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  - Site address (may be on 1<sup>st</sup> or 2<sup>nd</sup> page of text)
- Executive Summary and associated figures
- Table of Contents plate attachment
- Project Location Plan/Map or Vicinity Map
- Site Plans, Boring Location Plans, or Exploration Plans
- Survey
- Geologic Maps
- Cross Sections/Subsurface Profiles
- Fill or Peat Thickness Maps and Contour Maps
- Boring Logs
- Geology Text (if no logs)
- Soil Classification Key/Boring Log Key
- Probe Logs
- Test Pit Logs
- Monitoring Well Logs
- Cone Penetrometer Logs
- Shear Wave Velocity Measurements
- Groundwater Maps
- GW Elevation Tables/Data
- Soils Lab Testing (Geotechnical) Summary Tables
- Grain Size Analyses/Hydrometer Analyses
  - Atterberg Limits
  - Strength tests: Triaxial, Unconfined, Direct Shear
  - Organic Content
  - <sup>14</sup>C or Radiocarbon Testing
  - Other \_\_\_\_\_
- Soil Chemical Analytical Testing Summary Tables
- Water/Groundwater Chemical Analytical Summary Tables
- Comments \_\_\_\_\_
- Date Copied 04/27/00 By CM

2/9/99

**GEOTECH  
CONSULTANTS, INC.**

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July 29, 1999

JN 99107

3415

Joe Fairbanks  
c/o Kovalenko Hale Architects  
208 South Main Street  
Seattle, Washington 98104

Attention: Paul Stricker

Subject: **Transmittal Letter – Geotechnical Engineering Study**  
Proposed Fairbanks Residence  
2817 Magnolia Boulevard West  
Seattle, Washington

Dear Mr. Stricker:

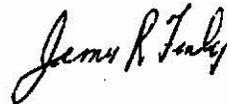
We are pleased to present this geotechnical engineering report for the proposed residence to be constructed in Seattle, Washington. The scope of our work consisted of exploring site surface and subsurface conditions, and then developing this report to provide recommendations for general earthwork and design criteria for foundations and retaining walls. This work was authorized by your acceptance of our proposal, P-4941, dated June 3, 1999.

The subsurface conditions of the proposed building site were explored with one test pit that encountered approximately 2.5 feet of loose, gravelly sand topsoil and fill overlying medium-dense to dense, native sand. The proposed residence may be supported on conventional foundations bearing directly on the native, medium-dense to dense sand. Depending on final grading, some overexcavation may be necessary to reach the competent sand.

The attached report contains a discussion of the study and our recommendations. Please contact us if there are any questions regarding this report, or if we can be of further assistance during the design and construction phases of this project.

Respectfully submitted,

GEOTECH CONSULTANTS, INC.



James R. Finley, P.E.  
Principal

JRF: alt



2817 Magnolia BV West

**GEOTECHNICAL ENGINEERING STUDY**  
**Proposed Fairbanks Residence**  
**2817 Magnolia Boulevard West**  
**Seattle, Washington**

This report presents the findings and recommendations of our geotechnical engineering study for the site of the proposed Fairbanks residence in Seattle, Washington.

We were provided with faxed preliminary site plans, which include topographic information. Kovalenko Hale Architects faxed us these plans on March 17, 1999. Based on these plans and on conversations with Paul Stricker, we anticipate that the development will consist of removing the existing residence and building a new one in its place.

**SITE CONDITIONS**

**SURFACE CONDITIONS**

The Vicinity Map, Plate 1, illustrates the general location of the site. The site is located on the western side of Magnolia Boulevard West in the Magnolia section of Seattle. The subject site is currently developed with a two-story brick residence, with a daylight basement and a wooden and brick deck on its western side. There are some indications of settlement of the northern portion of the house; several large cracks in the concrete foundation wall and brick are clearly visible on the western basement wall. A concrete driveway provides access to the rear of the house off of an alley. There is a relatively short, steep slope on the eastern side of the site, and access to the house off of Magnolia Boulevard West is via a sidewalk that switches back on this slope. The slope is covered with ferns and other low-growth vegetation. The area around the existing residence is relatively flat. However, there is a steep slope, with an inclination of approximately 40 percent, on the northwest corner of the property. It appears that the majority of the slope has been covered with concrete, and that the concrete has been overgrown with ivy and ferns. There are tall deciduous and evergreen trees on the slope. No evidence of recent slope instability was observed on the site during our site visit.

**SUBSURFACE CONDITIONS**

The subsurface conditions were explored by excavating one test pit at the approximate location shown on the Site Exploration Plan, Plate 2. The field exploration program was based upon the proposed construction and required design criteria, the site topography and access, the subsurface conditions revealed during excavation and drilling, and the scope of work outlined in our proposal.

The test pit was excavated on June 17, 1999 with a rubber-tired backhoe. A geotechnical engineer from our staff observed the excavation process, logged the test pit, and obtained representative samples of the soil encountered. "Grab" samples of selected subsurface soil were collected from the backhoe bucket. The Test Pit Log is attached to this report as Plate 3.

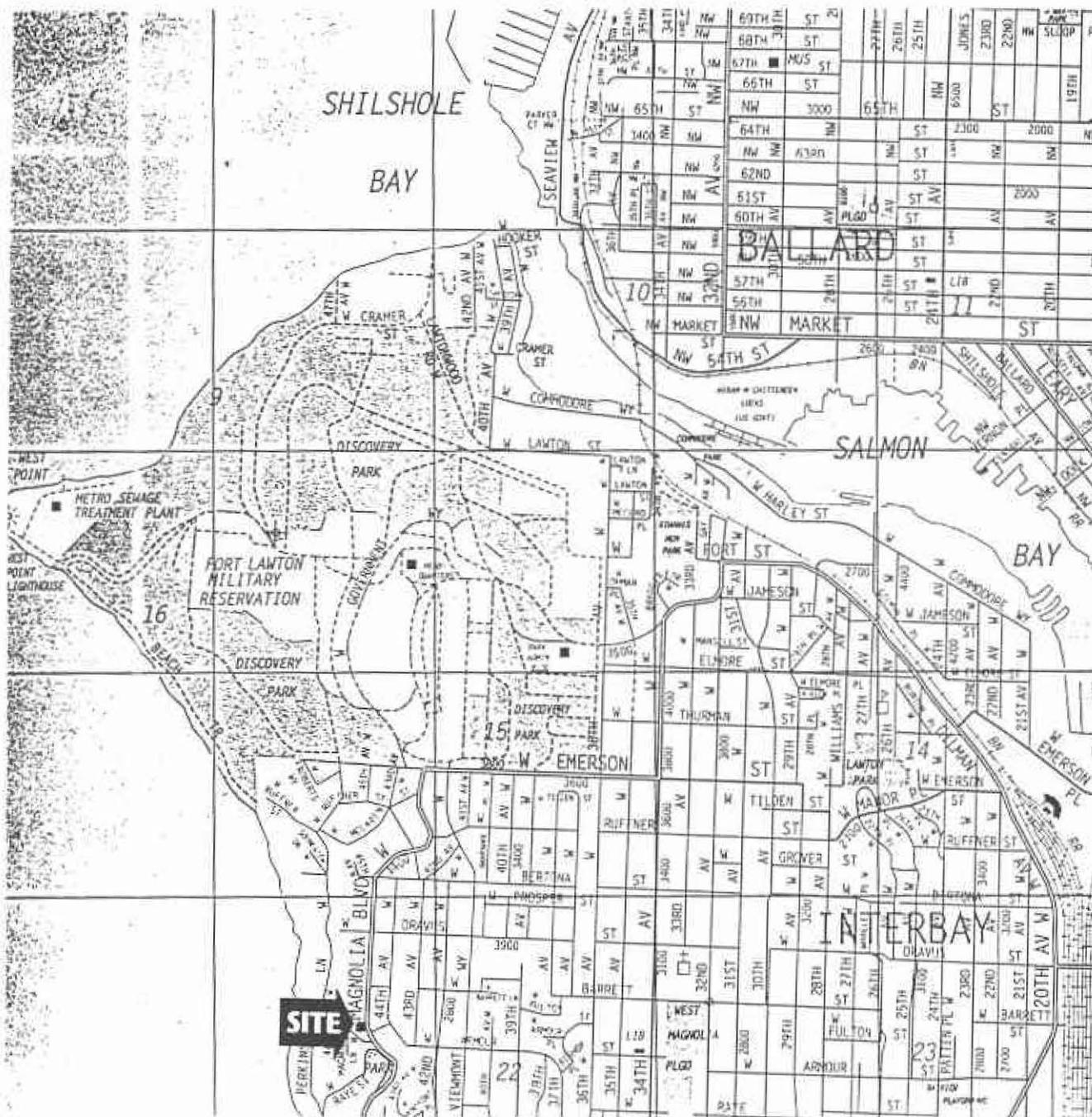
expressed or implied. The scope of our services does not include services related to construction safety precautions, and our recommendations are not intended to direct the contractor's methods, techniques, sequences, or procedures, except as specifically described in our report for consideration in design. This report should be provided to any future property owners to inform them of our findings and recommendations. Additionally, this report should be provided in the project contract documents for the information of the contractor.

### **ADDITIONAL SERVICES**

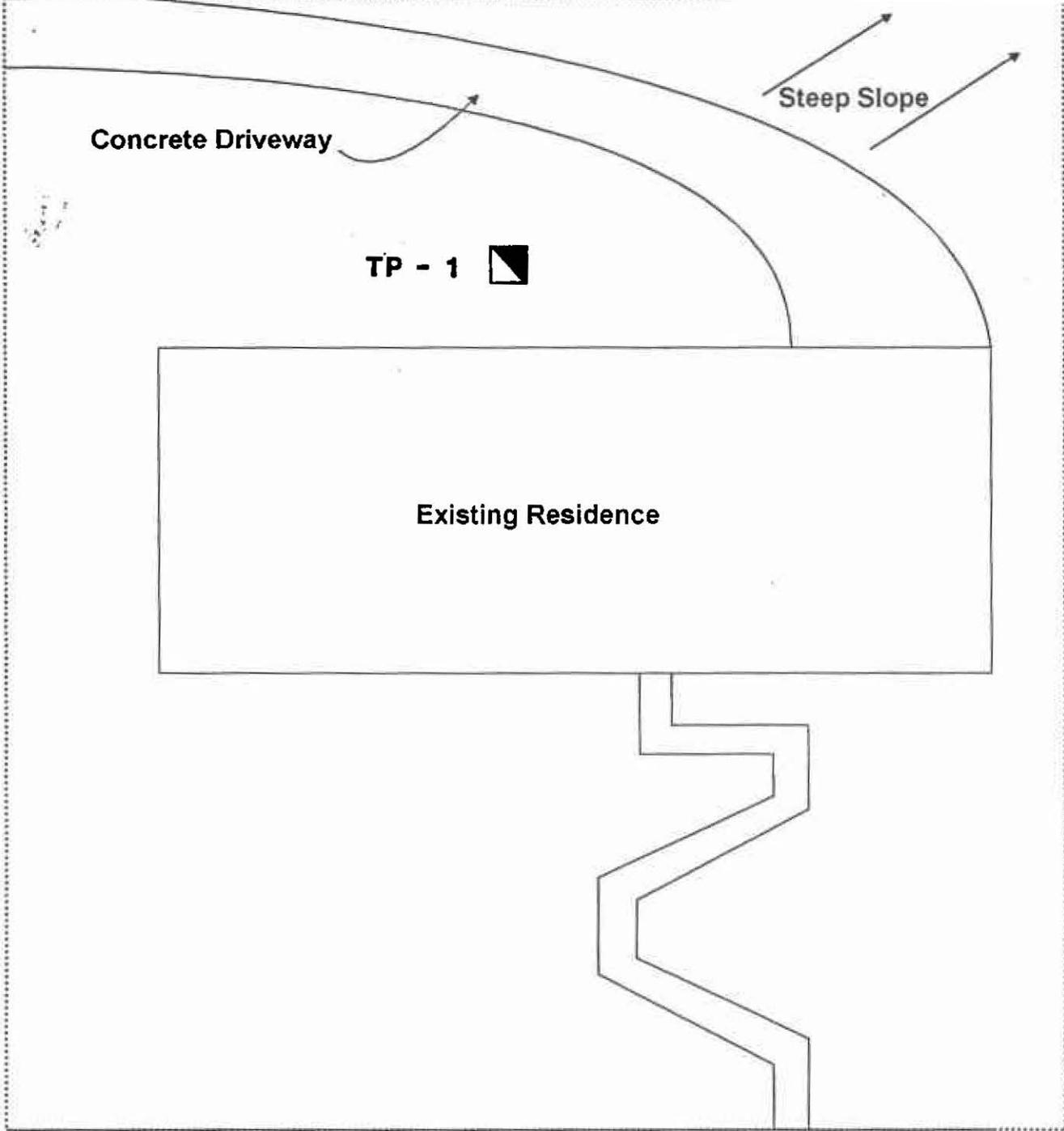
In addition to reviewing the final plans, Geotech Consultants, Inc. should be retained to provide geotechnical consultation, testing, and observation services during construction. This is to confirm that subsurface conditions are consistent with those indicated by our exploration, to evaluate whether earthwork and foundation construction activities comply with the general intent of the recommendations presented in this report, and to provide suggestions for design changes in the event subsurface conditions differ from those anticipated prior to the start of construction. However, our work would not include the supervision or direction of the actual work of the contractor and its employees or agents. Also, job and site safety, and dimensional measurements, will be the responsibility of the contractor.

The following plates are attached to complete this report:

Plate 1	Vicinity Map
Plate 2	Site Exploration Plan
Plate 3	Test Pit Log
Plate 4	Footing Drain Detail



<b>VICINITY MAP</b>			
2817 Magnolia Boulevard West Seattle, Washington			
<b>Job No:</b> 99107	<b>Date:</b> June 1999	<b>Logged by:</b> EMT	<b>Plate:</b> 1



Concrete Driveway

Steep Slope

TP - 1 

Existing Residence

Magnolia Boulevard West

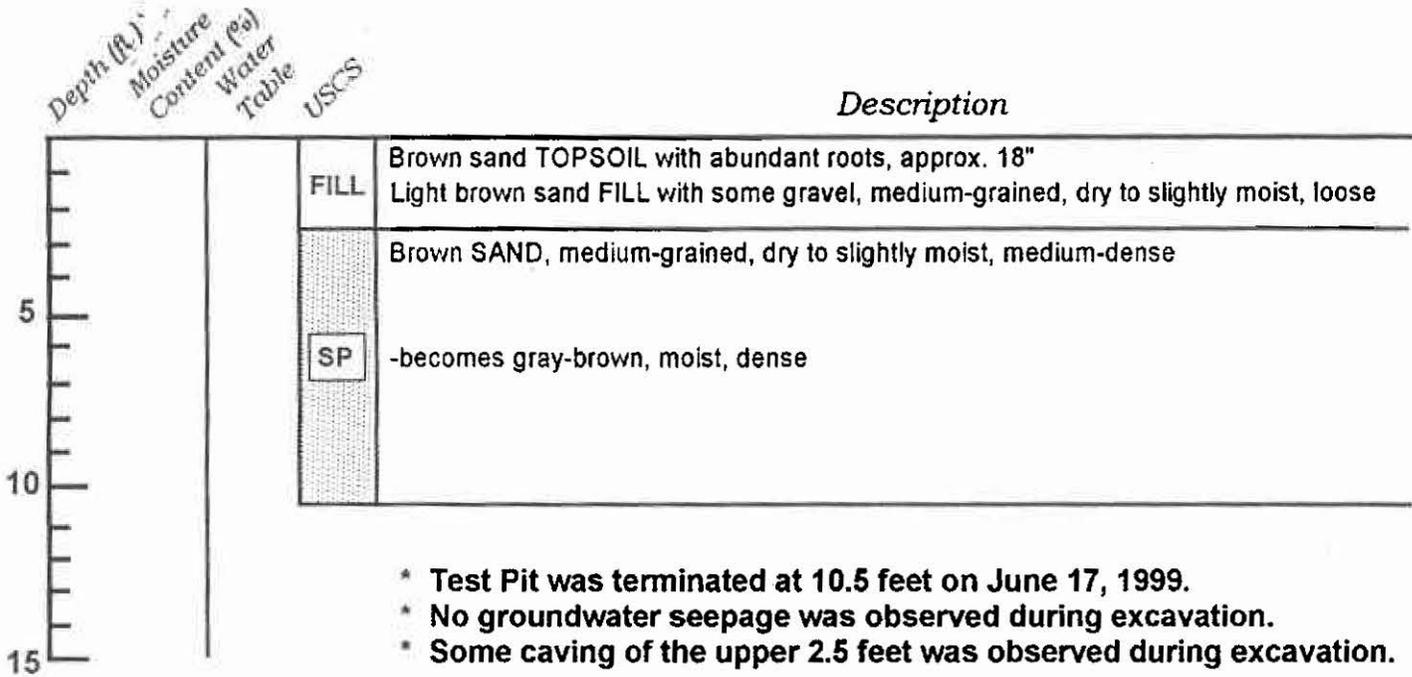



**GEOTECH**  
CONSULTANTS, INC.

**SITE PLAN**  
2817 Magnolia Boulevard West  
Seattle, Washington

<b>Job No:</b> 99107	<b>Date:</b> June 1999	<b>Not to Scale</b>	<b>Plate:</b> 2
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# TEST PIT 1



**TEST PIT LOG**  
 2817 Magnolia Boulevard West  
 Seattle, Washington

Job No: 99107	Date: June 1999	Logged by: EMT	Plate: 3
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