

December 17, 2022

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Subject: **Proposed Landscape Retaining Walls**
412 Island Aire Drive
Woodland, WA 98674



Strata Design, LLC (STRATA) recently completed a geotechnical site evaluation for the above-referenced project. At that time (October 2022), the 4-tier, segmental block, retaining wall project was approximately 75 percent complete before being issued a stop-work order due to a lack of appropriate permits.

STRATA believes that the project will aid with stabilizing the now unsupported slope along the shoreline of Horseshoe Lake (see Photo 1, attached). We believe the improvements as planned will help prevent future sloughing and erosion along the shoreline slope. They will also help laterally secure the current CMU block wall the rests within the ordinary high water level of the Lake. The CMU wall is slowly deforming (tilting or buckling) under the lateral load of the slope.

As the wall is constructed, it has removed the loose, organic debris and other foreign matter that has historically been placed over the original slope grade. We recommend the remaining woody debris also be removed when the wall continues to completion.

As alluded to in our previous letter (October 18, 2022), we believe the project also provides an opportunity to install vegetation along the slope. This will promote slope stabilization, erosion protection, and offer improved habitat along the shoreline.

STRATA recommends that we be retained to provide occasional site inspections during the construction based on the geotechnical recommendations and design criteria provided. Please contact our office should you have questions or comments on these findings and conclusions.

Direction of Photograph:

Description: abundance of loose soil and woody debris in existing slope face



Project: 22-0807

October 2022



RETAINING WALL CONSTRUCTION
412 ISLAND AIRE DRIVE
WOODLAND, WA