

Robbie Lyng
Alameda Unified School District
2060 Challenger Drive
Alameda, California 94501

December 4, 2017

RE: Alameda High School Liquefaction Settlement

Robbie,

ZFA has reviewed the report titled "Geotechnical Engineering Investigation Evaluation of Liquefaction Risk and Liquefaction Induced Settlement Potential at Alameda High School Campus" Report by Miller Pacific dated October 24, 2017. This report is for the newer buildings built on the campus only. Separate reports were completed for the Historic Alameda High School in 2014 and the soil around those buildings is being remediated with the current construction project. The site is expected to experience some level of liquefaction during the maximum credible earthquake. This is the earthquake that is expected to occur once every 2475 years on average. The expected total settlement at the school site is expected to be between 1.5-3.0 inches. The total differential settlement is expected to be between 0.75-1.5 inches. While some impact on the buildings could occur, we do not believe it will significantly impact the overall building performance during a large seismic event. Based on current standard of practice, we do not believe additional steps need to be taken at this time for the newer portions of the campus.

Should you have questions, please contact the undersigned.

Regards,



Chris Warner, SE 4613
ZFA STRUCTURAL ENGINEERS
Senior Principal