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Geotechnical Engineering and Drilling Services

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Ms. Rae M. Loui, P.E. *RML*
City & County of Honolulu
Department of Design & Construction
650 South King Street, 11th Floor
Honolulu, HI 96813

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REPORT OF PROGRESS
04/05/01

**PROGRESS REPORT NO. 4
PHASE III – INSTRUMENT MONITORING
KUAHEA STREET AREA MOVEMENT
PROJECT NO. 97504
PALOLO, OAHU, HAWAII**

Dear Ms. Loui:

This fourth quarterly report is presented to summarize our progress on the Kuahea Street Area Movement project located in Palolo Valley on the Island of Oahu, Hawaii, as shown on the Project Location Map, Plate 1. This report provides summary information pertaining to the recorded earth movements and subsurface water levels detected to-date during the Phase III instrument monitoring effort.

This report is the final quarterly report covering the initial 12-month instrument monitoring period, which commenced in February 2000. Because some additional instrumentation was installed after the monitoring period had commenced, the additional instruments will continue to be monitored monthly to complete their 12-month monitoring phase. We anticipate that a second 12-month monitoring phase would commence in August 2001, once all of the installed instruments have been initially monitored for a minimum of 12 months.

PHASE II – FIELD EXPLORATION

The completed field exploration consisted of drilling 15 borings ranging in depths from about 40 to 100 feet below the existing ground surface. Of the 15 borings drilled, inclinometer casings (identified as Boring Nos. I-1 through I-8) were installed in eight of the borings. The inclinometer casing installations ranged in depths from about 37 to 92 feet below the existing ground surface.

Seven of the 15 borings were converted to nested piezometers (identified as Boring Nos. P-1 through P-7). The nested piezometers consisted of screened pipe casings set to monitor the potential for groundwater in discrete 10 to 15-foot length intervals in the subsurface. The piezometer installations ranged in depths from about 37 to 69 feet below ground level.

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