Geotechnical engineer to review design drawings and provide in a letter format that the drawings were reviewed and were found to be in accordance with their geotechnical recommendations or provide recommendations for design revisions. In said letter include risk statement in accordance with MICC 19.07.160.

Author: Marc McGinnis (marcm@geotechnw.com) Date: 5/4/2021 9:56:43 AM We were provided with the revised set of architectural (Brandt Design Group), civil (LPD Engineering), and structural (SSF Engineers) plans dated 4/30/2021 for review of the geotechnical aspects of the design.

The minimum embedments of 10 feet and 6 feet into the hard silt for Piers D1 and D2, as indicated on the revised sheet S2.2 dated 4/30/2021 conform to our recommendations.

The extent of the stabilization piles has been clearly delineated on revised sheet SH2.1 date 4/30/2021. This includes piles P29-P44. The minimum embedment of the piles to 28 feet below elevation 89 conforms with our recommendations.

The soldier piles, stabilization piles, and drilled piles have a maximum design compressive capacity of 35 kips. With the minimum pile embedments indicated on the structural plans, all of the piles will achieve a minimum embedment of 10 feet into the glacially-compressed silt, which will provide an allowable compressive capacity of over 50 kips just from skin friction on the embedded portion of the piles.

As required by Mercer Island Code, we provide the following "statement of risk" following our review of the revised plans:

It is our professional opinion that the recommendations presented in our report, and included in the revised plans dated 4/30/2021 for the planned alteration will render the development as safe as if it were not located in a geologically hazardous area, and will not adversely impact critical areas on adjacent properties.