cc: Bruce Rich

DEPARTMENT OF CONSERVATION

CALIFORNIA GEOLOGICAL SURVEY

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FACILITIES PLANNING & MANAGEMENT

August 18, 2010

Mr. Jeffrey Kingston
District Director of Facilities
Chabot Las Positas Community College District
5020 Franklin Drive
Pleasanton, CA 94588

Subject: **Second Engineering Geology and Seismology Review for Las Positas Community College – Student Services and Admin. Building 3000 Campus Hill Drive, Livermore, CA CGS Application No. 01-CGS0193 DSA Application No. 01-111019**

Dear Mr. Kingston:

In accordance with your request and transmittal of documents on August 10, 2010, the California Geological Survey has completed a second review of the engineering geology and seismology aspects of the consulting report prepared for Las Positas Community College in Livermore, California. This review was performed in accordance with Title 24, California Code of Regulations, 2007 California Building Code (CBC) and followed CGS Note 48 guidelines. We reviewed the following update letter:

> **Update to Geotechnical Report – Student Services and Administration Building, Las Positas Community College, Livermore, CA:** Ninyo & Moore, 1956 Webster Street, Suite 400, Oakland, CA 94612, Project No. 401426002, report dated July 30, 2010, 3 pages, and Figure 7.

In addition, we previously reviewed the following consulting report:

> **Geologic Hazards Assessment and Geotechnical Evaluation – Student Services and Administration Building, Las Positas Community College, Livermore, CA:** Ninyo & Moore, 1956 Webster Street, Suite 400, Oakland, CA 94612, Project No. 401426002, report dated November 3, 2009, 48 pages, Plates and Appendices attached.

CGS reviewed the consultants' July 30, 2010 update report, that describes how the project will be constructed using the revised Soils and Foundations (chapter 18A) requirements of the new 2010 California Building Code (CBC). Therefore, the consultants prepared a new Site-Specific ground motion response spectrum using NGA ground motion attenuations, as required for the new code. The consultants appropriately use the maximum rotated values for the Probabilistic ground motion analysis, and also use the 84th percentile of maximum rotated ground motions for

the Deterministic ground motion analysis. The probabilistic and deterministic MCE spectra appear reasonable, based on comparison with the State-Wide Model (from Peterson and others, 1996, CGS Open-File Report 96-08; updated by Cao and others, 2003). The consultants report the following Site-Specific ground motion values:

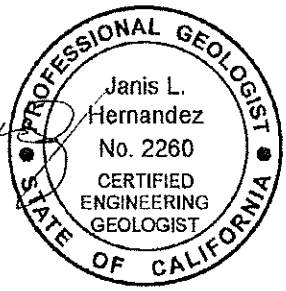
S_{DS} = 0.975g and S_{D1} = 0.607g.

These values appear to be in compliance with the requirements of the 2010 CBC and ASCE 7, and therefore are acceptable for the proposed development.

Based on the additional details provided by the consultants in the referenced update report, the previous review by CGS remains applicable, and the recommendations are appropriate and adequate for the site. In conclusion, ***the engineering geology and seismology issues at this site are adequately assessed in the referenced reports***. If you have any further questions about this review letter, please telephone the California Geological Survey at (213) 239-0893.

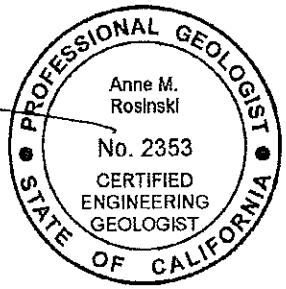
Respectfully submitted,

Janis L. Hernandez
Engineering Geologist
PG 7237, CEG 2260



Concur:

Anne M. Rosinski
Senior Engineering Geologis.
PG 7481, CEG 2353



Copies to:

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Division of State Architect, 1515 Clay Street, Suite 1201, Oakland, CA 94612

Mark Caruso, *Certified Engineering Geologist*, and Peter Connolly, *Registered Geotechnical Engineer*
Ninyo & Moore, 1956 Webster Street, Suite 400, Oakland, CA 94612

Ernest Yamane, *Architect in General Responsible Charge*
Steinberg Architects, 60 Pierce Avenue, San Jose, CA 95110

Mario Rebholz, *Construction Manager*
Parsons Brinckerhoff, c/o Las Positas College, 5020 Franklin Drive, Pleasanton, CA 94588