

December 10, 2013

Lewis Homes
Attn: Eric Householder
3500 Moose Hollow Drive
Eden, UT 84092

GeoStrata Project No. 924-001

**RE: Addendum to Geotechnical Investigation for the Ridge Development
Eden, Utah**

Mr. Householder:

GeoStrata recently completed a geotechnical investigation with results presented in a report dated December 3, 2013. Following your review of the report we understand that your engineer requires additional geotechnical information. We understand that the traffic load used in our pavement design is adequate for the collector road into the development, but is likely conservative for parking areas and non-collector roads. We understand that it is desired to have a second pavement section for parking areas and non-collector drives. In addition we understand that recommendations for cut and fill slopes are required.

For our analysis for pavements in parking areas and non-collector drives we assumed vehicle traffic will consist of 100 passenger car trips and 2 light trucks. Based on these assumptions and a 20 year design life our analysis indicates 53,000 ESAL's for the traffic over the life of the pavement. Using this value we recommend a pavement section consisting of 3 inches of asphalt over 13 inches of untreated base course. As an alternative, an equivalent pavement section of 3 inches of asphalt over 6 inches of untreated base course and 8 inches of granular borrow may be used.

Based on the soil condition encountered during our geotechnical investigation we recommend cut and fill slopes of 2.5 to 1 and 3 to 1 (horizontal to vertical), respectively, or flatter. It should be understood that where shallow groundwater is encountered, some shallow failures may occur with cut and fill slopes. Repairs and groundwater mitigation measures, such as the installation land drains, may be required.

This letter should be considered as an addendum to the Geotechnical Investigation for the Ridge Development and is subject to the Limitations presented in the report presented by GeoStrata. The recommendations presented above were based on the subsurface conditions and laboratory testing completed for the geotechnical investigation. All work was completed in accordance with the current standard of care, no warranty expressed or implied is provided.

We appreciate the opportunity to provide these services. Please contact us if you have questions regarding the information provided in this letter.

Respectfully,
GeoStrata



Mark I. Christensen, P.E. 039
Senior Geotechnical Engineer

