- [x] City box number recent reports
- [x] Title/cover page w/the following info:
  - [x] Company (author) name
  - [x] Report Date
  - [x] Project name
  - [x] Company's job number
  - [ ] City DCLU project number (7-digit number)
  - [x] City Permit number (6-digit number)
  - [ ] Kroll map index number (3-digit number, w?/E,W,N,S)
  - [ ] Green label
  - [x] Site address (may be on 1st or 2nd page of text)
- [ ] Executive Summary and associated figures
- [ ] Table of Contents
- [x] Project Location Plan/Map or Vicinity Map
- [x] 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)
- [x] Soil Classification Key/Boring Log Key
- [ ] Probe Logs
- [x] 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
  - [ ] ^{14}C or Radiocarbon Testing
  - [ ] Other_____
- [ ] Soil Chemical Analytical Testing Summary Tables
- [ ] Water/Groundwater Chemical Analytical Summary Tables
- [ ] Comments_____

3435

- [x] Date Copied 12/6/00 By Suzanne

2/9/99

709033

3435

8624 DELRIDGE AVENUE SW

LIU & ASSOCIATES, INC.

Geotechnical Engineering · Engineering Geology · Earth Science

April 27, 1999

Mr. Todd Peterson
Bay Development Corp.
1530 Eastlake Avenue East
Seattle, WA 98102

Dear Mr. Peterson:

Subject: Letter Report
Geotechnical Investigation
Four-Unit Apartment Building
8624 Delridge Avenue SW
Seattle, Washington
L&A Job No. 9032

INTRODUCTION

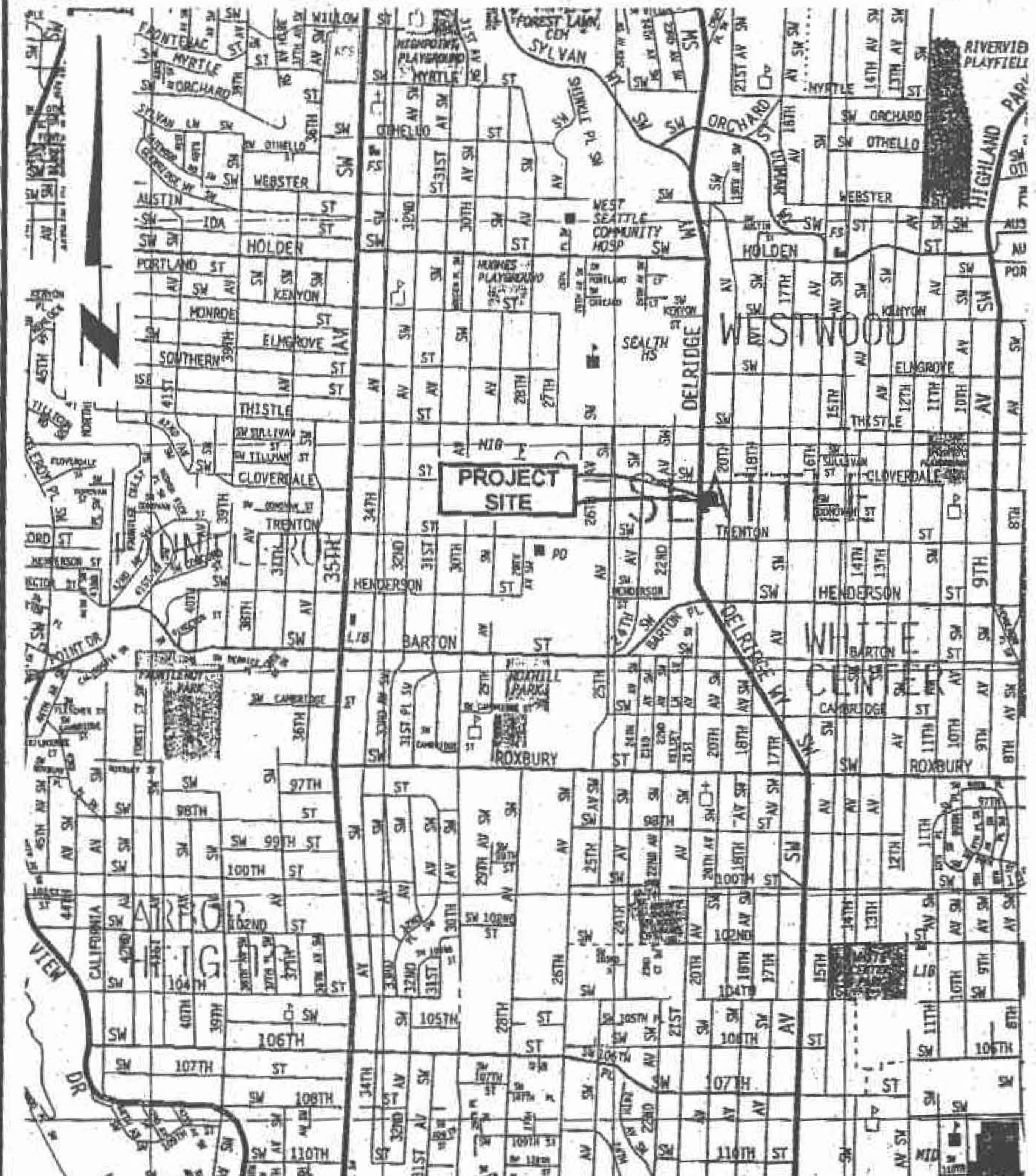
We have completed a geotechnical investigation for the site of a proposed four-unit apartment building to be located at 8624 Delridge Avenue SW in Seattle, Washington. Presented in this report are our findings, conclusions and geotechnical recommendations of this investigation.

The general location of the site is shown on Plate 1 - Vicinity Map. For our use in this investigation, you provided us with a set of architectural design drawings for the building and a topographic survey plan of the site.

PROJECT DESCRIPTION

The site is a rectangular lot currently vacant. The proposed development for the site is a new, two-story, wood-framed, above-grade, building with two apartment units on each floor. The lower level will have slab-on-grade concrete floors. The finished floor will be at El. 103.25 feet

19213 Kenlake Place NE · Kenmore, WA 98028
Phone (425) 483-9134 · Fax (425) 486-2746



LIU & ASSOCIATES, INC.

Geotechnical Engineering · Engineering Geology · Earth Science

VICINITY MAP

DUPLEX BUILDING

8624 DELRIDGE AVENUE SW

SEATTLE, WASHINGTON

JOB NO. 9032	DATE 4/16/99	PLATE 1

11/08/00 WED 11:48 FAX 2063236782 Bay Development 032

UNIFIED SOIL CLASSIFICATION SYSTEM

AJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE-GRAINED SOILS	GRAVEL	CLEAN GRAVEL	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE		GP	POORLY-GRADED GRAVEL
		GRAVEL WITH FINES	GM	SILTY GRAVEL
			GC	CLAYEY GRAVEL
	SAND	CLEAN SAND	SW	WELL-GRADED SAND, FINE TO COARSE SAND
MORE THAN 50% RETAINED ON THE NO. 200 SIEVE	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE		SP	POORLY-GRADED SAND
		SAND WITH FINES	SM	SILTY SAND
			SC	CLAYEY SAND
FINE-GRAINED SOILS	SILT AND CLAY	INORGANIC	ML	SILT
	LIQUID LIMIT LESS THAN 50%		CL	CLAY
		ORGANIC	OL	ORGANIC SILT, ORGANIC CLAY
MORE THAN 50% PASSING ON THE NO. 200 SIEVE	SILTY AND CLAY	INORGANIC	MH	SILT OF HIGH PLASTICITY, ELASTIC SILT
	LIQUID LIMIT 50% OR MORE		CH	CLAY OF HIGH PLASTICITY, FAT CLAY
		ORGANIC	OH	ORGANIC SILT, ORGANIC SILT
HIGHLY ORGANIC SOILS			PT	PEAT AND OTHER HIGHLY ORGANIC SOILS

NOTES:

1. FIELD CLASSIFICATION IS BASED ON VISUAL EXAMINATION OF SOIL IN GENERAL ACCORDANCE WITH ASTM D2488-83.
2. SOIL CLASSIFICATION USING LABORATORY TESTS IS BASED ON ASTM D2487-83.
3. DESCRIPTIONS OF SOIL DENSITY OR CONSISTENCY ARE BASED ON INTERPRETATION OF BLOW-COUNT DATA, VISUAL APPEARANCE OF SOILS, AND/OR TEST DATA.

SOIL MOISTURE MODIFIERS:

DRY - ABSENCE OF MOISTURE, DUSTY, DRY TO THE TOUCH

SLIGHTLY MOIST - TRACE MOISTURE, NOT DUSTY

MOIST - DAMP, BUT NO VISIBLE WATER

VERY MOIST - VERY DAMP, MOISTURE FELT TO THE TOUCH

WET - VISIBLE FREE WATER OR SATURATED, USUALLY SOIL IS OBTAINED FROM BELOW WATER TABLE

LIU & ASSOCIATES

Geotechnical Engineering · Engineering Geology · Earth Science

UNIFIED SOIL CLASSIFICATION SYSTEM

PLATE 3

TEST PIT NO. 1

Logged By: JSL Date: 4/8/99 Ground El. 104.0' ±

Depth ft.	USCS CLASS.	Soil Description	Sample No.	W %	Other Test
1	OL	Dark brown to black, organic, loose, silty, fine SAND w/ roots, moist (TOPSOIL)			
2	SM	Brown, medium dense, silty, fine SAND, moist			
3, 4	SM	Tan to orange-brown, dense, silty, fine SAND with trace of gravel, moist (WEATHERED GLACIAL TILL)			
5, 6, 7	SM	Tan-gray, very dense, silty, fine SAND with gravel, moist (FRESH GLACIAL TILL)			
8, 9, 10, 11, 12		Test pit terminated at 7.0 ft, groundwater not encountered.			

TEST PIT NO. 2

Logged By: JSL Date: 4/8/99 Ground El. 102.0' ±

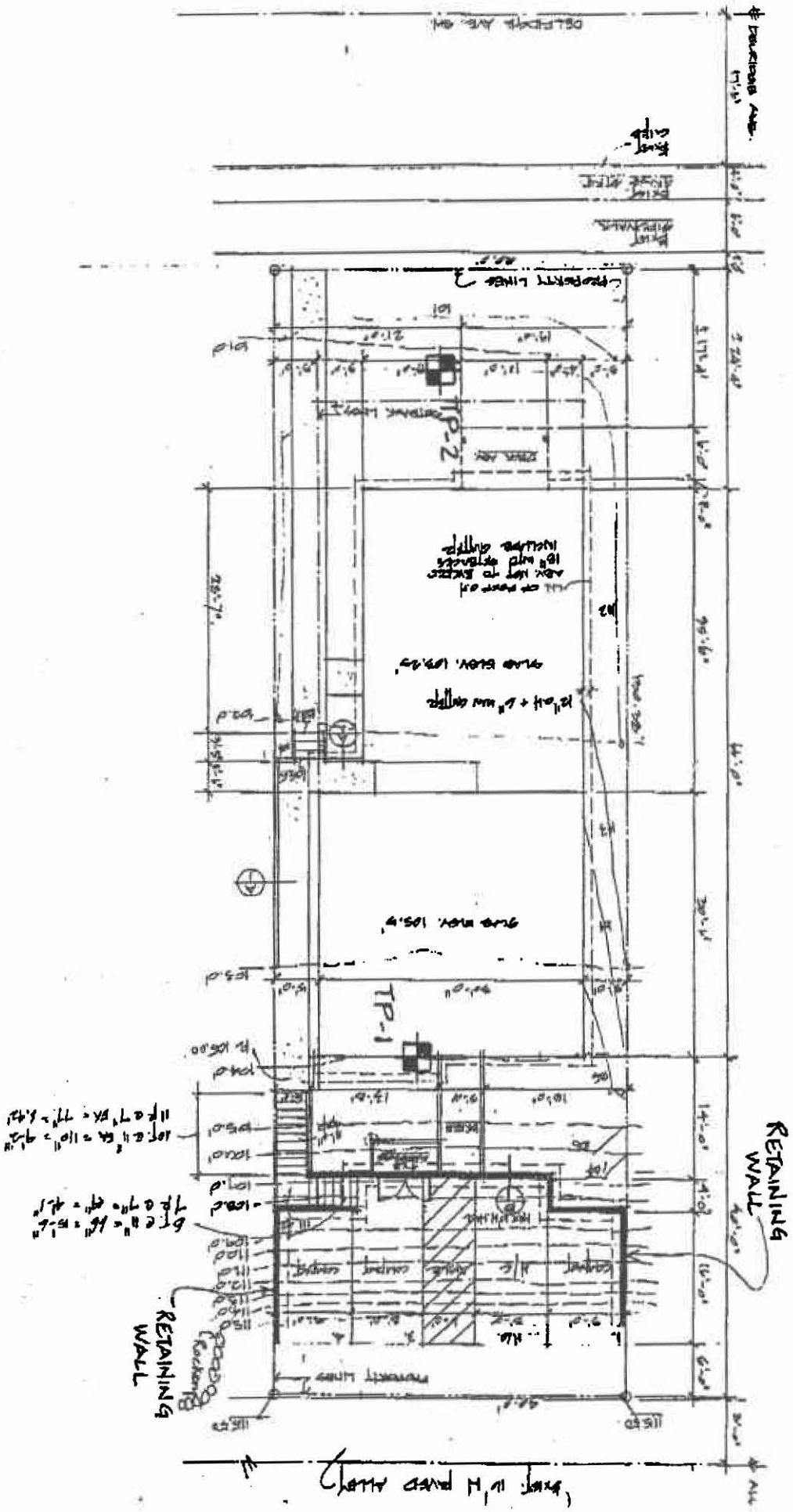
Depth ft.	USCS CLASS.	Soil Description	Sample No.	W. %	Other Test
1	OL	Dark brown to black, organic, loose, silty, fine SAND w/ roots (TOPSOIL)			
2, 3, 4	SM	Tan, medium dense, slightly silty, fine SAND, very moist - Abandoned drain tile enclosed in washed gravel encountered @ 2.5 ft.			
5, 6, 7, 8	SM	Tan-gray, dense, slightly silty, fine SAND, moist			
9, 10		Test pit terminated at 8.0 ft, groundwater not encountered.			

LIU & ASSOCIATES, INC.

Geotechnical Engineering · Engineering Geology · Earth Science

TEST PIT LOGS
DUPLEX BUILDING
8624 DELRIDGE AVENUE SW
SEATTLE, WASHINGTON

JOB NO.	9032	DATE	4/16/99	PLATE	4


TP-2
TP-1
RETAINING WALL
RETAINING WALL