

February 5, 2025

JN 23326

Gina and Tim O'Neill
8030 Southeast 20th Street
Mercer Island, Washington 98040
via email: gina.oneill@comcast.net

Subject: **Review of Plans**
Proposed Outdoor Living Spaces and Deck Expansion
8030 Southeast 20th Street
Mercer Island, Washington

Reference: *Geotechnical Engineering Study and Critical Area Study*, same project and site;
Geotech Consultants, Inc.; November 18, 2024.

Greetings,

As requested, we have reviewed the geotechnical aspects of the structural plans for the proposed improvements. For our review, we were provided with the structural plans prepared by Longitude One Twenty dated 02-05-2025.

As recommended, the improvements to the west and north of the existing pool deck will be supported on driven pipe piles, with helical anchors to provide lateral stability of the new columns on the sloping ground west of the existing pool deck. Conventional foundations bearing on competent, glacially compressed soil will support the improvements north of the existing garage.

The geotechnical design parameters assumed for the new western driveway retaining wall (allowable bearing capacity, active and passive earth pressures, and coefficient of base friction) that are summarized in FOUNDATION on sheet S-1 conform to our recommendations.

In order to satisfy City of Mercer Island requirements, we provide the following "Statement of Risk":

Construction practices are proposed for the alteration that would render the development as safe as if it were not located in a geologically hazardous area and do not adversely impact adjacent properties.

Please contact us if there are any questions regarding this letter.

Respectfully submitted,

GEOTECH CONSULTANTS, INC.

Marc R. McGinnis, P.E.
Principal



2/5/2025

cc: **Sturman Architects** – Brad Sturman and John Magcawas
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