

Earthtec Engineering, Inc.

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February 1, 2008

Mr. Aaron Rigby
Meridian Engineering
9217 South Redwood Road
West Jordan, Utah 84088

**Re: Embankment Settlement
Beesley Farms
1600 West 13200 South
Riverton, Utah
Job No. 072713**

Dear Mr. Rigby:

This letter addresses settlement of the proposed road embankment for the project site referenced above. Earthtec previously completed a geotechnical study of the site and provided recommendations in a report¹.

Based upon a grading plan provided to our office, up to 8 feet of fill will be placed beneath the proposed cul-de-sac. This depth of fill will induce consolidation in the underlying native soils and settlement will also occur within the fill itself. Using the consolidation test data from the geotechnical study we estimate that 1 to 1½ inches of settlement will occur beneath the road. We recommend that the fill be placed at least three weeks in advance of utility placement and the placement of concrete flatwork and asphalt to allow settlement to occur prior to construction.

The fill should be composed of structural fill as defined in our report, or of appropriate fill material defined by the city or UDOT. The fill should be placed in loose lifts not exceeding the thicknesses recommended in our report according to the compaction equipment that will be used, and each lift of structural fill placed should be properly moisture conditioned to within $\pm 2\%$ of the optimum moisture content, and compacted to at least 98% of the maximum dry density as determined by ASTM D-1557. Every precaution should be taken to reduce the potential for freezing to occur in the underlying native soils, or in subsequent lifts during construction of the embankment.

If schedules will not allow embankment construction and time for pre-settlement, we suggest that the embankment be constructed at least 1½ inches higher, however, settlement is unlikely to proceed uniformly, and cracking of concrete flatwork and asphalt could still occur, as well as problems with settlement of utilities. It is important to note and also consider that placing more than 5 feet of fill will likely cause more than ½ inch of settlement to occur, so it would be prudent to place fill and allow settlement to occur prior to constructing the homes on this site.

¹ Geotechnical Study, Beesley Farms, 1600 West 13200 South, Riverton, Utah, Job No. 072713, October 26, 2007.

Earthtec

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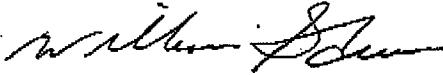
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General Conditions

The information presented in this letter is considered an addendum to our original report and is subject to the same limitations and exclusions presented therein.

We appreciate the opportunity of providing our services on this project. If we can answer questions or be of further service, please contact us at (801) 225-5711.

Respectfully;

EARTHTEC ENGINEERING, INC.
Jeffrey J. Egbert, P.E.
Project Geotechnical Engineer
William G. Turner, P.E.
Senior Geotechnical Engineer

Earthtec

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