



February 15, 2021
ES-6947.04

Earth Solutions NW LLC

Geotechnical Engineering, Construction
Observation/Testing and Environmental Services

RKK Villa Marbella, LLC
7330 West Mercer Way
Mercer Island, Washington 98040

Attention: Mr. Mason Helms

**Subject: Second Response to Comments
Proposed Marbella Residence
7311 West Mercer Way
Mercer Island, Washington**

Reference: Earth Solutions NW, LLC
Geotechnical Engineering Study
Project No. ES-6947.01, dated November 14, 2019

City of Mercer Island, Washington
Geotechnical Peer Review Comment, dated February 2, 2021

Dear Mr. Helms:

At the request of RKK Villa Marbella, LLC, Earth Solutions NW, LLC (ESNW) has prepared this response to comments letter for the proposed project.

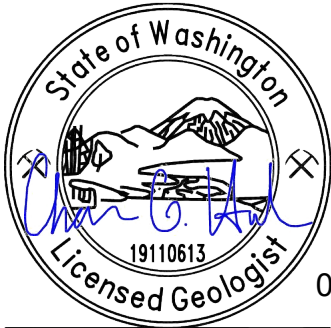
City Comment – Geotechnical engineer to provide recommendations for footings located on or adjacent to steep slopes. Recommendations to include minimum embedment of footings with detail showing footing and slope for clarification and allowable soil bearing pressure given the presence of steep slope. Design recommendations should be included in a letter report format as an addendum to the original geotechnical report.

ESNW Response – In our opinion, foundations near sloping areas should maintain a 10-foot setback from the slope face. This can be achieved by either constructing foundations 10 feet from the top of slope or advancing the foundation sufficiently to maintain a 10-foot horizontal setback between the foundation and slope face. Please see the attached Plate 1 (Foundations Adjacent to Slopes) for a depiction of these recommendations. Provided that competent native soils are encountered at subgrade elevations, the recommended allowable soil bearing capacity of 2,500 psf is considered valid for long-term design of foundation elements. Based on our test pit exploration, we anticipate glacial till to be prevalent throughout the area; as such, we do not anticipate adverse impacts to the slope during foundation preparation activities. ESNW should be retained at the time of construction and foundation preparation to observe field conditions and provide additional recommendations, if necessary.

We trust this letter meets your current needs. Should you have any questions regarding the content herein, or require additional information, please call.

Sincerely,

EARTH SOLUTIONS NW, LLC



02/15/2021

Chase G. Halsen

Chase G. Halsen, L.G.
Project Geologist

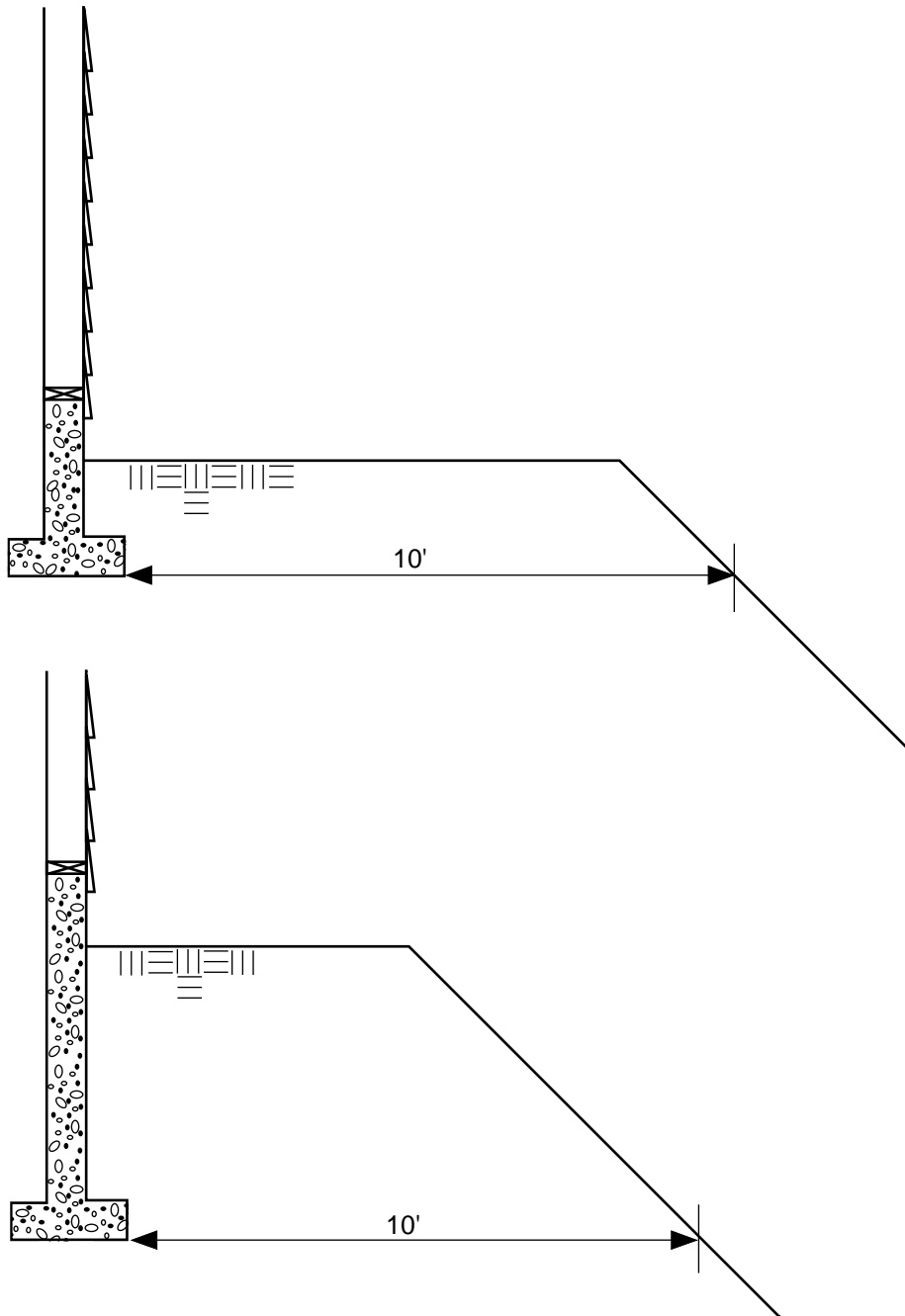


02/15/2021

Keven D. Hoffmann, P.E.
Senior Project Manager

Attachment: Plate 1 – Foundations Adjacent To Slopes

cc: RFA Architects
Attention: Mr. Richard Fisher (Email only)




Earth Solutions NW_{LLC}
 Geotechnical Engineering, Construction
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**Foundations Adjacent To Slopes
 Marbella Residence
 Mercer Island, Washington**

Drwn. MRS	Date 01/11/2021	Proj. No. 6947.04
Checked CGH	Date Jan. 2021	Plate 1