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GRICE ENGINEERING INC

ENGINEERING GEOTECHNICS SEPTIC HYDROLOGY
FOUNDATIONS SOILS EARTH STRUCTURES

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File No. 4298-03.10
October 01, 2018

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Mr. Marc Bordonaro
281 San Benancio Road
Salinas, California 93908

Project: Residence
 257 San Benancio Road
 Salinas, California
 A. P. N. 416-293-003

Subject: Geotechnical Evaluation of Building Envelopes

Dear Mr. Bordonaro;

Pursuant to your request, we have completed our geotechnical evaluation of the two building envelopes present on the above referenced parcel.

Both building envelopes are located to the south of the community drive. The northmost one is larger and of rectangular form however its northern portion is occupied by the drive therefore the available area is roughly equivalent to that of the southern envelope. The southern envelope has the form of a five sided polygon and is stretched slightly to the northeast and southwest.

Trees are located within both envelopes. Those in the northern envelope are clustered towards the center while those in the southern envelope are more dispersed leaving a relatively open central area.

The envelopes are located on a minor ridge descending to the southwest. The side slopes of the ridge are generally steep as common to the area. More trees, brush and grass are located on the northwestern and southwestern slopes due to a slightly shallower grade and higher moisture retention as the slopes face away from the sun's path.

Sub ridges descend to the valley floor to the west and south of the southern building envelope. Below the northern envelope the descending slopes to northwest and southeast sides are more regular with less undulation. This suggests a more resistant subsoil along the southern and southwestern sides.

The lithology of the ridge is defined by the development of capstone as evidenced in the geotechnical exploration and visually noted along the crown of the ridge. Weathering of the capstone gives the transition at the crown an abrupt character along the eastern and portions of the southern faces. A small portion of the capstone is exposed midway on the northwestern slope.

The presence and exposure of capstone in the area is typical and indicates minerals are liberated during weathering. When sufficient amounts accumulate a natural cement is formed. This results in a more weatherable horizon which over long periods of time inflicts the terrain with sharp changes in slope.

The width of the ridge is generally broader in the south therefore the northern envelope apparently provides less building area. This would increase the necessity of locating a structure closer to the southeastern slope with a potential for increased influence of the steeper southeastern slope making the northern building envelope unfeasible for development.

In my opinion the combined characteristics of the envelopes suggests that the southern envelope will provide for a more stable development and with less concern of slope erosion and effects from other site characteristics.

This report and the recommendations herein are made expressly for the above referenced project and may not be utilized for any other site without written permission of GRICE ENGINEERING, INC.

Please feel free to call this office should you have any questions regarding this report.

Very truly yours,
GRICE ENGINEERING, INC.



Lawrence E. Grice, P.E.
R.C.E. 66857



2 April 2019

Mr. Marc Bordonaro
281 San Benancio Road
Salinas, CA 93908

Project: Site Development – Lands of Bordonaro
257 San Benancio Road, Salinas, CA
APN 416-293-003

Subject: Building Envelope – Site Evaluation

Reference(s):

1. Geotechnical Evaluation of Building Envelope Letter prepared by Grice Engineering, Inc., File No. 4298-03.10, dated October 01, 2018
2. Grading, Drainage & Erosion Control Plans, Sheets C1-C8 of 8, Job No. 1780-01, prepared by LandSet Engineers, latest revised 1/25/19

Attention: Mr. Aaron Tollefson, AST Design Group

Dear Mr. Bordonaro:

Per our site reconnaissance prior to design, we have evaluated the two designated building envelope locations for development based on the considerations as set forth in the Geotechnical Report and the Architectural Site Plans.

We are in agreement with the findings therein per the Geotechnical Evaluation (Reference 1) that “the southern envelope will provide for a more stable development and with less concern of slope erosion and effects from other site characteristics”.

Furthermore, in regards to foundation setbacks from slopes as described per Chapter 18 of the 2016 California Building Code, the setback distance equals $(H/3)$ where H is the total height, but not to exceed 40 feet maximum. For this particular case (sidehill development) due to the physical features of the site, it will be 40’ on both the upper and lower sides. The southern envelope when subjected to this constraint, provides a central, more favorable and suitable location for development and utilizes more effectively areas that have slope gradients under 25%.

If you have any questions or further clarification is required, please do not hesitate to contact the undersigned.

Respectfully Submitted,
LandSet Engineers, Inc.

Guy R. Giraudo, P.E., P.L.S.
R.C.E. 56569, LS 8703



Dist: Addressee (2)
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