



April 6, 2016
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Alameda Unified School District
2060 Challenger Drive
Alameda, California 94501

Attention: Mr. Robbie Lyng, Director of Operations and Facilities

Re: Geotechnical Engineering Review
Improvement and Grading Plans
Site Work for New Modular Classroom
Otis Elementary School
3010 Fillmore Street
Alameda, California

Introduction

At your request, we have conducted a geotechnical engineering review of the improvement plans and grading plans for the proposed modular classroom building at Otis Elementary School, located at 3010 Fillmore Street in Alameda. Miller Pacific Engineering Group conducted a geotechnical engineering investigation of the project site, and published a report dated September 10, 2015 which provided recommendations for grading and geotechnical engineering design criteria for the project. An addendum report was prepared by Miller Pacific Engineering Group, dated September 23, 2015.

The purpose of our review of the improvement plans and grading plans is to see that the intent of the recommendations, as outlined in the geotechnical report and addendum report for the project, has been understood and is reflected on the project plans.

Review of Improvement and Grading Plans

The improvement/grading plans (Sheets C0, C1, C2, C3, C4, and C5) for the new modular classroom at Otis Elementary School were prepared by Brelje & Race Consulting Civil Engineers and are dated April 15, 2016.

Sheet C0 (Notes) references the September 10, 2016 geotechnical report and September 23, 2016 addendum geotechnical report for the project.

Sheet C2 (Grading Plan) provides details for grading the proposed building areas.

Sheet C4 (Pavement Layout and Erosion Control) shows construction details for asphalt pavement and concrete flatwork areas. The Class 2 baserock beneath pavement areas and concrete flatwork is shown to be compacted to a minimum relative compaction of 95 percent, as recommended. Details are also provided for the placement of lightweight fill. Mirafi 500X (or equivalent) separation fabric is shown on the prepared subgrade beneath lightweight fill and also over the top of lightweight fill.

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Sheet C5 (Details) provides specifications for compaction of trench backfill (95% relative compaction within 12 inches of ground surface, 90% relative compaction below 12 inches), based on ASTM D1557 standard.

We also reviewed earthwork specifications (Section 31 2000, four pages) for the project.

In our opinion, the grading, pavement, and erosion control details shown on the referenced improvement plans and outlined in the earthwork specifications for the project are in general conformance with the recommendations contained in the referenced geotechnical report and addendum report for the project, and are suitable for the site soil conditions.

We anticipate that our representative will periodically observe portions of the grading operation for the project, including subgrade preparation beneath fill areas, fill placement/compaction, subdrainage construction, utility trench backfill/compaction, and placement/compaction of baserock in asphalt and concrete flatwork areas.

We are pleased to have been of service to you. If you or your other consultants have any questions or comments, please call us at your convenience.

Yours very truly,
MILLER PACIFIC ENGINEERING GROUP



Daniel S. Caldwell
Geotechnical Engineer No. 2006
(Expires 9/30/17)

Cc: Brelje & Race Consulting Civil Engineers