

# TERRANE

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April 11, 2023

To

Molly McGuire – Planner, City of Mercer Island

Ryan Harriman – Planning Manager, City of Mercer Island

Jeff Thomas – Community and Planning Director, City of Mercer Island

For the Project

Strand RESIDENCE – 2207-019

6950 MAKER ST

MERCER ISLAND, WA 98040

Molly, Ryan and Jeff,

I am writing in regard to the Original Grade for the Strand Residence at 6950 Maker St. I have examined the topographic surveys for neighboring properties by DR Strong Consulting Engineers Inc. and M.W. Marshall, Professional Land Surveyor. Both surveys use a datum that predates the current standard North American Vertical Datum of 1988 (NAVD88) that I used for my survey of the site.

The datum used by both neighboring surveys appears to be Mean Sea Level based on the National Geodetic Vertical Datum of 1929 (NGVD29). Based on points in common with the Marshall Survey the adjustment is 3.5' with the Marshall Survey being lower. This closely matches the datum difference as calculated using the NOAA Online Vertical Datum Transformation tool which reports the difference as 3.547' at this location. Applying this adjustment to the neighboring surveys appears to closely match features common on the surveys.

Using the neighboring surveys alone would be problematic because of the extended distance for interpolating contours. Given that County Records indicate the existing residence was built in 1952, (prior to incorporation of the City of Mercer Island), it is my professional opinion that existing grade as shown on my Survey (Terrane Job Number 21007, dated 05/27/2021, revised 11/8/22) is the best evidence for the Original Grade of the site.

Thank you,

*Jacob B Miller*

Jacob Goodman Miller, PLS  
Senior Project Surveyor  
Terrane Inc.

