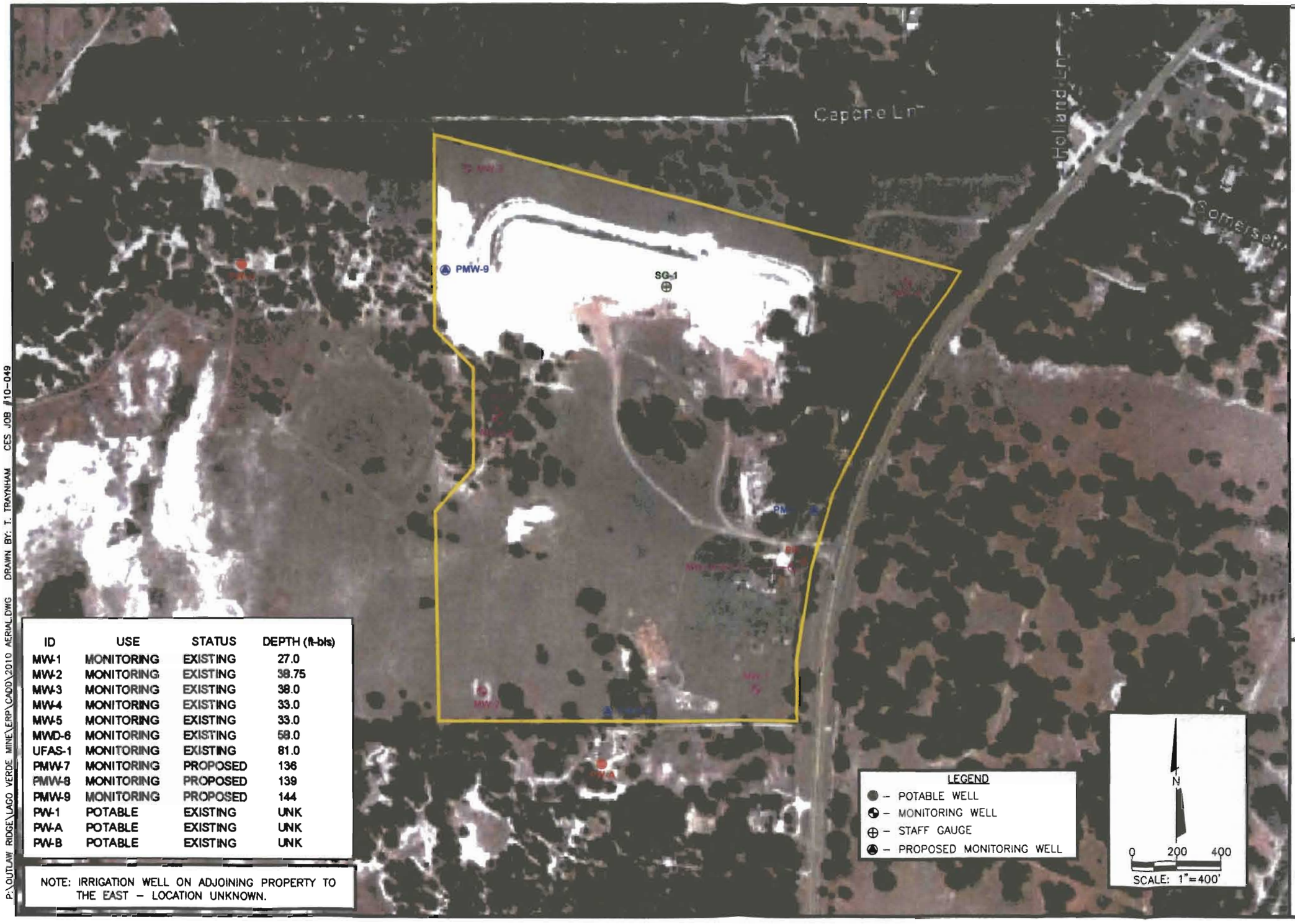
CLIENT: OUTLAW RIDGE, INC

PROJECT: LAGO VERDE MINE

SHEET TITLE: MINE PLAN

BROWN & CULLEN INC.
CIVIL ENGINEERS and LAND PLANNERS
3530 N.W. 43rd Street
Gainesville, Florida 32606
PHONE: (352) 375-8999 FAX: (352) 375-0833
E-MAIL: bci@brown-cullen.com
St. of Fla. Brd. of Prof. Eng Cert. of Auth. No. 8263

PROJECT ENGINEER: STUART I. CULLEN, P.E.	FL REG. No. 51337
PROJECT NO. 264-10-09	DATE AUGUST, 2010
PROJECT MGR. SIC	DRAWN BY RLW
SHEET 4	OF 6



ID	USE	STATUS	DEPTH (ft-bls)
MW-1	MONITORING	EXISTING	27.0
MW-2	MONITORING	EXISTING	38.75
MW-3	MONITORING	EXISTING	38.0
MW-4	MONITORING	EXISTING	33.0
MW-5	MONITORING	EXISTING	33.0
MWD-6	MONITORING	EXISTING	58.0
UFAS-1	MONITORING	EXISTING	81.0
PMW-7	MONITORING	PROPOSED	136
PMW-8	MONITORING	PROPOSED	139
PMW-9	MONITORING	PROPOSED	144
PW-1	POTABLE	EXISTING	UNK
PW-A	POTABLE	EXISTING	UNK
PW-B	POTABLE	EXISTING	UNK

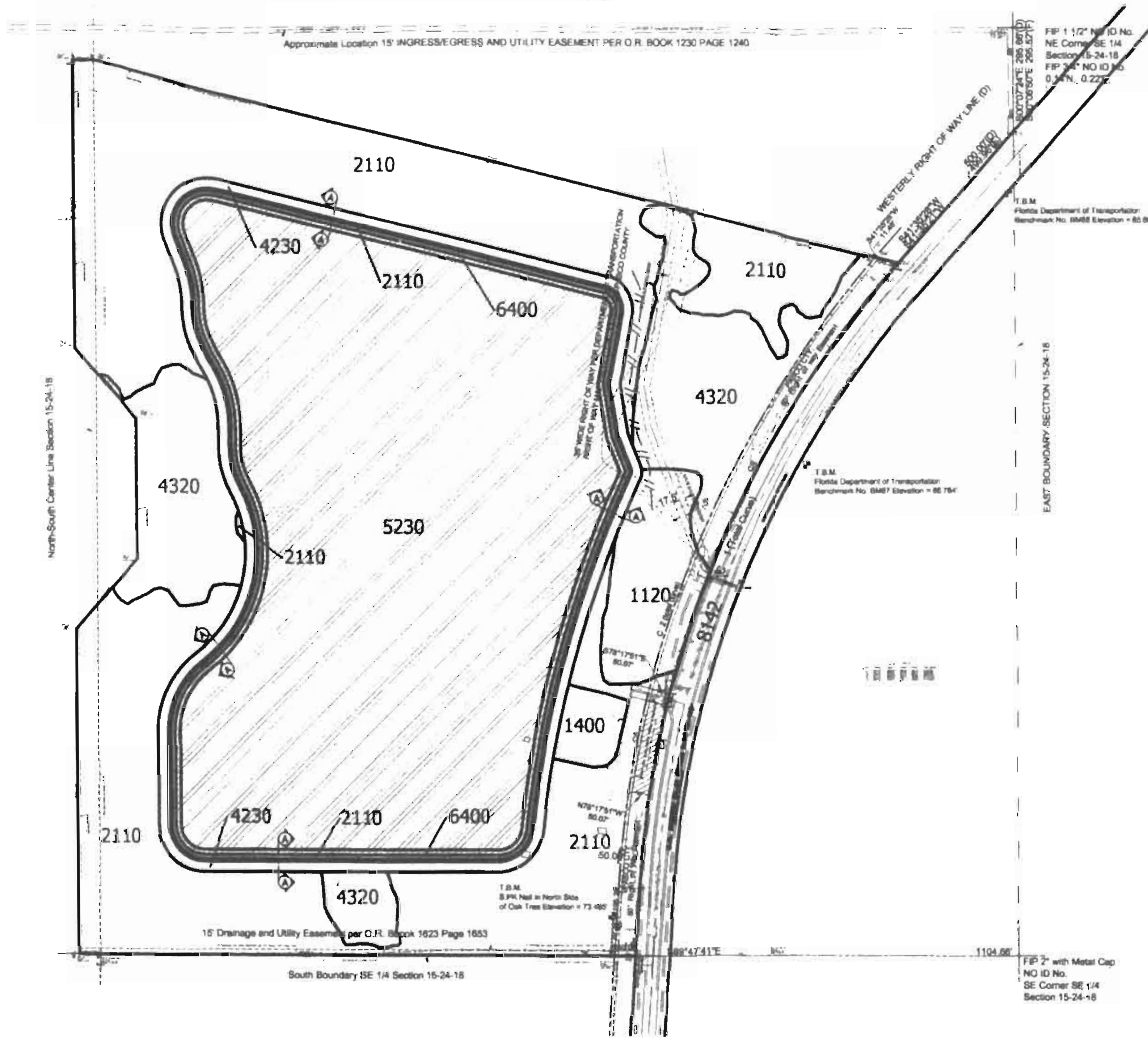
NOTE: IRRIGATION WELL ON ADJOINING PROPERTY TO THE EAST – LOCATION UNKNOWN.

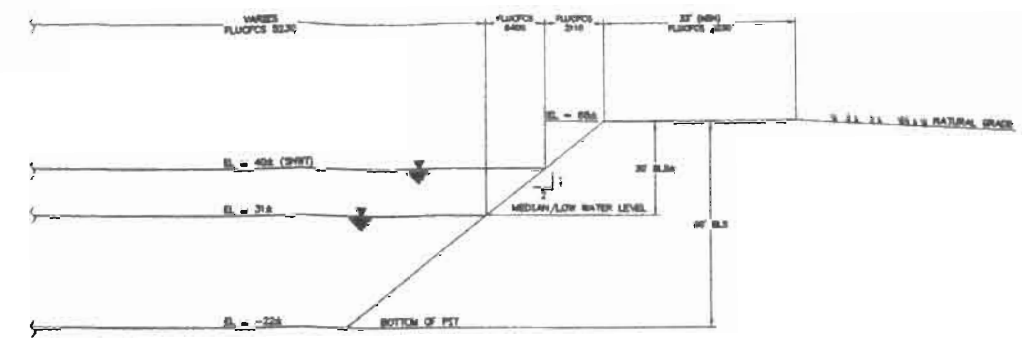
LEGEND
- ● – POTABLE WELL
- ◔ – MONITORING WELL
- ⊕ – STAFF GAUGE
- ◭ – PROPOSED MONITORING WELL

FIGURE 4
APRIL 5, 2010 AERIAL PHOTOGRAPH SHOWING
EXISTING & PROPOSED WELL LOCATIONS
LAGO VERDE MINE
PASCO COUNTY, FLORIDA

Creative Environmental Solutions, Inc.
700 DeSoto Avenue
Brooksville, Florida 34601
Phone: (352) 796-3374 Fax: (352) 796-2449

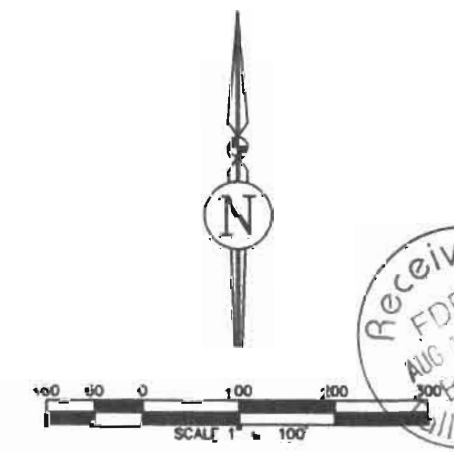
P:\OUTLAW RIDGE\LAGO VERDE MINE\ERP\CADD\2010 AERIAL.DWG DRAWN BY: T. TRAYNHAM CES JOB #10-049





LEGEND:

- PROPERTY BOUNDARY
- PROJECT AREA
- SILT FENCE
- 2110 POST-DEVELOPMENT F.L.U.C.F.C.S.
- AREAS REQUIRING RECLAMATION



RECLAMATION PLAN

- POST-MINING, FLUCFCS 2110-IMPROVED PASTURES SHALL BE GRADED SMOOTH TO PROMOTE SHEET-FLOW RUNOFF AND PLANTED WITH GRASS, AS FOLLOWS:
  - PRE-APPLICATION OF GRANULAR FERTILIZER (15-10-15) AT A RATE OF 300 LBS/ACRE
  - HYDRO-SEEDING OF GRASS SEED, AS FOLLOWS:
    - DURING THE COOL MONTHS (NOVEMBER TO MARCH), A COOL SEASON SEED MIXTURE CONSISTING OF 27% ANNUAL RYEGRASS, 23% PENSACOLA BAHIAGRASS, 40% UNHULLED SAHARA BERMUDA, AND 10% DURANA CLOVER WILL BE SOWN AT A RATE OF 150 LBS/ACRE.
    - DURING THE WARM MONTHS (APRIL TO OCTOBER), A WARM SEASON SEED MIXTURE CONSISTING OF 27% ANNUAL RYEGRASS, 23% PENSACOLA BAHIAGRASS, 40% HULLED SAHARA BERMUDA, AND 10% DURANA CLOVER WILL BE SOWN AT A RATE OF 150 LBS/ACRE.
    - LIQUID FERTILIZER (10-44-6) AT A RATE OF 7.5 LBS/ACRE.
    - HYDROGEL B POLYMER (FOR MOISTURE AND NUTRIENT RETENTION) AS SPECIFIED BY THE MANUFACTURER
- POST-MINING, A TOTAL OF 4.58 ACRES OF FLUCFCS 4230-MIXED HARDWOODS WILL BE PLANTED AT A DENSITY OF 250 TREES PER ACRES WITH ONE GALLON CONTAINER-GROWN NATIVE TREES SPECIES.
- POST-MINING, FLUCFUCS 6400 - VEGETATED NON-FORESTED WETLANDS WILL BE ALLOWED TO REGENERATE WITH NATURAL RECRUITMENT.

POST-DEVELOPMENT F.L.U.C.F.C.S. WITHIN PROPERTY BOUNDARY*

NO.	DESCRIPTION	ACRES	%
1120	MOBILE HOME UNITS	3.18	3.3
1400	COMMERCIAL AND SERVICES	0.85	0.9
2110	IMPROVED PASTURES	35.14	36.0
4230	OAK - PINE - HICKORY	4.58	4.7
4320	SAND LIVE OAK	11.46	11.8
5230	LAKES	40.31	41.3
6400	VEGETATED NON-FORESTED WETLANDS	2.00	2.0
		±97.52	100

*FLORIDA LAND USE, COVER, AND FORMS CLASSIFICATION SYSTEM (FDOT - JANUARY 1999)
NOTE: F.L.U.F.C.S. CODE 8142 - DIVIDED HIGHWAY (FEDERAL-STATE) SHOWN - NOT WITHIN P/L
• *REGENERATION BY NATURAL RECRUITMENT

Received FDEP AUG 12 2010

No.	DATE	REVISION NOTE	BY	APPR.

CLIENT: OUTLAW RIDGE, INC

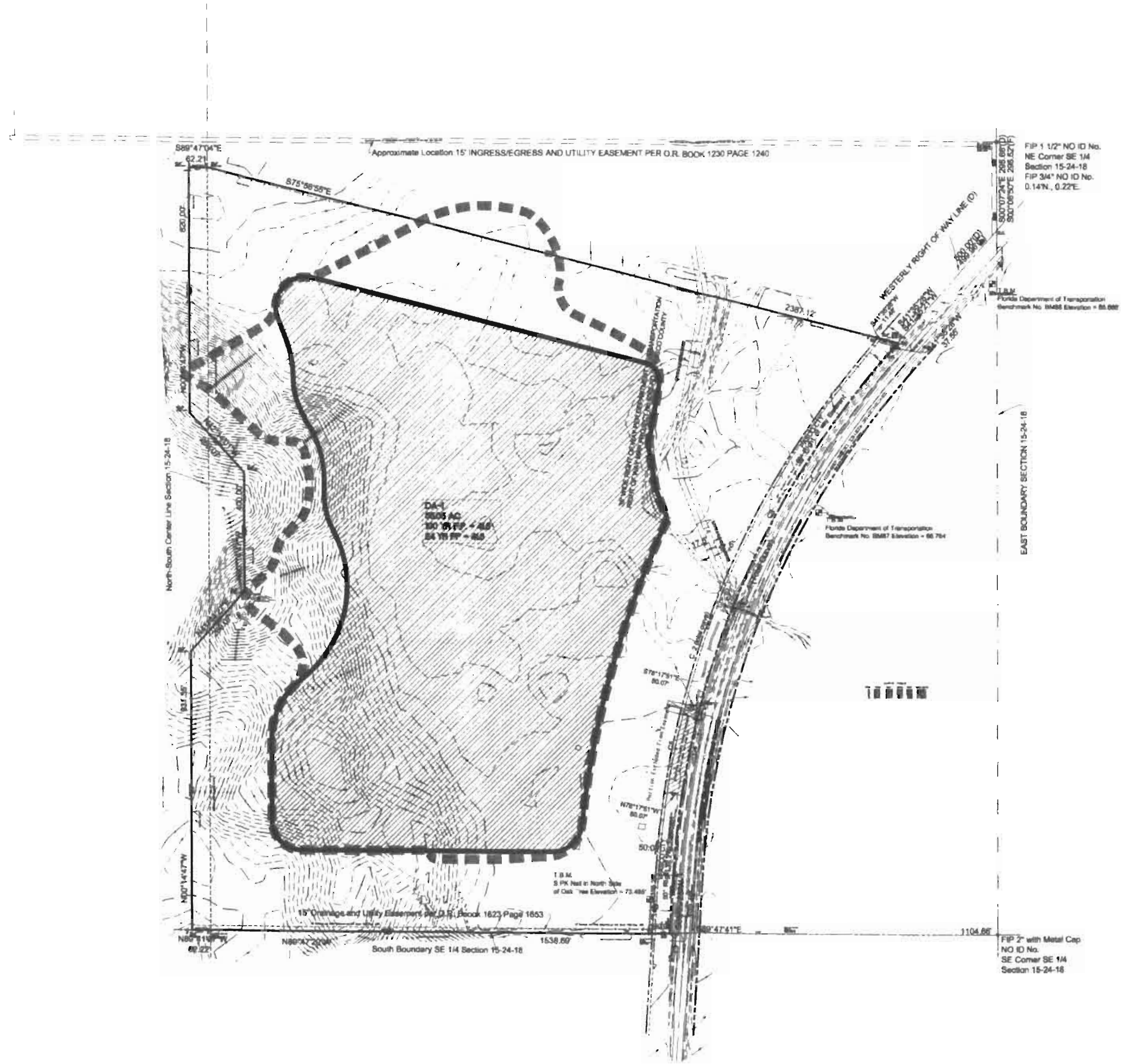
PROJECT: LAGO VERDE MINE

SHEET TITLE: POST-DEVELOPMENT F.L.U.C.F.C.S & RECLAMATION

BROWN & CULLEN INC.
CIVIL ENGINEERS and LAND PLANNERS
3530 N.W. 43rd Street
Gainesville, Florida 32606
PHONE: (352) 375-8999 FAX: (352) 375-0833
E-MAIL: bci@brown-cullen.com
St. of Fla. Brd. of Prof. Eng Cert. of Auth. No. 8263

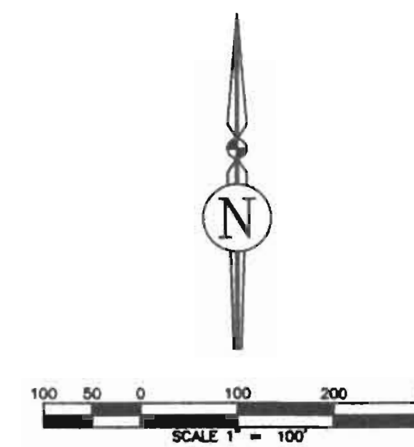
PROJECT ENGINEER: STUART J. CULLEN, P.E. — FL. REG. No. 51337

PROJECT NO.	DATE
264-10-09	AUGUST, 2010
PROJECT MGR	DRAWN BY
SJC	RLW
SHEET	OF
5	6



LEGEND:

- PROPERTY BOUNDARY
- PROJECT AREA
- DRAINAGE DIVIDE
- POST-DEVELOPMENT PIT (LAKE)
- EXISTING TOPOGRAPHY
- DIRECTION OF RUNOFF



No.	DATE	REVISION NOTE	BY	APPR.

CLIENT: OUTLAW RIDGE, INC

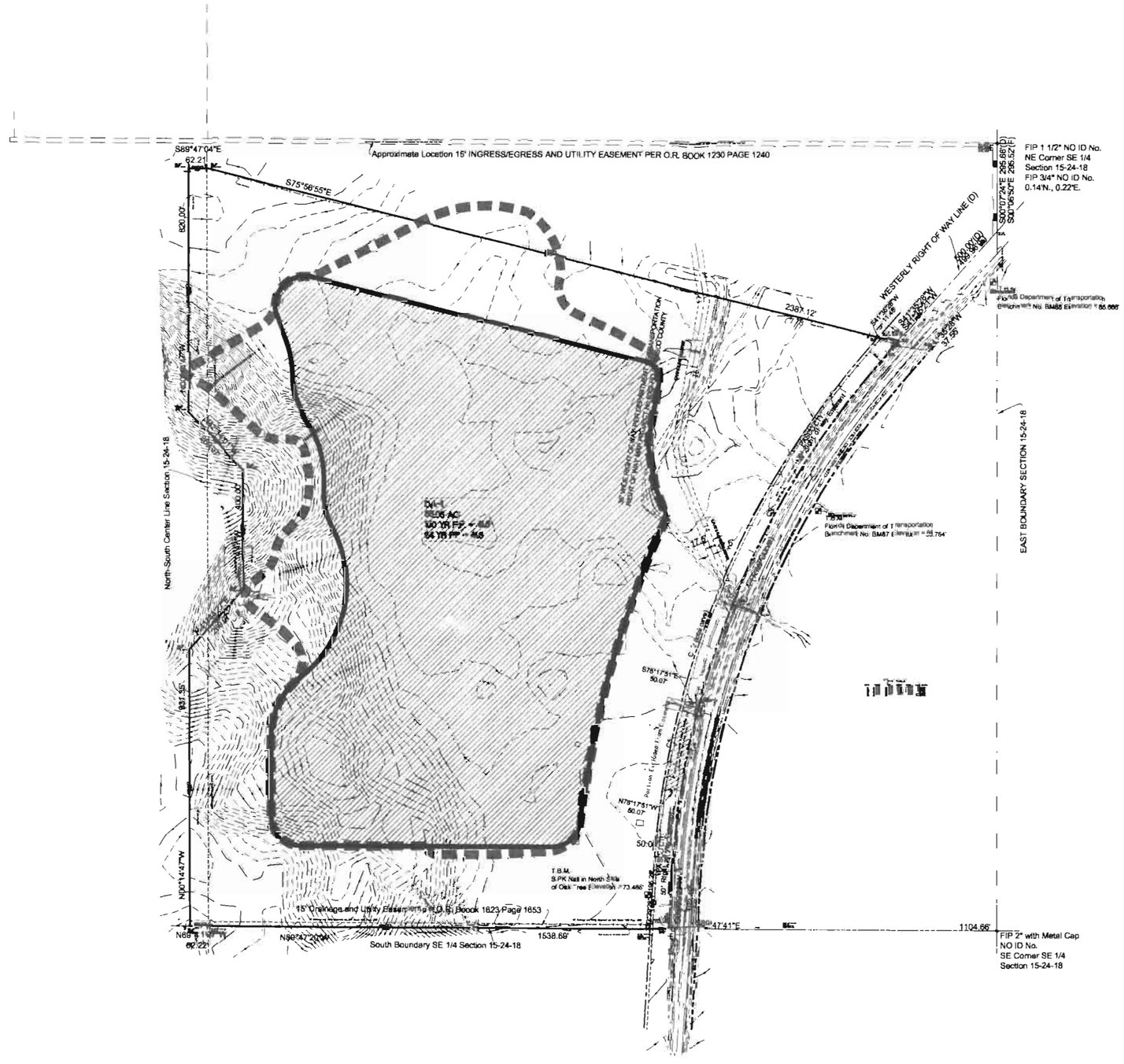
PROJECT: LAGO VERDE MINE

SHEET TITLE: POST-DEVELOPMENT DRAINAGE

BROWN & CULLEN INC.
CIVIL ENGINEERS and LAND PLANNERS
3530 N.W. 43rd Street
Gainesville, Florida 32606
PHONE: (352) 375-8999 FAX: (352) 375-0833
E-MAIL: bci@brown-cullen.com
St. of Fla. Brd. of Prof. Eng Cert. of Auth. No. 8283

8/11/10

PROJECT ENGINEER: STUART I. CULLEN, P.E.	FL. REG. No. 51337
PROJECT NO. 284-10-09	DATE: AUGUST, 2010
PROJECT MGR. SIC	DRAWN BY: RLW
SHEET 6	OF 6



LEGEND:

- PROPERTY BOUNDARY
- PROJECT AREA
- DRAINAGE DIVIDE
- POST-DEVELOPMENT PIT (LAKE)
- EXISTING TOPOGRAPHY
- DIRECTION OF RUNOFF

N

100 50 0 100 200

SCALE 1" = 100'

No.	DATE	REVISION NOTE	BY	APPR.

CLIENT:
OUTLAW RIDGE, INC

PROJECT:
LAGO VERDE MINE

SHEET TITLE:
POST-DEVELOPMENT DRAINAGE

BROWN & CULLEN INC.
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3530 N.W. 43rd Street
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PHONE: (352) 375-8999 FAX: (352) 375-0833
E-MAIL: bcl@brown-cullen.com
St. of Fla. Brd. of Prof. Eng Cert. of Auth. No. 8263

PROJECT ENGINEER: STUART J. CULLEN, P.E. FL. REG. No. 51357

PROJECT NO.	DATE:
284-10-09	AUGUST, 2010
PROJECT MGR.	DRAWN BY:
SJC	RLW
SHEET: 6	OF: 6

P:\OUTLAW RIDGE\LAGO VERDE MINE\ERP\CADD\GENERAL SOILS MAP.DWG DRAWN BY: T. TRAYNHAM CES JOB #10-049

N

SCALE: 1:20,000

MAP KEY

6—Tavares Sand (0-5 Percent Slopes)

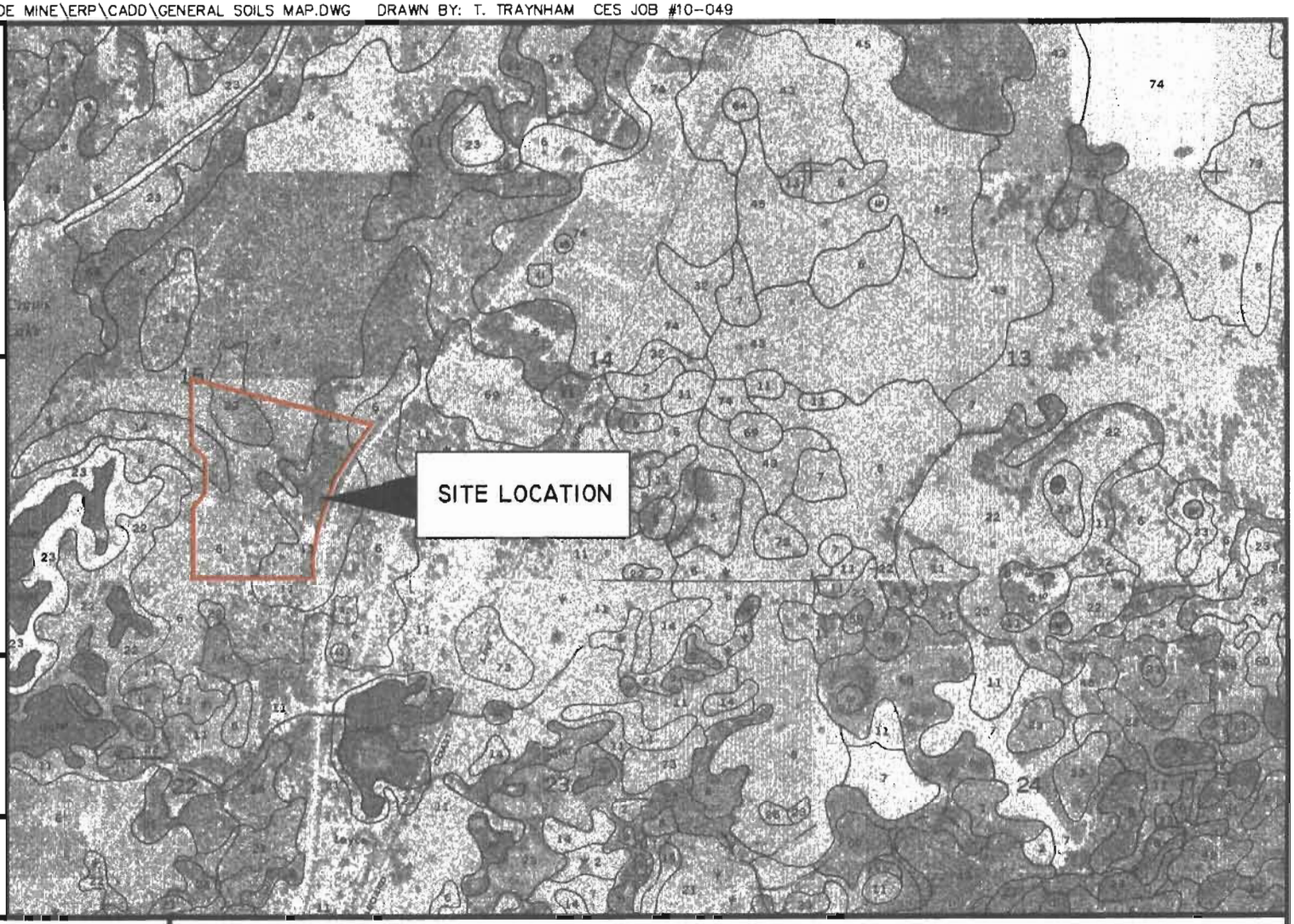
11—Adamsville Fine Sand

14—Candler Fine Sand (0-5 Percent Slopes)

22—Basinger Fine Sand

Map Source:
Soil Survey of Pasco County, Florida by The United States Department of Agriculture Soil Conservation Service
Issued June 1982
Sheets 7 & 16

SECTION 15,
TOWNSHIP 24 SOUTH,
RANGE 18 EAST



Creative Environmental Solutions, Inc.
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PhoneE: (352) 796-3374 Fax: (352) 796-2449

FIGURE 3
GENERAL SOILS MAP
LAGO VERDE MINE
PASCO COUNTY, FLORIDA


Received
Tallahassee, FL
AUG 13 2010
Division of Corporations

EXHIBIT A

Listed Species Survey Results

On June 8, 2010, Tammy Reed, Sr. Environmental Scientist with Creative Environmental Solutions, Inc. conducted a field investigation at the subject site to determine the current site conditions, utilization by wildlife, and the potential for listed species to occur within and adjacent to the project area.

Prior to the site visit, a Florida Natural Areas Inventory (FNAI) Biodiversity Matrix Query and the FNAI list of state and federally listed species found in Pasco County were obtained and reviewed for the subject site and surrounding area (attached). The Biodiversity Matrix Query results listed no documented elements for that area, and three species were listed as likely to be found: Eastern indigo snake, Florida sandhill crane, and woodstork. Additionally, 20 listed plant and animal species were recorded as potential occurrences. Of the 20 elements, 7 were animals, and the remaining were plants.

The Florida Fish and Wildlife Conservation Commission (FWC) website was accessed to determine if eagle nests and/or waterbird colonies were listed in the area. FWC has an eagle nest documented approximately 1.5 miles southwest of the project site. The nest was last surveyed in 2008, and was recorded as last active in 2003. According to the website, the FWC is surveying Pasco County through the 2010-2011 breeding season. No wading bird colonies are recorded by the FWC Wading Bird Colony locator.

As a result of the site visit, one active gopher tortoise burrow was documented. No other listed species were observed. Wildlife observed included red tail hawk, red shoulder hawk, crow, cardinal, dove, black racer, and tree frogs. There are multiple single large live oak trees as well as small groups of trees scattered throughout the property. However, the majority of the site that is not in active mining is in agriculture. The site had been recently tilled in preparation for planting. The gopher tortoise burrow was recorded near the western property boundary, in the central portion of the site where there is a small forested area (see attached figure). The burrow is within a mining setback and should not be impacted by the proposed mine plan.

Table 1 below is a list of those species that may occur on the subject site based on CES's investigation, but which were not observed during the site visit.

Table 1 – Potential Listed Species					
Common Name	**Scientific Name**	**Federal Status**	**State Status**	**Potential for Occurrence**	**Comments**
Southeastern American kestrel	*Falco sparverius paulus*	NL	T	Low	It is possible that they may forage on site, but due to the lack of suitable nesting trees it is unlikely they inhabit the property.
Eastern indigo snake	*Drymarchon couperi*	T	T	Low	Due to the active land use and presence of only one gopher tortoise burrow, it is unlikely they inhabit the property.
Florida mouse	*Podomys floridanus*	NL	S	Low	Due to the active land use and presence of only one gopher tortoise burrow, it is unlikely they inhabit the property.
Gopher frog	*Rano capito*	NL	S	Low	Due to the active land use and presence of only one gopher tortoise burrow, it is unlikely they inhabit the property.
Shermans Fox Squirrel	*Sciurus niger shermanii*	NL	S	Low	Due to the active land use it is unlikely they inhabit the property.

NL=Not Listed

S=Species of Special Concern

T=Threatened

REFERENCES

Eagle Nest Locator, Florida Fish and Wildlife Conservation Commission. http://myfwc.com/eagle/eaglenests/nestlocator.aspx.

Florida Land Use, Cover and Forms Classification System Handbook. Florida Department of Transportation. January 1999.

Google Earth. State Road 41, Spring Hill, FL. 28°23'36.79N/82°29'25.17W. Accessed June 4, 2010.

US. Geological Survey, 7.5-Minute Series Topographic Map, Masaryktown & Port Richey NE. 1954, photo revised 1988.

Waterbird Colony Locator, Florida Fish and Wildlife Conservation Commission. http://www.myfwc.com/waders/

EXHIBIT A – Listed Species Map, 2010 Aerial Photograph

Creative Environmental Solutions, Inc.
Google Earth. Accessed June 4, 2010.

PASCO COUNTY

114 Total Elements Found
Last Updated: June 2010

Key

Scientific Name is linked to the FNAI Online Field Guides when available.

- links to NatureServe Explorer, an online encyclopedia of more than 55,000 plants, animals, and natural communities in North America, compiled by the NatureServe network of natural heritage programs, of which the Florida Natural Areas Inventory is a member.

- links to a species distribution map (Adobe SVG viewer required). If your browser does not support Adobe SVG, try this link

New Search

SEARCH RESULTS

NOTE: This is not a comprehensive list of all species and natural communities occurring in the location searched. Only element occurrences documented in the FNAI database are included.

Plants and Lichens

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Asplenium erosum	Auricled Spleenwort	G5	S2	N	LE
Blechnum occidentale	Sinkhole Fern	G5	S1	N	LE
Centrosema arenicola	Sand Butterfly Pea	G2Q	S2	N	LE
Glandularia tampensis	Tampa Vervain	G2	S2	N	LE
Gymnopogon chapmanianus	Chapman's Skeletongrass	G3	S3	N	N
Litsea aestivalis	Pondspice	G3	S2	N	LE
Monotropsis reynoldsiae	Pygmy Pipes	G1Q	S1	N	LE
Nemastylis floridana	Celestial Lily	G2	S2	N	LE

Nolina brittoniana	Britton's Beargrass	G3	S3	LE	LE
Ophioglossum palmatum	Hand Fern	G4	S2	N	LE
Pecluma plumula	Plume Polypody	G5	S2	N	LE

Bivalves (Clams and Mussels)

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Utterbackia peninsularis	Peninsular Floater	G3	S2S3	N	N

Spiders

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Phidippus workmani	Workman's Jumping Spider	G2	S2	N	N
Sphodros abboti	Blue Purse-web Spider	G4G5	S4	N	N

Amphipods

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Crangonyx grandimanus	Florida Cave Amphipod	G2G3	S2S3	N	N
Crangonyx hobbsi	Hobbs' Cave Amphipod	G2G3	S2S3	N	N

Decapods (Crabs, Crayfishes, Shrimp)

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Procambarus leitheuseri	Coastal Lowland Cave Crayfish	G1G2	S1S2	N	N

Mayflies

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Stenacron floridense	A Mayfly	G3G4	S3S4	N	N

Dragonflies and Damselflies

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Gomphus cavillaris	Sandhill Clubtail	G4	S4	N	N
Hetaerina americana	American Rubyspot	G5	S2	N	N

Beetles

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Aphodius aegrotus	Small Pocket Gopher Aphodius Beetle	GNR	S3?	N	N
Aphodius laevigatus	Large Pocket Gopher Aphodius Beetle	G3?	S3?	N	N
Desmopachria cenchramis	Fig Seed Diving Beetle	G1	S1	N	N
Hypotrichia spissipes	Florida Hypotrichia Scarab Beetle	G3G4	S3S4	N	N
Onthophagus aciculatulus	Sandyland Onthophagus Beetle	G1G2	S1S2	N	N
Peltotrupes profundus	Florida Deepdigger Scarab Beetle	G3	S3	N	N
Phyllophaga elongata	Elongate June Beetle	G2G4	S2S4	N	N
Selonodon mandibularis	Large-Jawed Cebrionid Beetle	G2G3	S2S3	N	N
Typocerus fulvocinctus	Yellow-banded Typocerus Long-horned Beetle	G2	S2	N	N

Caddisflies

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Cernotina truncona	Florida Cernotinan Caddisfly	G4	S3	N	N
Oxyethira janella	Little-entrance Oxyethiran Microcaddisfly	G5	S4S5	N	N
Oxyethira pescadori	Pescador's Bottle-Cased Caddisfly	G3G4	S3	N	N
Triaenodes furcellus	Little-fork Triaenode Caddisfly	G3	S3	N	N

Butterflies and Moths

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
	Loammi Skipper	G1	S1	N	N

Atrytonopsis loammi					
Euphyes dukesi calhouni	Calhoun's Skipper	G3T2T3	S1	N	N
Idia gopheri	Gopher Tortoise Noctuid Moth	G2G3	S2S3	N	N
Ministrymon azia	Gray Ministreak	G5	S1	N	N
Pholisora catullus	Common Sootywing	G5	SH	N	N

Fish

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Enneacanthus chaetodon	Blackbanded Sunfish	G4	S3	N	N

Amphibians

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Notophthalmus perstriatus	Striped Newt	G2G3	S2S3	N	N
Rana capito	Gopher Frog	G3	S3	N	LS

Reptiles

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Alligator mississippiensis	American Alligator	G5	S4	SAT	LS
Caretta caretta	Loggerhead	G3	S3	LT	LT
Chelonia mydas	Green Turtle	G3	S2	LE	LE
Crotalus adamanteus	Eastern Diamondback Rattlesnake	G4	S3	N	N
Dermochelys coriacea	Leatherback	G2	S2	LE	LE
Drymarchon couperi	Eastern Indigo Snake	G3	S3	LT	LT
Gopherus polyphemus	Gopher Tortoise	G3	S3	N	LT
Lampropeltis extenuata	Short-tailed Snake	G3	S3	N	LT
Lampropeltis getula	Common Kingsnake	G5	S2S3	N	N

Lepidochelys kempii	Kemp's Ridley	G1	S1	LE	LE
Pituophis melanoleucus mugitus	Florida Pine Snake	G4T3	S3	N	LS
Pseudemys concinna suwanniensis	Suwannee Cooter	G5T3	S3	N	LS

Birds

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Accipiter cooperii	Cooper's Hawk	G5	S3	N	N
Aimophila aestivalis	Bachman's Sparrow	G3	S3	N	N
Ammodramus maritimus peninsulae	Scott's Seaside Sparrow	G4T3Q	S3	N	LS
Aphelocoma coerulescens	Florida Scrub-jay	G2	S2	LT	LT
Aramus guarauna	Limpkin	G5	S3	N	LS
Ardea alba	Great Egret	G5	S4	N	N
Athene cunicularia floridana	Florida Burrowing Owl	G4T3	S3	N	LS
Buteo brachyurus	Short-tailed Hawk	G4G5	S1	N	N
Charadrius melodus	Piping Plover	G3	S2	LT	LT
Cistothorus palustris marianae	Marian's Marsh Wren	G5T3	S3	N	LS
Dendroica discolor paludicola	Florida Prairie Warbler	G5T3	S3	N	N
Egretta caerulea	Little Blue Heron	G5	S4	N	LS
Egretta thula	Snowy Egret	G5	S3	N	LS
Egretta tricolor	Tricolored Heron	G5	S4	N	LS
Elanoides forficatus	Swallow-tailed Kite	G5	S2	N	N
Eudocimus albus	White Ibis	G5	S4	N	LS
Falco columbarius	Merlin	G5	S2	N	N
Falco peregrinus	Peregrine Falcon	G4	S2	N	N
Falco sparverius paulus	Southeastern American Kestrel	G5T4	S3	N	LT

Fregata magnificens	Magnificent Frigatebird	G5	S1	N	N
Grus canadensis pratensis	Florida Sandhill Crane	G5T2T3	S2S3	N	LT
Haematopus palliatus	American Oystercatcher	G5	S2	N	LS
Haliaeetus leucocephalus	Bald Eagle	G5	S3	N	N
Ixobrychus exilis	Least Bittern	G5	S4	N	N
Laterallus jamaicensis	Black Rail	G4	S2	N	N
Mycteria americana	Wood Stork	G4	S2	LE	LE
Nyctanassa violacea	Yellow-crowned Night-heron	G5	S3	N	N
Nycticorax nycticorax	Black-crowned Night-heron	G5	S3	N	N
Pandion haliaetus	Osprey	G5	S3S4	N	LS*
Pelecanus occidentalis	Brown Pelican	G4	S3	N	LS
Picoides villosus	Hairy Woodpecker	G5	S3	N	N
Platalea ajaja	Roseate Spoonbill	G5	S2	N	LS
Plegadis falcinellus	Glossy Ibis	G5	S3	N	N
Rallus longirostris scottii	Florida Clapper Rail	G5T3?	S3?	N	N
Rynchops niger	Black Skimmer	G5	S3	N	LS
Sterna antillarum	Least Tern	G4	S3	N	LT
Sterna maxima	Royal Tern	G5	S3	N	N

Mammals

EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Corynorhinus rafinesquii	Rafinesque's Big-eared Bat	G3G4	S2	N	N
Mustela frenata peninsulae	Florida Long-tailed Weasel	G5T3	S3	N	N
Neofiber alleni	Round-tailed Muskrat	G3	S3	N	N
Neovison vison halilimnetes	Gulf Salt Marsh Mink	G5T3	S3	N	N

Podomys floridanus		Florida Mouse	G3	S3	N	LS
Sciurus niger shermani		Sherman's Fox Squirrel	G5T3	S3	N	LS
Trichechus manatus		Manatee	G2	S2	LE	LE
Ursus americanus floridanus		Florida Black Bear	G5T2	S2	N	LT*

Natural Communities DESCRIPTION EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Aquatic cave		G3	S3	N	N
Beach dune		G3	S2	N	N
Coastal interdunal swale		G3	S2	N	N
Estuarine composite substrate		G3	S3	N	N
Estuarine tidal marsh		G5	S4	N	N
Estuarine unconsolidated substrate		G5	S5	N	N
Floodplain swamp		G4	S4	N	N
Marine composite substrate		G3	S3	N	N
Marine consolidated substrate		G3	S3	N	N
Marine mollusk reef		G3	S3	N	N
Marine tidal marsh		G5	S4	N	N
Marine tidal swamp		G5	S4	N	N
Maritime hammock		G3	S2	N	N
Mesic flatwoods		G4	S4	N	N
Scrub		G2	S2	N	N

Other Elements EXPLANATION

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Bird Rookery		GNR	SNR	N	N

1018 Thomasville Road
Suite 200-C
Tallahassee, FL 32303
850-224-8207
850-681-9364 fax
www.fnai.org

Florida Natural Areas Inventory

Biodiversity Matrix Query Results

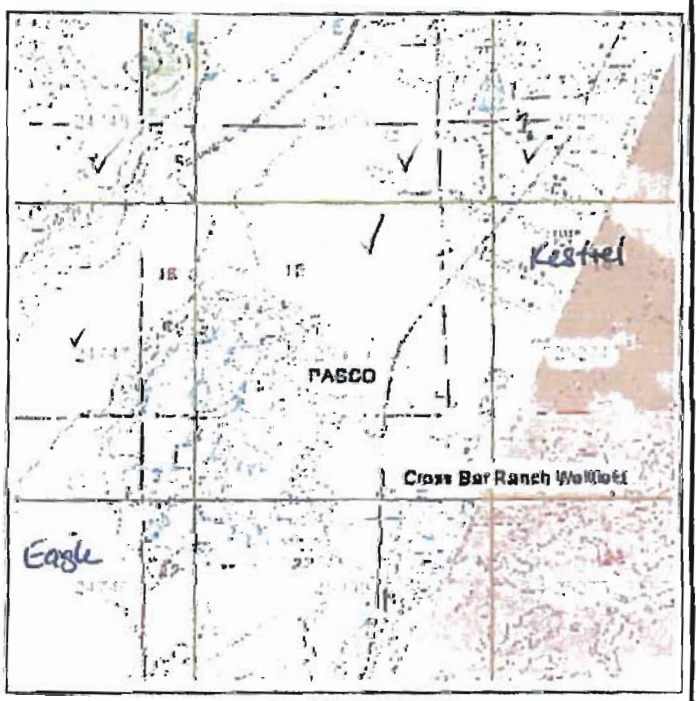
UNOFFICIAL REPORT

Created 4/28/2010

(Contact the FNAI Data Services Coordinator at 850.224.8207 for information on an official Standard Data Report)

NOTE: The Biodiversity Matrix includes only rare species and natural communities tracked by FNAI.

Report for 1 Matrix Unit: 25010



Descriptions

DOCUMENTED - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit.

DOCUMENTED-HISTORIC - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit; however the occurrence has not been observed/reported within the last twenty years.

LIKELY - The species or community is *known* to occur in this vicinity, and is considered likely within this Matrix Unit because:

1. documented occurrence overlaps this and adjacent Matrix Units, but the documentation isn't precise enough to indicate which of those Units the species or community is actually located in; *or*
2. there is a documented occurrence in the vicinity and there is suitable habitat for that species or community within this Matrix Unit.

POTENTIAL - This Matrix Unit lies within the known or predicted range of the species or community based on expert knowledge and environmental variables such as climate, soils, topography, and landcover.

Matrix Unit ID: 25010

0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

6 **Likely** Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Drymarchon couperi Eastern Indigo Snake	G3	S3	LT	LT
Grus canadensis pratensis	G5T2T3	S2S3	N	LT

Florida Sandhill Crane				
Mesic flatwoods	G4	S4	N	N
Mycteria americana Wood Stork	G4	S2	LE	LE
Sandhill	G3	S2	N	N
Sandhill upland lake	G3	S2	N	N

Matrix Unit ID: 25010

28 **Potential** Elements for Matrix Unit 25010

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Agrimonia incisa Incised Groove-bur	G3	S2	N	LE
Aimophila aestivalis Bachman's Sparrow	G3	S3	N	N
Asplenium heteroresiliens Wagner's Spleenwort	GNA	S1	N	N
Athene cunicularia floridana Florida Burrowing Owl	G4T3	S3	N	LS
Calopogon multiflorus Many-flowered Grass-pink	G2G3	S2S3	N	LE
Centrosema arenicola Sand Butterfly Pea	G2Q	S2	N	LE
Digitaria floridana Florida Crabgrass	G1	S1	N	N
Gopherus polyphemus Gopher Tortoise	G3	S3	N	LT
Gymnopogon chapmanianus Chapman's Skeletongrass	G3	S3	N	N
Heterodon simus Southern Hognose Snake	G2	S2	N	N
Lechea cernua Nodding Pinweed	G3	S3	N	LT
Matelea floridana Florida Spiny-pod	G2	S2	N	LE
Monotropsis reynoldsiae Pygmy Pipes	G1Q	S1	N	LE
Mustela frenata peninsulae Florida Long-tailed Weasel	G5T3	S3	N	N
Nemastylis floridana Celestial Lily	G2	S2	N	LE
Neofiber alleni Round-tailed Muskrat	G3	S3	N	N
Notophthalmus perstriatus Striped Newt	G2G3	S2S3	N	N
Panicum abscissum Cutthroat Grass	G3	S3	N	LE
Pituophis melanoleucus mugitus Florida Pine Snake	G4T3	S3	N	LS
Platanthera integra Yellow Fringeless Orchid	G3G4	S3	N	LE
Podomys floridanus Florida Mouse	G3	S3	N	LS
Pteroglossaspis ecristata Giant Orchid	G2G3	S2	N	LT
Pycnanthemum floridanum Florida Mountain-mint	G3	S3	N	LT
Rana capito				

Gopher Frog	G3	S3	N	LS
Sciurus niger shermani Sherman's Fox Squirrel	G5T3	S3	N	LS
Stilosoma extenuatum Short-tailed Snake	G3	S3	N	LT
Triphora craigheadii Craighead's Nodding-caps	G1	S1	N	LE
Warea carteri Carter's Warea	G3	S3	LE	LE

Disclaimer

The data maintained by the Florida Natural Areas Inventory represent the single most comprehensive source of information available on the locations of rare species and other significant ecological resources statewide. However, the data are not always based on comprehensive or site-specific field surveys. Therefore, this information should not be regarded as a final statement on the biological resources of the site being considered, nor should it be substituted for on-site surveys. FNAI shall not be held liable for the accuracy and completeness of these data, or opinions or conclusions drawn from these data. FNAI is not inviting reliance on these data. Inventory data are designed for the purposes of conservation planning and scientific research and are not intended for use as the primary criteria for regulatory decisions.

Unofficial Report

These results are considered unofficial. FNAI offers a Standard Data Request option for those needing certifiable data.

EXHIBIT B

Engineering Report

Stormwater Management Calculations

of

Lago Verde Mine

Hernando County, FL

for

Outlaw Ridge, Inc.

date

August 10, 2010

BROWN & CULLEN INC.

CIVIL ENGINEERS
and
LAND PLANNERS

3530 N.W. 43rd Street
Gainesville, FL 32606
Phone: (352) 375-8999 Fax: (352) 375-0833
E-mail: bci@brown-cullen.com

State of Florida Board of Professional Engineering
Certificate of Authorization No. 8263

Stuart I. Cullen, P.E. (FL Registration No. 51337)

I. **Project Name:** Lago Verde Mine

II. **Owner:** Outlaw Ridge, Inc.

III. Property Description

City & County: Spring Hill, Florida 34610
Street Address: 16001 US Highway 41
Site Location Map: **See Attachment A**

IV. General Project Information

A. Project Overview

The Lago Verde Mine proposes to expand the existing sand mine operation to mine the limerock below the sand. Activities within the proposed expansion area include: removal of overburden, storage of overburden, removal of sand, and the removal of limestone. Sand is old directly, while limestone is placed into portable crushers, stockpiled and sold.

V. Criteria of the Governing State Agency and Local Government

A. Florida Department of Environmental Protection (FDEP)

As required in accordance with the FDEP criteria, the mine must provide storage volume from the 25-year, 24-hour storm event. In addition to the 25-year, 24-hour storm, the 100-year, 24-hour storm is calculated.

VI. Subsurface Investigation

Monitoring well data was used to denote the normal water table at approximately 32' BLS, and the seasonal high water table as approximately 30'+/- BLS.

VII. Drainage Design

The Post-Development Drainage Plan **(Attachment B)** depicts the post-development drainage area. DA-1 is 2,398,170 SF (55.05 Ac.). The void left by mining provides total retention of both the 25-Year, 24-hour and the 100-Year, 24-Hour Storms. Due to the large volume of the mine, the storm events have not been routed.

W.Q. Volume = 2,398,170 SF * 1 In * (1 Ft / 12 In) = 199,848 CF = 4.59 ac-ft
25-Yr/24-Hr Vol = 2,398,170 SF * 10.50 In * (1 Ft / 12 In) = 2,098,399 CF = 48.17 ac-ft
100-Yr/24-Hr Vol = 2,398,170 SF * 12.50 In * (1 Ft / 12 In) = 2,498,094 CF = 57.35 ac-ft

VIII. Design Summary

The stormwater management system for Lago Verde Mine satisfies all of the requirements set by the FDEP. The drainage system design accounts for runoff from

the proposed drainage area. The mine provides complete retention of both of the 25-year, 24-hour storm event and the 100-year, 24-hour storm event, as well as, the required water quality treatment volume.

A. Retention Basin

Drainage Area No. 1

A.	Basin Top Elevation	= 68
B.	Stage (25 year, 24-Hour)	= 41.3
C.	Required Water Quality Volume	= 4.59 ac-ft
D.	Provided Water Quality Volume (@ el.=41)	= 39.7 ac-ft

Lago Verde Mine

VOLUME OF STORAGE IN MINE:

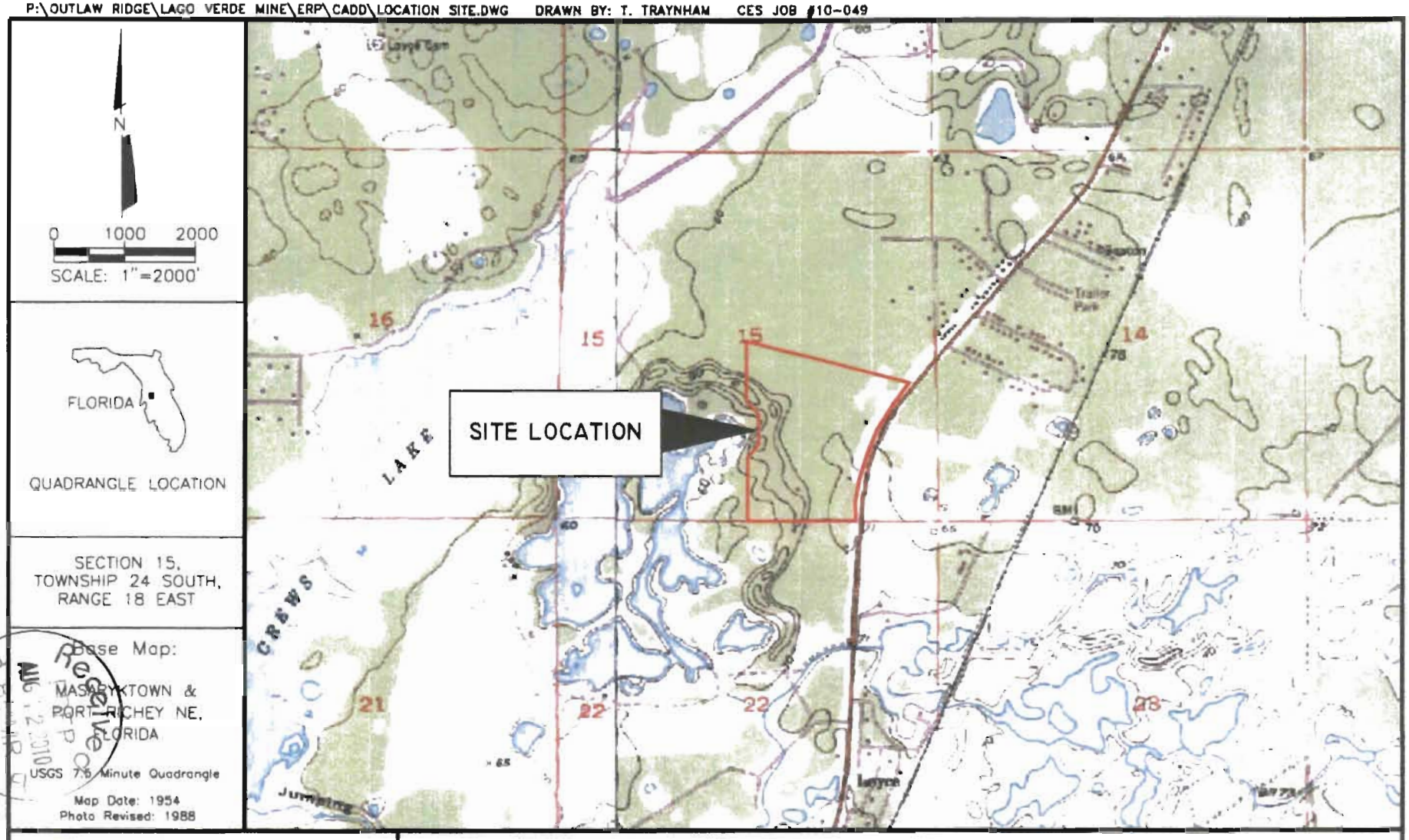
Design High Water =	38.0	ft
Top of Bank of Mine =	68.0	ft

WQ Volume =
25 Yr/24 Hr FP =

100 Yr/24 Hr FP =

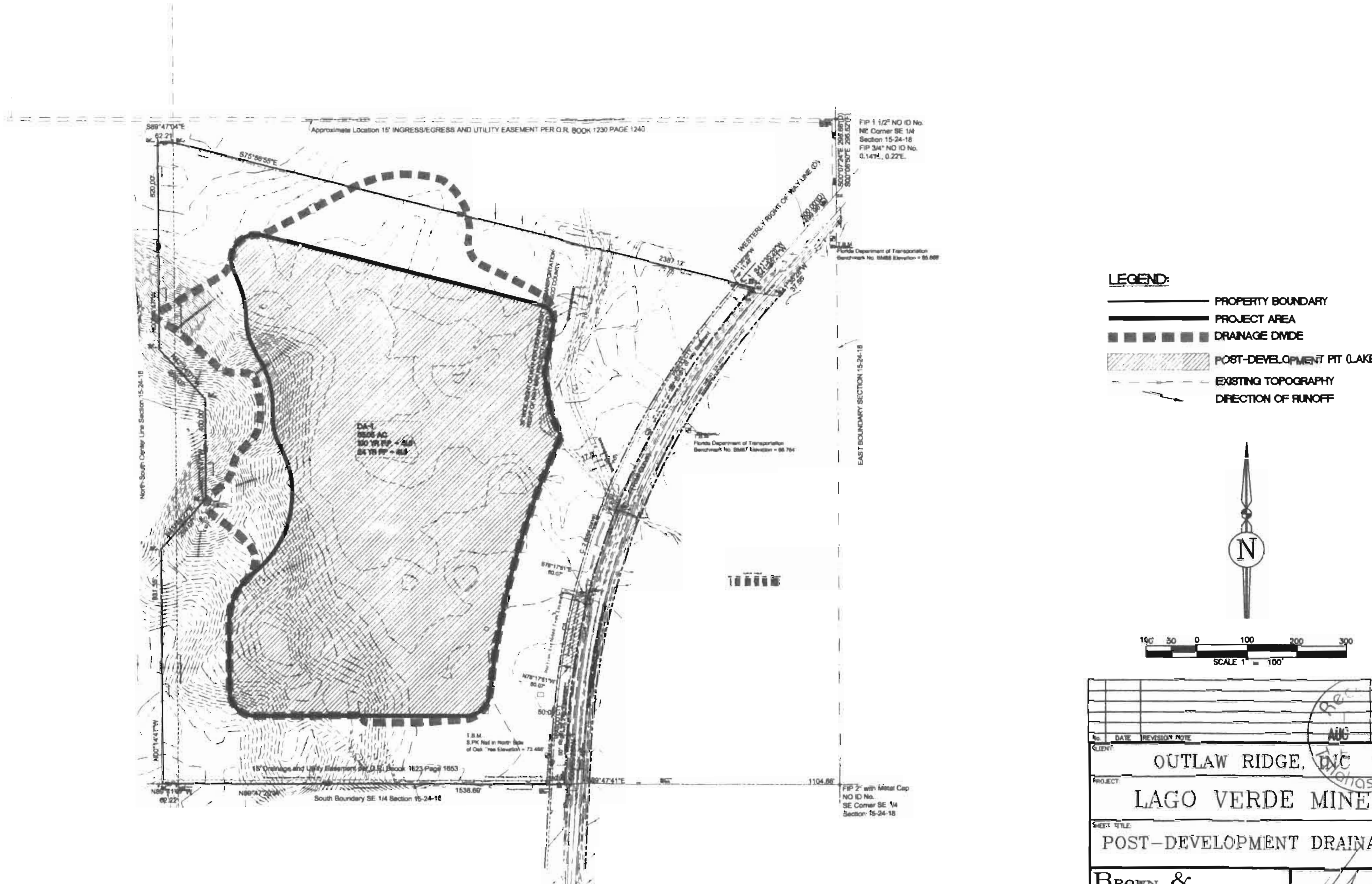
Elevation	Acres	VOLUME (ac-ft)	VOLUME (ft^3)
40.0	39.60	0.0	0
41.0	39.73	39.7	1,730,508
41.1	39.74	43.7	1,903,614
41.2	39.75	47.7	2,076,776
41.3	39.77	51.7	2,249,992
41.4	39.78	55.6	2,423,265
41.5	39.79	59.6	2,596,592
41.6	39.80	63.6	2,769,975
41.7	39.82	67.6	2,943,413
41.8	39.83	71.6	3,116,906
50.0	40.87	407.4	17,748,259
60.0	42.17	829.1	36,117,511
65.0	43.52	1046.7	45,596,167
68.0	44.34	1179.8	51,390,519

P:\OUTLAW RIDGE\LAGO VERDE MINE\ERP\CADD\LOCATION SITE.DWG DRAWN BY: T. TRAYNHAM CES JOB #10-049



Creative Environmental Solutions, Inc.
700 DeSoto Avenue
Brooksville, Florida 34601
Phone: (352) 796-3374 Fax: (352) 796-2449

ATTACHMENT "A"
SITE LOCATION MAP
LAGO VERDE MINE
PASCO COUNTY, FLORIDA



No.	DATE	REVISION NOTE

CLIENT: OUTLAW RIDGE, INC

PROJECT: LAGO VERDE MINE

SHEET TITLE: POST-DEVELOPMENT DRAINAGE

BROWN & CULLEN INC.
CIVIL ENGINEERS and LAND PLANNERS

3530 N.W. 43rd Street
Gainesville, Florida 32606
PHONE: (352) 375-8999 FAX: (352) 375-0833
E-MAIL: bc@brown-cullen.com
St. of Fla. Brd. of Prof. Eng Cert. of Auth. No. 8263

PROJECT ENGINEER: STUART L. CULLEN, P.E. — FL. REG. No. 51337

8/11/10

PROJECT NO.	DATE
264-10-09	AUGUST, 2010
PROJECT MGR.	DRAWN BY
STC	RLW
SHEET	OF
6	6

EXHIBIT C

Photographic Log

Active sand mining in northern portion of property.

Berm and recharge ditch in northern portion of property, looking west.

View of land looking west along north boundary.

Live and sand live oaks in eastern portion of site.

Looking east at active mine area.

Looking east at active mine area.

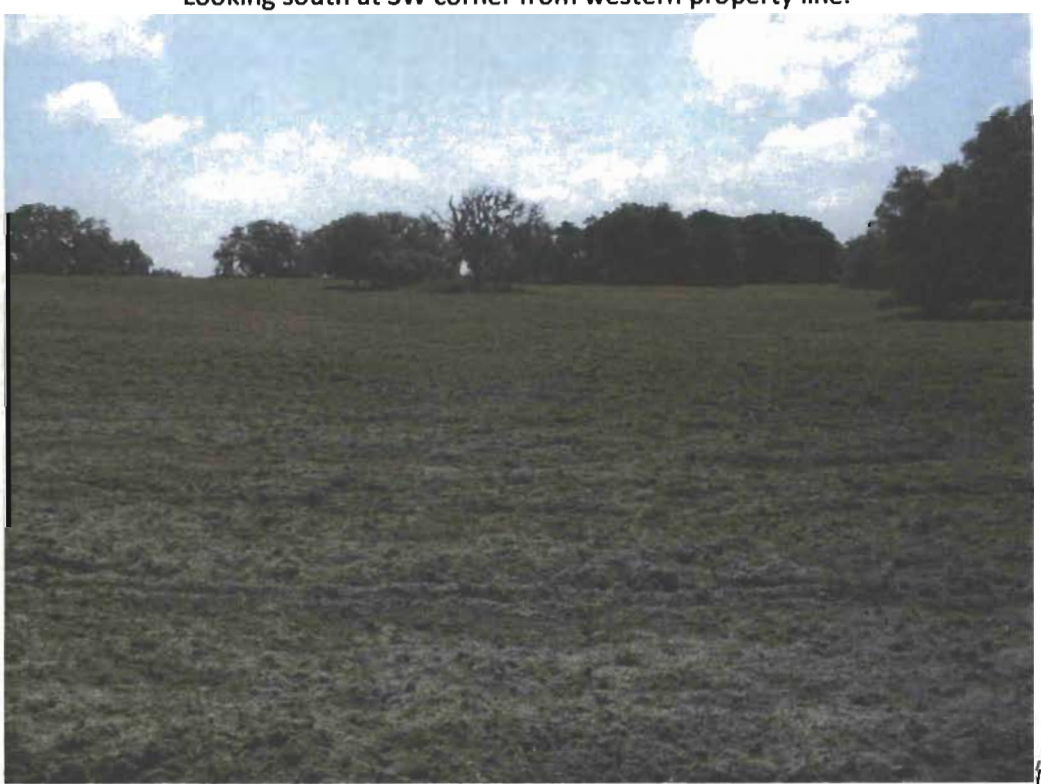
View of off site property to the west from NW corner.

Off site property to the north.

View from NW corner looking south.

View looking west at large oaks near west property boundary.

Looking south at SW corner from western property line.



Looking north from southern property line.

Looking north from southern portion of property.

Looking north at shop along eastern property line.

EXHIBIT D

Groundwater Elevation Table

EXHIBIT D: GROUNDWATER ELEVATION TABLE

Facility Name: **Outlaw Ridge - Lago Verde Mine**
Facility Address: **16107 U.S. Highway 41**
Spring Hill, FL

ID #	MW-1			MW-2			MW-3			MW-4			MW-5		
Well Diameter (in.)	2			2			2			2			2		
Total Depth (ft-bls)	27			38.75			38			33			33		
Screen Interval (ft-bls)	12-27			23.75-38.75			23-38			18-33			18-33		
Top of Casing Elevation	71.64			71.57			72.33			69.86			71.97		
Date	**DTW**	**ELEV**	**LPH**	**DTW**	**ELEV**	**LPH**	**DTW**	**ELEV**	**LPH**	**DTW**	**ELEV**	**LPH**	**DTW**	**ELEV**	**LPH**
6/23/2008				31.45	40.12										
9/8/2008	26.87	44.77		25.45	46.12		26.63	45.70		30.30	39.56		22.52	49.45	
12/8/2008				27.94	43.63					32.03	37.83		26.40	45.57	
3/23/2009				32.17	39.40								31.43	40.54	
9/15/2009				26.37	45.20								24.46	47.51	
7/16/2010	Dry @ 26.90'			29.15	42.42		Dry @ 37.82'			Dry @ 33.00'			30.32	41.65	

ID #	MWD-6			USAF-1			SG-1 (staff gauge)								
Well Diameter (in.)	2			2			NA								
Total Depth (ft-bls)	58			81			NA								
Screen Interval (ft-bls)	53-58			Unknown			NA								
Top of Casing Elevation	71.96			70.99			36.08								
Date	**DTW**	**ELEV**	**LPH**	**DTW**	**ELEV**	**LPH**	**DTW**	**ELEV**	**LPH**	**DTW**	**ELEV**	**LPH**	**DTW**	**ELEV**	**LPH**
6/23/2008	34.42	37.54		31.86	39.13										
9/8/2008	28.79	43.17		26.39	44.60										
12/8/2008	30.99	40.97		28.24	42.75										
3/23/2009	35.87	36.09		33.29	37.70										
9/15/2009	30.18	41.78		28.71	42.28										
7/16/2010	32.45	39.51		29.83	41.16		1.08	37.16							

NOTES: DTW = Depth to water measured from top-of-casing. in. = inches ft-bls = feet below land surface NA = Not applicable

EXHIBIT E

Soil Boring Information

Florida Testing & Environmental, Inc.

P.O. BOX 5603 • LAKELAND, FLORIDA 33807-5603 • TELEPHONE (863) 648-1000 • FAX (863) 648-4799

June 14, 2005
FTE Project No.: 05-8336

Kimley-Horn & Associates, Inc.
5344 9th Street
Zephyrhills, Florida 33542

Attn: Mr. Stuart Rogers

Subject: **Report of Site Suitability**
Proposed Sand Mine Project
41.28 Acre Vacant Tract "A"
Located off of U.S. Highway 41
Spring Hill, Pasco County, Florida

Dear Mr. Rogers:

In general accordance with the scope of work established through our proposal, information furnished, and as authorized Florida Testing & Environmental, Inc. (FTE) has completed the subsurface investigation for the subject project. The purpose of this investigation was to determine the stratification and engineering properties of subsurface soils with respect to evaluating the overall site suitability of the subject tract for the proposed development. This report contains the results of our investigation and comments based on current project concepts.

Boring locations were selected and staked by FTE in coordination with the client. We have left the stakes in the field and elevations can be obtained at those specific locations, if desired. The test locations with respect to overall site have been illustrated on the Boring Location Plan - Sheet 2.

This report has been prepared for the exclusive use of our client and his consultants for their use in assessing the viability of the foundation systems specifically for those structures and facilities whose characteristics are described herein, in accordance with generally accepted geotechnical engineering practices. No other warranty, expressed or implied, is made.

ACKNOWLEDGMENT

We appreciate this opportunity to be of service to you by performing this subsurface evaluation service. We are available to answer any questions that may arise from this report and to provide any additional services that may be needed. The undersigned may be contacted at (863) 648-1000.

Respectfully submitted,
FLORIDA TESTING & ENVIRONMENTAL, INC.

P.E. 6-14-05

Sonny Gulati, P.E., R.E.P.A., C.F.E.A.
Principal
Registered Professional Engineer
Florida Registration No. 40136
Registered Environmental Property Assessor No. 5844
Certified Florida Environmental Auditor No. 200

SG/dc
3: Addressee

TABLE OF CONTENTS

PROJECT INFORMATION

Furnished information indicates that the subject 41.28 acre tract designated as tract "A", is being considered for permitting as a sand mine (borrow area) at which excavations will be made to obtain sands to be marketed as fill soils. The project civil engineer is in the process of preparing a "permit package" for submittal to applicable governmental agency.

SITE LOCATION AND CONDITIONS

The proposed tract of land is located off of U.S. Highway 41 in Spring Hill, Pasco County, Florida. The site currently is vacant land with underbrush and scattered trees. The property has never been developed. The overall tract is situated in Section 15, Township 24 South and Range 18 East in Pasco County, Florida.

The site slopes towards the southwest.

SCOPE OF WORK

Our scope of work related to this project has included:

1. Conducting a site reconnaissance for planning field work. The reconnaissance includes recording ground site features such as type and condition of vegetation, site topography, site accessibility, site drainage features, and any other distinct characteristics the site may possess.

2. Flagging of proposed SPT Boring locations.

3. Performing a total of seven (7) Standard Penetration Test Borings scattered throughout the entire tract.

4. Visually inspecting and classifying representative soil samples on the basis of USCS Classification Procedure.

5. Performing numerous laboratory soils classification tests, on selected soil samples, to confirm our visual classification of the collected soil samples, and to provide pertinent test data to estimate soil engineering parameters and ascertain their adequacy as fill soils.

6. Analyzing assimilated subsoil data and groundwater conditions in light of planned use.

7. Preparing this report to present the results of our exploration program.

FIELD ACTIVITIES

Site Reconnaissance

The project site was reconnoitered on June 13, 2005, by a registered soils engineer representative of our firm, to visually inspect the site prior to mobilizing the drill equipment. The reconnaissance included recording the type, and condition of vegetation, the direction of site topographic features, site drainage features, and other study related site specific data.

The overall tract is vacant with underbrush and scattered trees.

STANDARD PENETRATION TEST BORINGS

On June 13 and 14, 2005, a total of seven (7) Standard Penetration Test Borings were performed by a truck-mounted drill rig, under our direction. These borings were extended to depths ranging from 35.0 to 55.0 feet below the existing land surface. The SPT borings were advanced with the use of a drilling bit in conjunction with wash water or drilling fluid. The boring locations have been illustrated on the plan attached in the Appendix of this report.

Representative soil samples from the test borings were obtained by means of the split-barrel sampling procedure in general accordance with ASTM specification D 1586-67. A copy of this procedure is included in the Appendix. The standard penetration test results are the results of recorded blow counts with a 140 pound hammer falling freely thirty inches, driving drill rods attached to a standard 2" O.D. sampler. In the standard manner, the sampler is seated six (6) inches into the bottom of the test hole and then advanced an additional 18.0 inches. All advancement of the sampler is accomplished by the dynamic effort of the hammer. Blows are applied until twenty four (24) inches of penetration are reached or until an excessive blow count is attained. The sampler is then removed from the test hole, opened, and the soil sample sealed in a glass jar.

A representative of our firm maintained a field log of the soil samples recovered in the field. All the soil samples were sealed, labeled and delivered to our laboratory for further examination and classification. The soil samples were visually inspected and classified on the basis of texture and plasticity in accordance with the Unified Soil Classification System.

Finally, it is our opinion that the actual transition between soil stratas is often gradual, thereby implying that the boundaries between soil types as indicated on the attached boring logs are approximate.

RETAINING PERIOD

We have stored all the soil samples recovered in the field in our laboratory. If you wish these samples to be retained beyond a period of six months from the release date of this report, please advise us in writing.

SUBSURFACE CONDITIONS

Subsoil Stratification

SB-1: See Boring Location Plan (Sheet 2)
This test location revealed loose to medium dense, fine sand in the upper 20.0 feet, followed by firm, clay to 29.0 feet and very dense, corroded limerock to the boring termination depth of 35.0 feet.

SB-2: See Boring Location Plan (Sheet 2)
At this test location, we encountered loose to very loose, fine sand in the upper 6.0 feet, followed by loose to medium dense, fine sand to 25.0 feet. Stiff to very soft, clay was then found to 39.0 feet. This was followed by hard, clay to very dense, corroded limerock to the boring termination depth of 45.0 feet.

SB-3: See Boring Location Plan (Sheet 2)
During the completion of this test boring, we encountered very loose to loose, fine sand to 10.0 feet, followed by medium dense, fine sand to 20.0 feet. Firm, clay was then found to 25.0 feet. Finally, we encountered medium dense to very dense, corroded limerock to the boring termination depth of 35.0 feet.

SB-4: See Boring Location Plan (Sheet 2)
At this location, we encountered loose to medium dense, fine sand to 25.0 feet, followed by firm, clay to 30.0 feet. Very dense, corroded limerock was then found to 35.0 feet, followed by very dense, competent limerock to the boring termination depth of 40.0 feet.

SB-5: See Boring Location Plan (Sheet 2)
This test boring revealed the presence of loose, fine sand to 10.0 feet, followed by medium dense, fine sand to 30.0 feet. Loose, fine sand was then found to 35.0 feet, followed by medium dense, clayey sand to 50.0 feet. Finally, we encountered very dense, limerock which continued tot he boring termination depth fo 55.0 feet.

SB-6: See Boring Location Plan (Sheet 2)
During the completion of this boring, we encountered loose to very loose, fine sand to 4.0 feet, followed by loose, fine sand to 10.0 feet and medium dense to dense, fine sand to 25.0 feet. Medium dense, clayey sand with limerock fragments was then found to 30.0 feet. Finally, we encountered very dense, limerock which continued to the boring termination depth of 35.0 feet.

SB-7: See Boring Location Plan (Sheet 2)
During the completion of this test boring, we encountered the very loose, fine sand to 4.0 feet, followed by loose to medium dense, fine sand to 25.0 feet. Next, we encountered firm, clay to 30.0 feet, followed by very loose, corroded limerock to 35.0 feet. Finally, we encountered very dense, limerock which continued tot he boring termination depth of 40.0 feet.

UNCONFINED (SURFICIAL) AQUIFER CONDITIONS - GROUNDWATER CONDITIONS

The measured borehole, unconfined, ground water table level was not encountered within the upper 10.0± feet below existing land surface at any of the test boring locations. However, it must be noted that fluctuations in the groundwater level may occur due to variations in rainfall and other environmental or physical factors at the time measurements are made. We expect the ground water table will generally attain a peak level during the period from late August to mid-September. The lowest water level is generally recorded in May, just prior to commencement of the summer rains.

SUBSOIL EVALUATION

The overall site is underlain by predominately fine sands to clayey/silty sands to natural sandy clay type soils to the boring termination depth of 35.0 to 55.0 feet at respective test boring locations.

Boring No.	Depth of Sand (Feet)	Depth of Clayey Sand (Feet)	Depth of Clays/Silty, Sandy Clays (Feet)	Depth of Limerock (Feet)	Encountered GWT (Feet)
SB-1	0.0 - 21.0	—	21.0 - 26.0	26.0 - 35.0	None to 10.0'
SB-2	0.0 - 26.0	—	26.0 - 39.5	39.5 - 45.0	None to 10.0'
SB-3	0.0 - 21.0	—	21.0 - 26.0	26.0 - 35.0	None to 10.0'
SB-4	0.0 - 26.0	—	26.0 - 29.0	29.0 - 40.0	None to 10.0'
SB-5	0.0 - 36.0	36.0 - 44.0	—	46.0 - 50.0	None to 10.0'
SB-6	0.0 - 12.0	12.0 - 26.0	26.0 - 29.0	29.0 - 35.0	None to 10.0'
SB-7	0.0 - 26.0	—	26.0 - 32.0	32.0 - 40.0	None to 10.0'

LIMITATIONS

This report does not deal with the possibility of existence or eventual development of sinkhole on this site. Deep structural borings, geophysical investigation, or resistivity surveys would have to be conducted in order to evaluate the structural condition and stability of soil and rock formation.

Finally, determination of evidence of hydrocarbon contamination on this site is also beyond the scope of this report. However, we did not notice any indication (such as gasoline smell) which would suggest this site being contaminated.

GENERAL QUALIFICATIONS

This report has been prepared in order to aid in the evaluation of the subject site and to assist the owner in determining the suitability of the subject site, based on known project concepts. The scope is limited to the specific project and the location described herein, and our description of the project represents our understanding of the significant aspects relevant to soil and foundation characteristics. In the event that any changes in present project concepts as outlined in this report are planned, we should be informed so the changes can be reviewed and the conclusions of this report modified as necessary in writing by the soils and foundation engineer.

As a check, we recommend that we be authorized to review the project plans and specifications to confirm that the recommendations contained in this report have been interpreted in accordance with our intent.

Without this review, we will not be responsible for misinterpretation of our data, our analysis, and/or recommendations, nor how these are incorporated into the final design. It is recommended that all construction operations dealing with earthwork and foundations be reviewed by our soil engineer to provide information on which to base a decision whether the design requirements are fulfilled in the actual construction. We would welcome the opportunity to provide construction services for you during construction. The analysis and recommendations submitted in this report are based upon the data obtained from the soil borings performed at the locations indicated on the Boring Location Plan, and from any other information discussed in this report. This report does not reflect any variations which may occur between these borings. In the performance of subsurface investigations, specific information is obtained at specific locations at specific times.

However, it is a well known fact that variations in soil and rock conditions exist on most sites between boring locations, and also such situations as groundwater levels vary from time to time. The nature and extent of variations may not become evident until the course of construction. If variations then appear evident, it will be necessary for a re-evaluation of the recommendations of this report after performing on-site observations during the construction period and noting the characteristics of any variations.

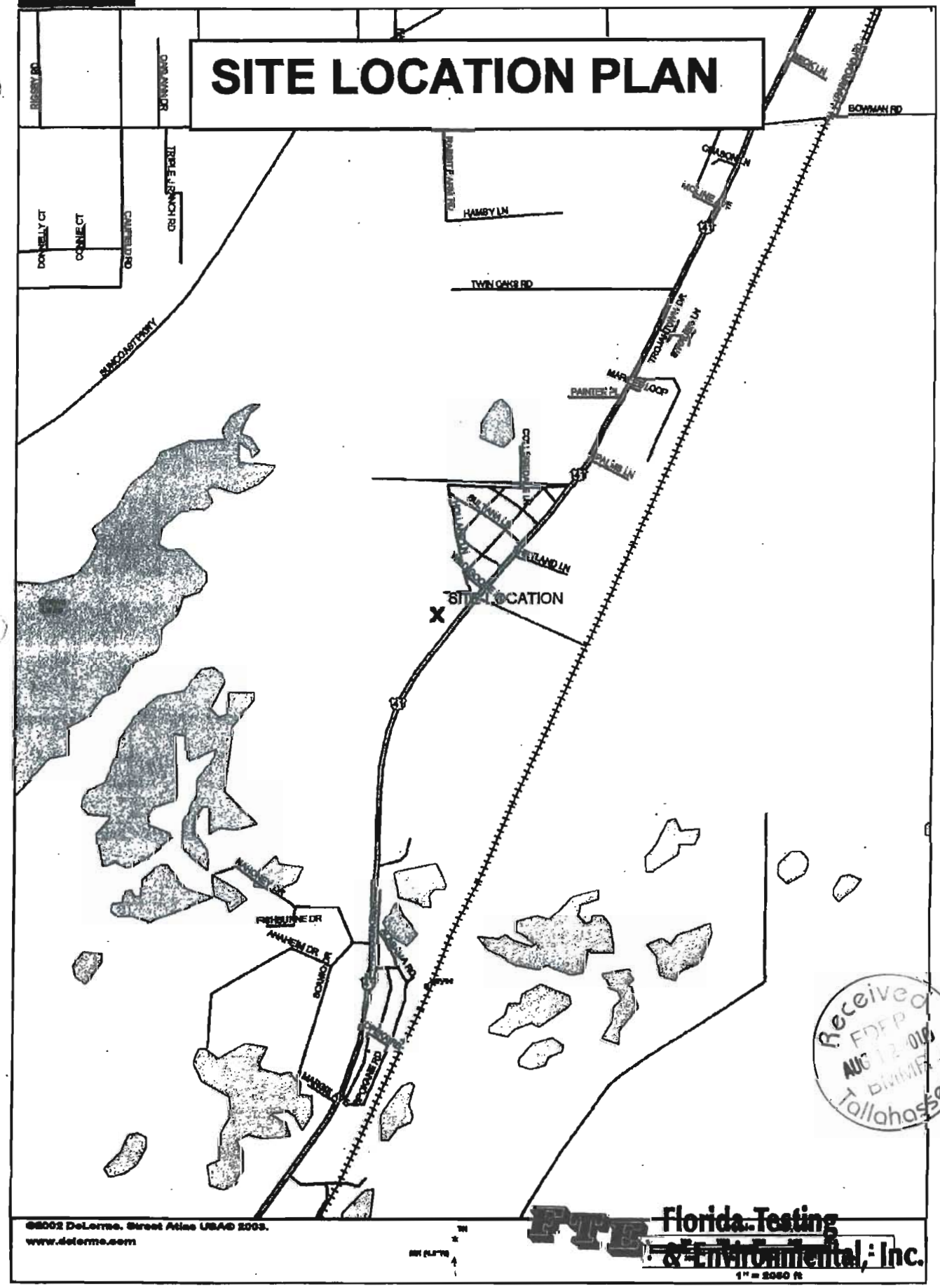
APPENDIX

SHEET 1
SITE LOCATION PLAN

DELORME

Street Atlas USA® 2003

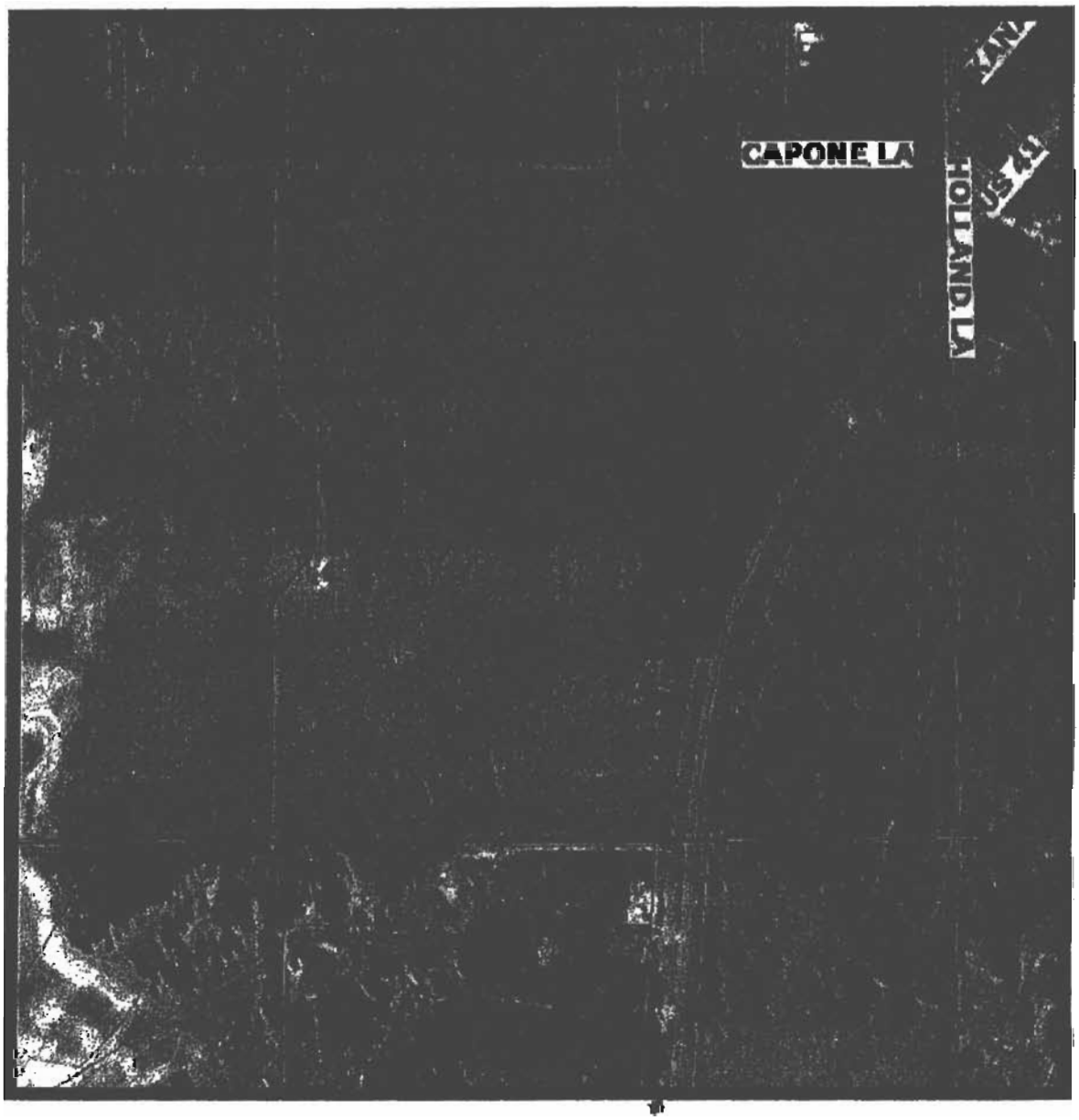
SITE LOCATION PLAN



1" = 2050 ft

Florida Testing & Environmental, Inc.

SHEET 2
BORING LOCATION PLAN



BORING LOCATION PLAN

Florida Testing & Environmental, Inc.	U.S. HIGHWAY 41 PROJECT PASCO COUNTY, FLORIDA KIMLEY-HORN & ASSOCIATES, INC. MR. STUART ROGERS, P.E. FTE PROJECT NO.: 05-8336

SHEET 3
ASTM SPECIFICATION D 1586

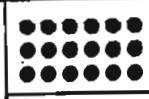
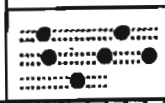
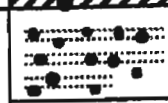
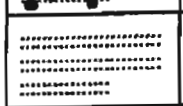
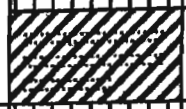
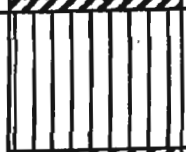
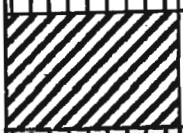
STANDARD PENETRATION TEST

The Standard Penetration Test is a widely accepted method of in-situ testing of foundation soils (ASTM D-1586). A two-foot long, two-inch outside diameter, split-barrel ("spoon") sampler, attached to the end of drilling rods, is driven 18.0 inches into the ground by successive blows of a 140-pound hammer freely dropping 30.0 inches. The number of blows needed for each six (6) inches of penetration is recorded. The sum of the blows required for penetration of the second and third six-inch increments of penetration constitutes the test result or N-value. After the test, the sampler is extracted from the ground and opened to allow visual examination and classification of the retained soil sample. The N-value has been empirically correlated with various soil properties allowing a conservative estimate of the behavior of soils under load.

The tests are usually performed at five-foot intervals. However, more frequent or continuous testing is done by our firm through depths where a more accurate definition of the soils is required. The test holes are advanced to the test elevations by rotary drilling with a cutting bit, using circulating fluid to remove the cuttings and hold the fine grains in suspension. Usually, the circulating fluid, which is a bentonite drilling mud, also serves to keep the hole open below the water table by maintaining an excess hydrostatic pressure inside the hole. In some soil deposits, particularly highly pervious ones, flush-coupled casing must be driven to just above the testing depth to keep the hole open and/or to prevent the loss of circulating fluid.

Representative split-spoon samples from soils at every five feet of drilled depth and from every different stratum are brought to our laboratory in air-tight jars for further evaluation and testing, if necessary. Samples not used in testing are stored for at least thirty (30) days prior to being discarded. After completion of a test boring, the hole is kept open until a steady state groundwater level is recorded. The hole is then sealed if necessary, and backfilled.

SHEET 4
UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SANDS MORE THAN 50% OF COARSE FRACTIONS RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTIONS PASSING NO. 4 SIEVE	CLEAN SAND (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND-SILT MIXTURES
				SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OR LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, FAT CLAYS
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

UNIFIED SOIL CLASSIFICATION SYSTEM

STANDARD CLAUSE FOR UNANTICIPATED SUBSURFACE CONDITIONS

"The owner has had a subsurface investigation performed by a foundation consultant, the results of which are contained in the consultant's report. The consultant's report presents his conclusions on the subsurface conditions based on his interpretation of the data obtained in the investigation. The contractor acknowledges that he has reviewed the consultant's report and any addenda thereto, and that his bid for earthwork operations is based on the subsurface conditions, as described in that report. It is recognized that a subsurface investigation may not disclose all conditions as they actually exist and further, conditions may change, particularly groundwater conditions, between the time of a subsurface investigation and the time of earthwork operations. In recognition of these facts, this clause is entered in the contract to provide a means of equitable additional compensation for the contractor if adverse unanticipated conditions are encountered, and to provide a means of rebate to the owner if the conditions are more favorable than anticipated.

At any time during earthwork, paving and foundation construction operations that the contractor encounters conditions that are different than those anticipated by the foundation consultant's report, he shall immediately (within 24 hours) bring this fact to the owner's attention. If the owner's representative on the construction site observes subsurface conditions which are different than those anticipated by the foundation consultant's report, he shall immediately (within 24 hours) bring this fact to the contractor's attention. Once a fact of unanticipated conditions has been brought to the attention of either the owner or the contractor, and the consultant has concurred, immediate negotiations will be undertaken between the owner and the contractor to arrive at a change in contract price for additional work or reduction in work because of the unanticipated conditions. The contractor agrees that the following unit prices would apply for additional or reduced work under the contract. For changed conditions for which unit prices are not provided, the additional work shall be paid for on a time and material basis".

Another example of a changed conditions clause can be found in paper No. 4035 by Robert F. Borg published in ASCE Construction Division Journal, No. C02, September 1964, page 37.

SHEET 5

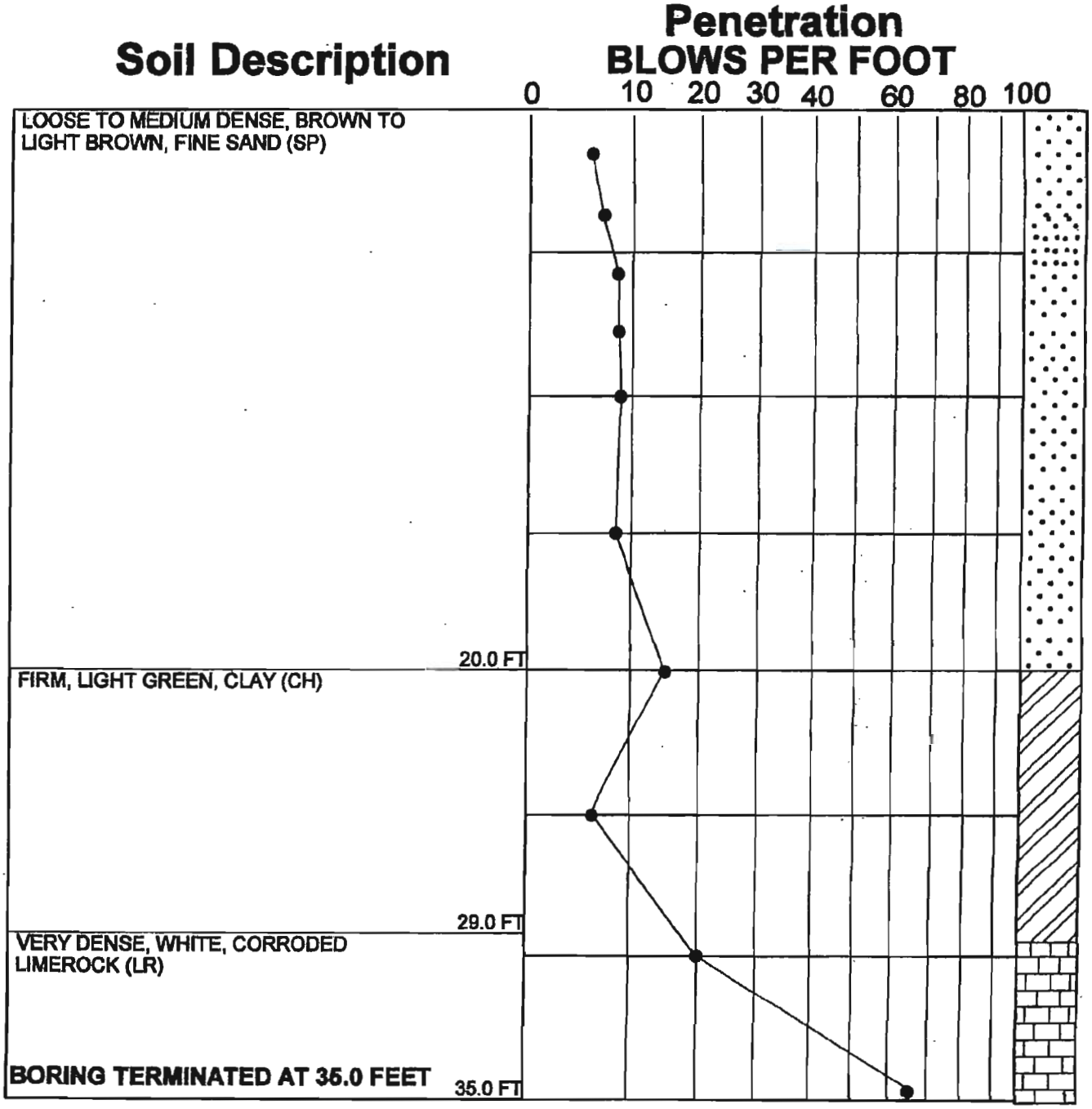
LABORATORY TEST RESULTS

LABORATORY TEST RESULTS - US HIGHWAY 41 - SAND MINE PROJECT

BORING NUMBER	SAMPLE DEPTH IN FEET	MOISTURE CONTENT %	ORGANIC CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	% PASSING #200 SIEVE	U.S.C.S. CLASSIFICATION
SB-1	8.0 - 10.0	16.4	0%	N.P.	N.P.	7.6	Fine Sand (SP)
SB-1	23.5 - 25.0	19.2	0%	61	14	41.5	Fat Clay (CH)
SB-2	13.5 - 15.0	11.8	0%	N.P.	N.P.	8.4	Fine Sand (SP)
SB-2	28.5 - 30.0	24.6	0%	70	21	52.4	Fat Clay (CH)
SB-3	4.0 - 6.0	7.9	0%	N.P.	N.P.	9.1	Fine Sand (SP)
SB-3	23.5 - 25.0	23.8	0%	68	23	49.7	Fat Clay (CH)
SB-4	2.0 - 4.0	11.1	0%	N.P.	N.P.	6.9	Fine Sand (SP)
SB-4	28.5 - 30.0	15.9	0%	55	20	46.1	Fat Clay (CH)
SB-5	4.0 - 6.0	17.2	0%	N.P.	N.P.	6.1	Fine Sand (SP)
SB-5	38.5 - 40.0	19.8	0%	26	11	19.5	Fat Clay (CH)
SB-6	8.0 - 10.0	18.2	0%	N.P.	N.P.	4.1	Fine Sand (SP)
SB-6	26.0 - 29.0	23.2	0%	29	12	21.1	Fat Clay (CH)
SB-7	13.5 - 15.0	15.6	0%	N.P.	N.P.	6.2	Fine Sand (SP)
SB-7	28.5 - 30.0	19.8	0%	67	20	50.3	Fat Clay (CH)
SB-7	33.5 - 35.0	17.6	0%	N.P.	N.P.	14.6	Sand/Limerock Mix (SP-LR)

SPT BORING LOGS

GENERALIZED SUBSURFACE PROFILE



Project: VACANT TRACT OFF U.S. HIGHWAY 41 Date: JUNE 14, 2005 Boring No.: SB-1

Address: PASCO COUNTY, FLORIDA Client: KIMLEY-HORN & ASSOCIATES, INC.

Project No. 05-8336 Page 1 Ground Water: NOT ENCOUNTERED TO 10.0'

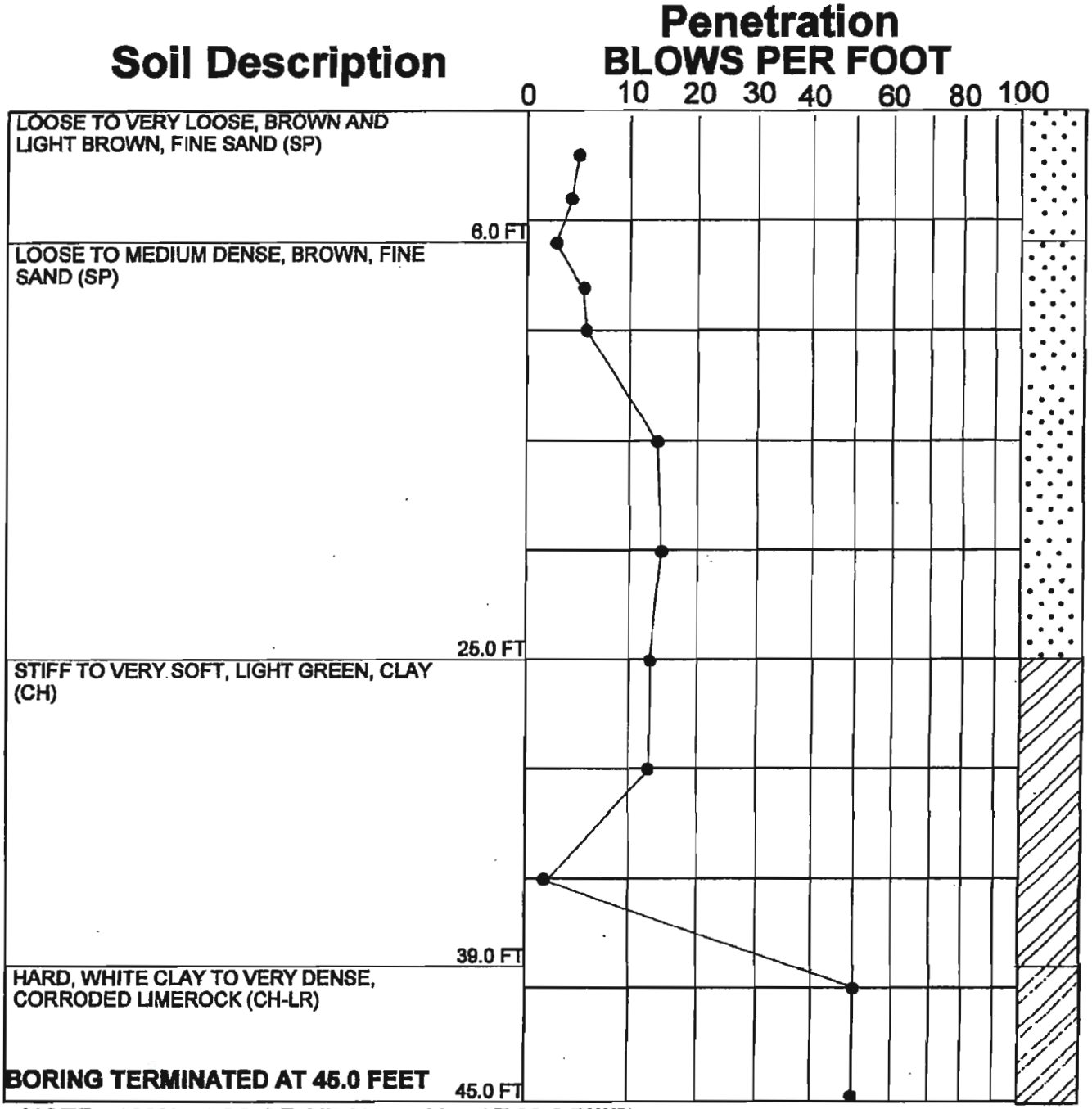
Boring and Sampling meet ASTM D-1586 Core Drilling meets ASTM D-2113

Penetration is the number of blows of 140 pound hammer falling 30 inches required to drive 1.4 inch I.D. sampler 1 foot.

FTE

Florida Testing & Environmental, Inc.

GENERALIZED SUBSURFACE PROFILE



NOTE: 100% LOSS OF CIRCULATION AT 33.0 FEET

Project: VACANT TRACT OFF U.S. HIGHWAY 41 Date: JUNE 14, 2005 Boring No.: SB-2

Address: PASCO COUNTY, FLORIDA Client: KIMLEY-HORN & ASSOCIATES, INC.

Project No. 05-8336 Page 1 Ground Water: NOT ENCOUNTERED TO 10.0'

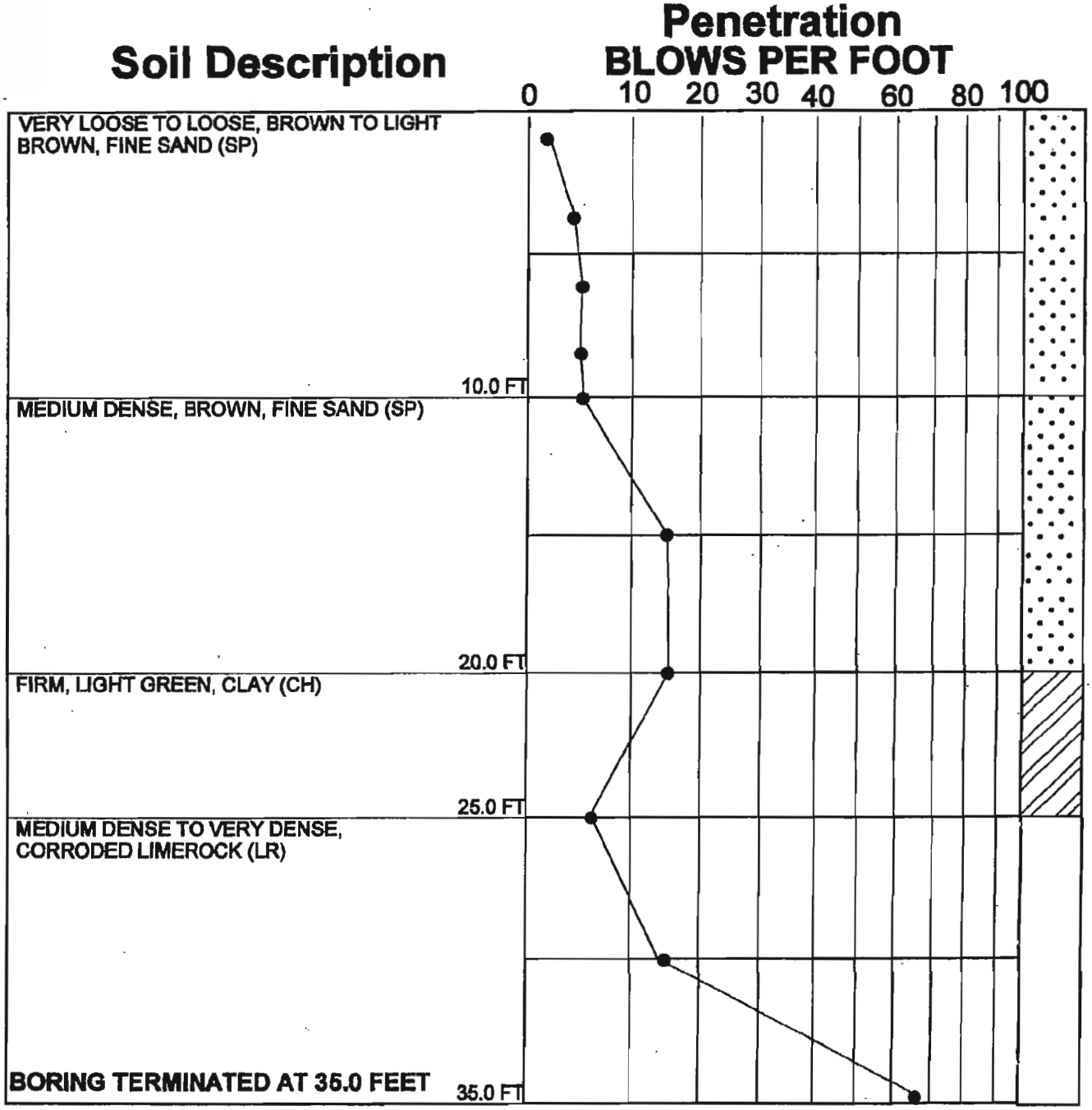
Boring and Sampling meet ASTM D-1586 Core Drilling meets ASTM D-2113

Penetration is the number of blows of 140 pound hammer falling 30 inches required to drive 1.4 inch I.D. sampler 1 foot.

FTE

Florida Testing & Environmental, Inc.

GENERALIZED SUBSURFACE PROFILE



NOTE: 100% LOSS OF CIRCULATION AT 33.0 FEET

Project: VACANT TRACT OFF U.S. HIGHWAY 41 Date: JUNE 14, 2005 Boring No.: SB-3

Address: PASCO COUNTY, FLORIDA Client: KIMLEY-HORN & ASSOCIATES, INC.

Project No. 05-8336 Page 1 Ground Water: NOT ENCOUNTERED TO 10.0'

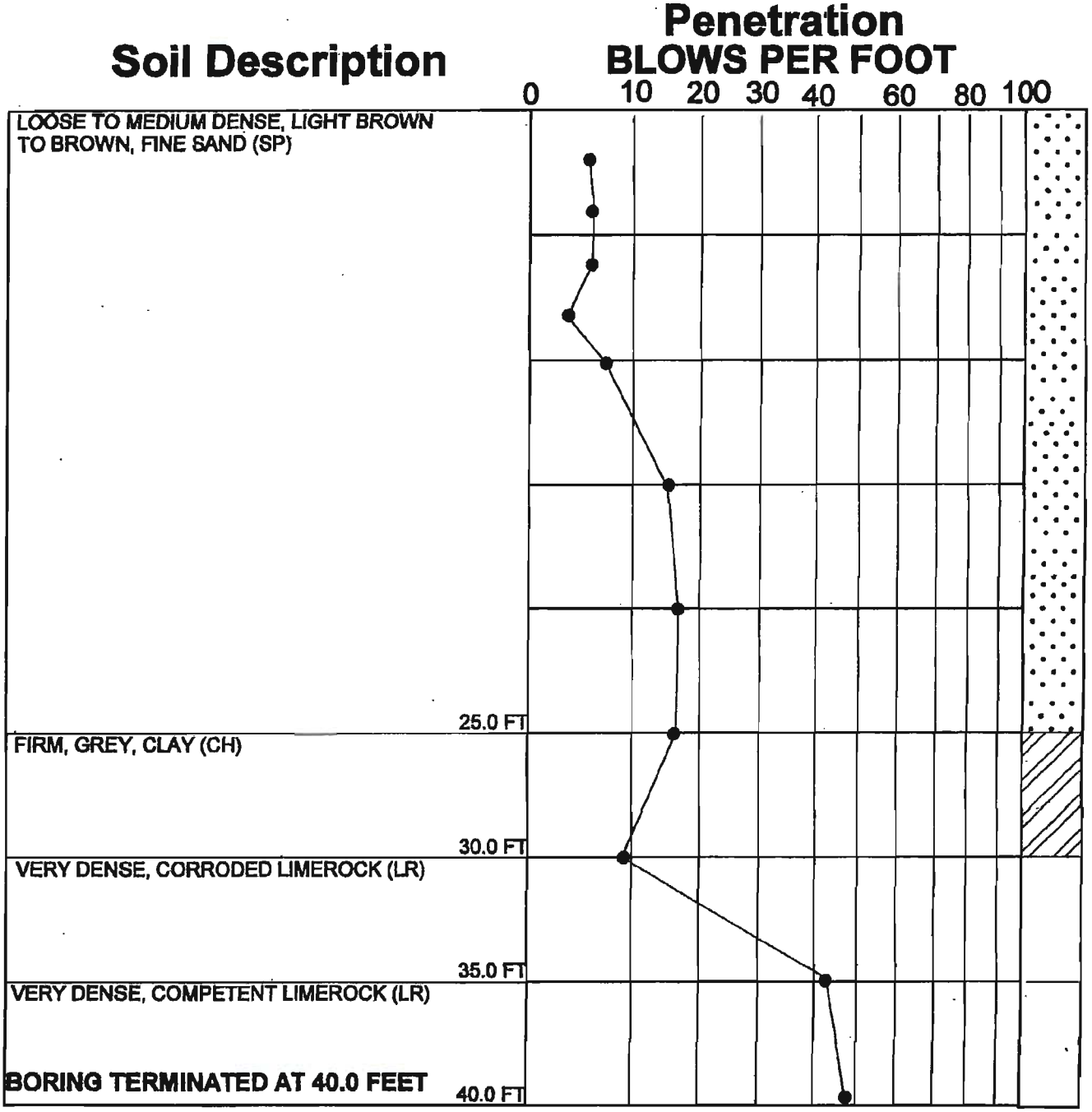
Boring and Sampling meet ASTM D-1586 Core Drilling meets ASTM D-2113

Penetration is the number of blows of 140 pound hammer falling 30 inches required to drive 1.4 inch I.D. sampler 1 foot.

FTE

Florida Testing & Environmental, Inc.

GENERALIZED SUBSURFACE PROFILE



NOTE: 100% LOSS OF CIRCULATION FROM 31 TO 33.5 FEET

Project: VACANT TRACT OFF U.S. HIGHWAY 41 Date: JUNE 14, 2005 Boring No.: SB-4

Address: PASCO COUNTY, FLORIDA Client: KIMLEY-HORN & ASSOCIATES, INC.

Project No. 05-8336 Page 1 Ground Water: NOT ENCOUNTERED TO 10.0'

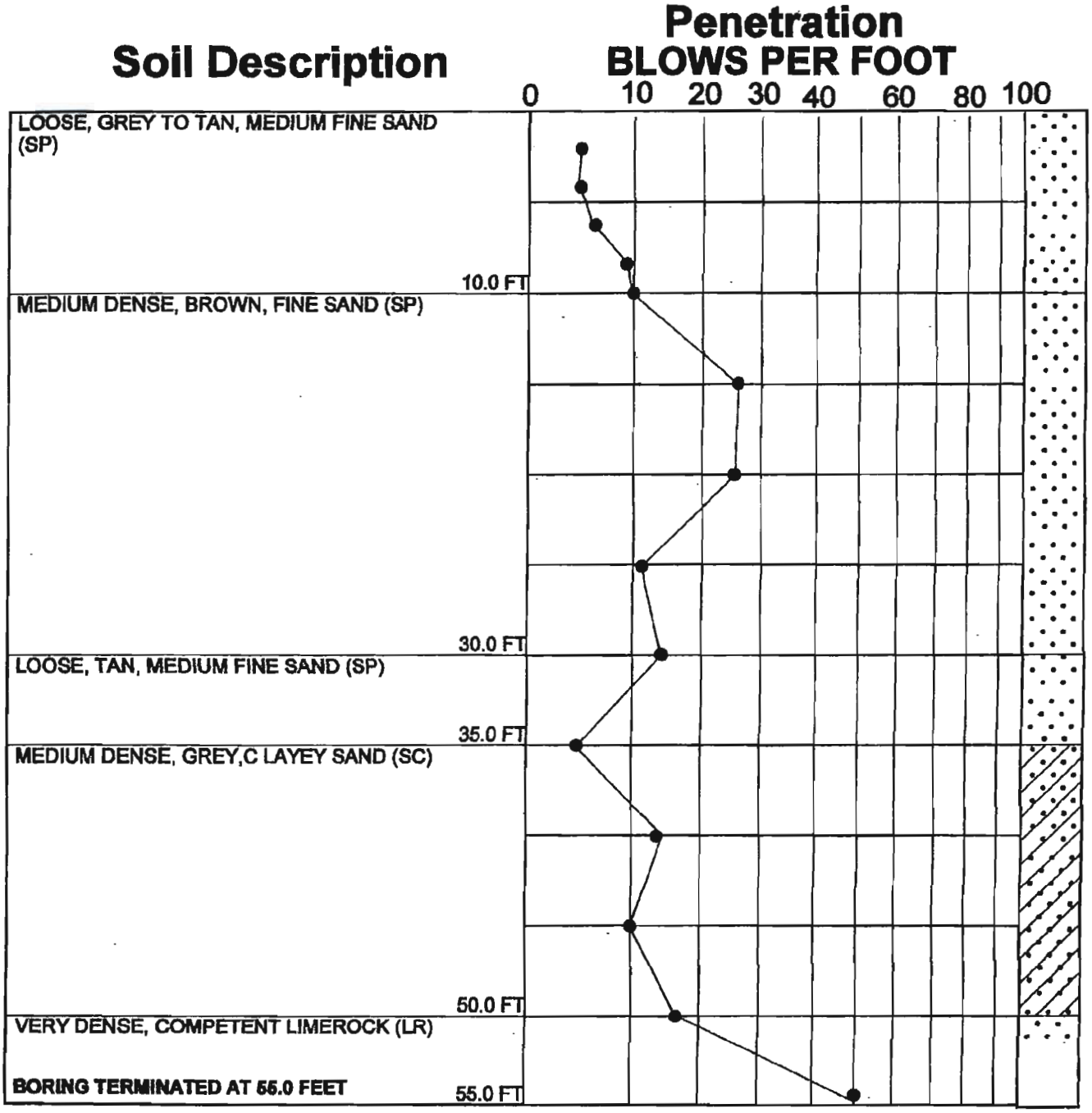
Boring and Sampling meet ASTM D-1586 Core Drilling meets ASTM D-2113

Penetration is the number of blows of 140 pound hammer falling 30 inches required to drive 1.4 inch I.D. sampler 1 foot.

FTE

Florida Testing & Environmental, Inc.

GENERALIZED SUBSURFACE PROFILE



NOTE: 50% LOSS OF CIRCULATION

Project: VACANT TRACT OFF U.S. HIGHWAY 41 Date: JUNE 14, 2005 Boring No.: SB-5

Address: PASCO COUNTY, FLORIDA Client: KIMLEY-HORN & ASSOCIATES, INC.

Project No. 05-8336 Page 1 Ground Water: NOT ENCOUNTERED TO 10.0'

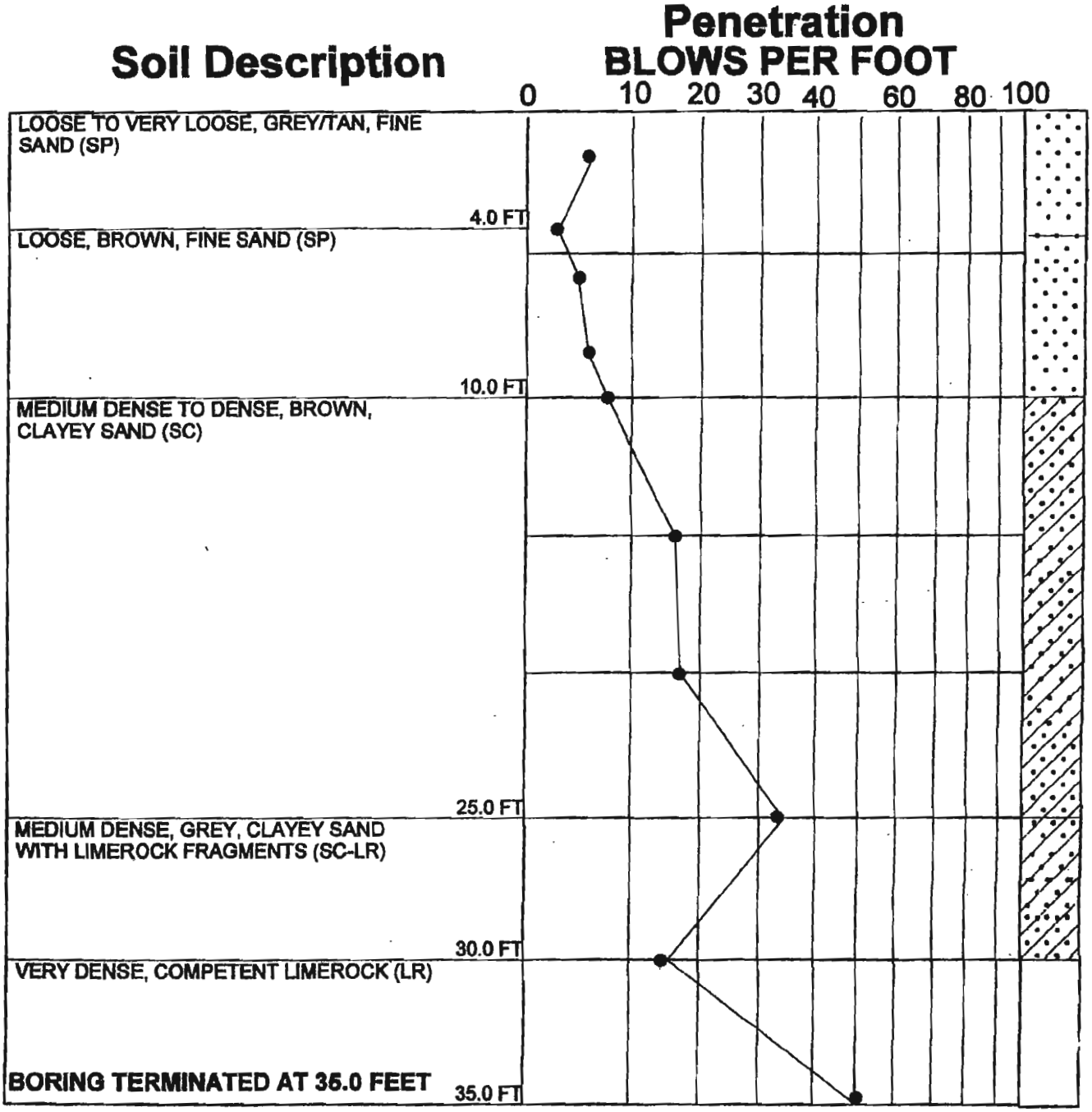
Boring and Sampling meet ASTM D-1586 Core Drilling meets ASTM D-2113

Penetration is the number of blows of 140 pound hammer falling 30 inches required to drive 1.4 inch I.D. sampler 1 foot.

FTE

Florida Testing & Environmental, Inc.

GENERALIZED SUBSURFACE PROFILE



NOTE: 100% LOSS OF CIRCULATION AT 35.0 FEET

Project: VACANT TRACT OFF U.S. HIGHWAY 41 Date: JUNE 14, 2005 Boring No.: SB-6

Address: PASCO COUNTY, FLORIDA Client: KIMLEY-HORN & ASSOCIATES, INC.

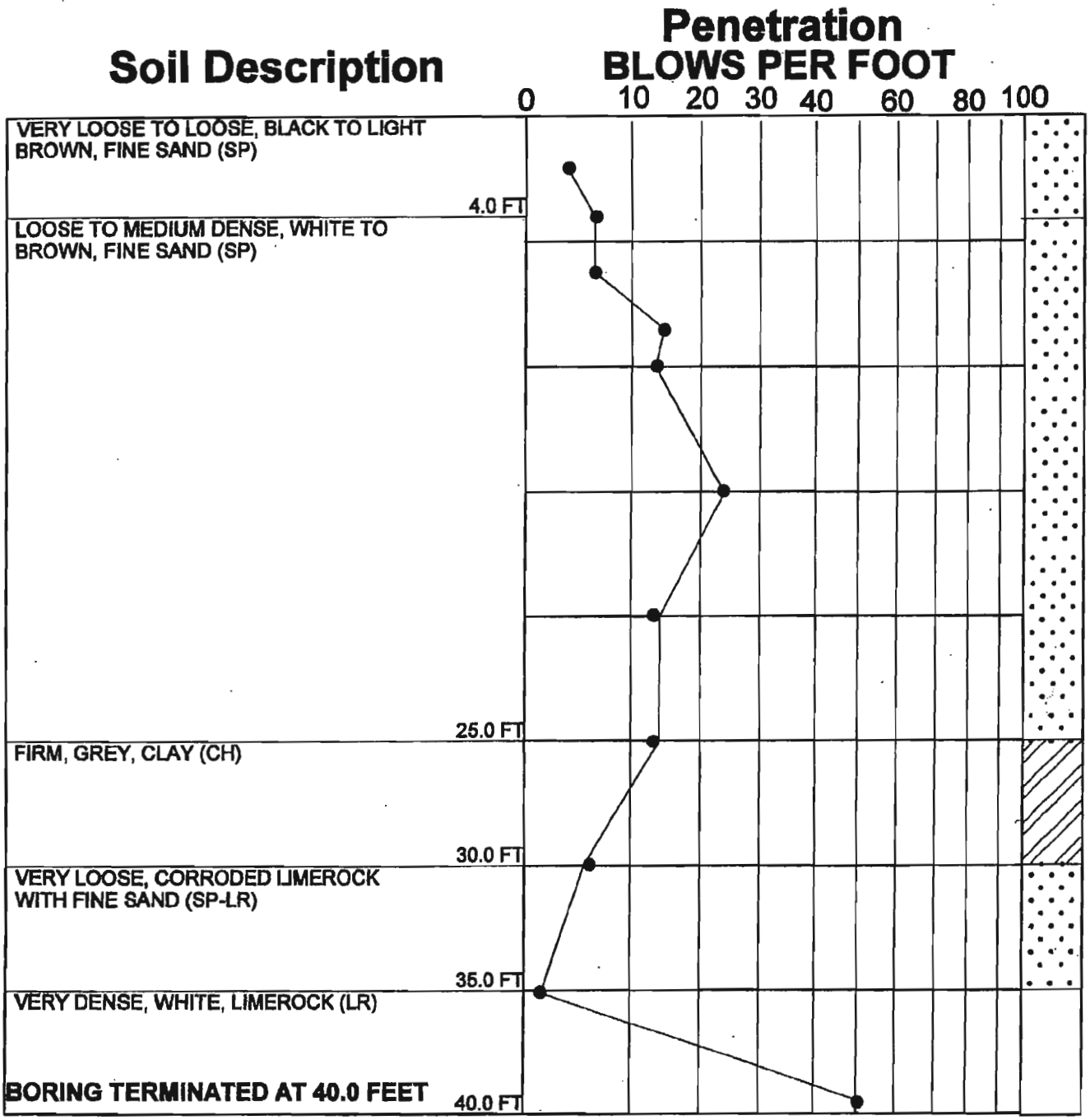
Project No. 05-8336 Page 1 Ground Water: NOT ENCOUNTERED TO 10.0'

Boring and Sampling meet ASTM D-1586 Core Drilling meets ASTM D-2113

Penetration is the number of blows of 140 pound hammer falling 30 inches required to drive 1.4 inch I.D. sampler 1 foot.

FTE
Florida Testing & Environmental, Inc.

GENERALIZED SUBSURFACE PROFILE



NOTE: 100% LOSS OF CIRCULATION AT 31.0 FEET

Project: VACANT TRACT OFF U.S. HIGHWAY 41 Date: JUNE 14, 2005 Boring No.:SB-7

Address: PASCO COUNTY, FLORIDA Client: KIMLEY-HORN & ASSOCIATES, INC.

Project No. 05-8336 Page 1 Ground Water: NOT ENCOUNTERED TO 10.0'

Boring and Sampling meet ASTM D-1586 Core Drilling meets ASTM D-2113

Penetration is the number of blows of 140 pound hammer falling 30 inches required to drive 1.4 inch I.D. sampler 1 foot.

FTE

Florida Testing & Environmental, Inc.