Foundation Engineering, Inc.

Professional Geotechnical Services

Terri Valiant
Matrix Development
515 SW Western Boulevard
Corvallis, Oregon 97333

September 15, 2004

Willamette Landing – Phase 2
Geotechnical Services – Lot 78
Corvallis, Oregon

Project 2021039-102

Dear Ms. Valiant:

Foundation Engineering, Inc. (FEI) conducted a geotechnical investigation of the site and presented our findings in a report dated January 18, 2002. General recommendations for site grading, residential site preparation and foundation design were included in the report. FEI was retained by Pahlisch Nielson Homes, LLC to provide engineering consultation and testing during the construction phase. Results of our observations and testing during site grading were presented in a letter dated November 5, 2002. Since the initial site grading, some additional fill placement has recently been conducted on Lot 78 to attain the required grades.

At your request, we visited Lot 78 of the above-referenced development periodically during the recent grading work. At our request, FEI Testing & Inspection, Inc. conducted field density testing of the on-site fill material during placement and compaction. The test results (attached) suggest that the material was adequately compacted.

Our observations and test results suggest the allowable bearing pressure (2,000 psf) and other recommendations presented in our geotechnical report are appropriate for foundations constructed on the compacted fill.

We have concluded, based on the results of our construction observations and field and laboratory testing, that the fill intended to support house foundations meets the requirements of UBC Appendix 33, Section 3313 (as adopted by the City of Corvallis). Therefore, the lots are approved for residential construction provided any soil that becomes soft or loose at the surface is removed prior to footing construction. We believe that the bulk of the deeper fill will not be adversely affected by wet weather. However, the surface of the fill is expected to soften when wet and should be re-evaluated immediately prior to construction.

It has been a pleasure assisting you with this phase of your project. Please do not hesitate to call if you have any questions.

Sincerely,

FOUNDATION ENGINEERING, INC.

Mel McCracken, P.E.
Project Manager

REGISTERED PROFESSIONAL ENGINEER
50451PE
OREGON
JUL. 14, 1998
MELVIN J. McCRACKEN
EXPIRES: 12/31/04

MJM/cs
Attachment

cc: Jasmin Woodside, OTAK (Corvallis)

FEI TESTING & INSPECTION, INC.

Geotechnical & Construction Services

Field Density Test Results – ASTM D 2922

Client: Mel McCracken, P.E.
Foundation Engineering, Inc.
820 NW Cornell Avenue
Corvallis, OR 97330

Project: Willamette Landing – Phase 4
Corvallis, Oregon

Date: 7-29-04
Project No.: 2046087
Report No.: C-04896

MOISTURE/DENSITY DATA: ASTM D 698 – Max. Dry Density 103.5 pcf, Optimum Moisture 19.0%. M/D information obtained from our sample no. 1439 dated 6-16-03 for brown, sandy SILT.

Test No.	Approximate Test Location	Approx. Elev.	Wet Density (pcf)	Percent Moisture	Dry Density (pcf)	Percent Compaction	Compaction Requirement (percent)
91	back of Lot 78	-7'	117.8	18.6	99.4	96	95
92	back of Lot 78	-5'	120.6	17.9	102.3	99	95
93	back of Lot 78	-3'	118.4	19.4	99.2	96	95
94	back of Lot 78	FG	122.0	20.1	101.6	98	95

Tests performed below finished grade and at finished grade of fill in lot.

Respectfully,

Keith R. Kernan, President

c: OTAK, Inc. – Jasmine Woodside (Fax)

KRK:ah