



Consulting Engineers & Scientists

February 21, 2006

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Attn: Geri Gray

**RE: Geotechnical Engineering Report
Phase I Residential Development at the Pines Golf Course
North of Cortaro Road and West of Interstate 10
Marana, Arizona
Terracon Project No. 630⁴55225, Addendum 6**

Terracon provided alternative recommendations for earthwork and foundation construction in Addendum No. 3 to our geotechnical report for this project (Terracon Project No. 63055225, Addendum No. 3, dated July 21, 2005). These recommendations applied to the following lots at this subdivision:

Lot 1	Lot 16	Lot 73
Lot 2	Lot 17	Lot 74
Lot 3	Lot 18	Lot 75
Lot 4	Lot 19	Lot 76
Lot 5	Lot 70	Lot 77
Lot 6	Lot 71	Lot 78
Lot 15	Lot 72	Lot 115

Of the recommendations provided, one of the options recommended building pads constructed on a minimum of four feet of engineered fill and assumed a potential differential settlement of 3 inches for structures.

Another recommendation provided the option of geogrid placed within every foot lift of compacted engineered fill. This would be a total of four layers of geogrid within the four feet of compacted fill. This option assumed a potential differential settlement of 1 inch for structures.

We have been requested to evaluate potential differential settlements if a geogrid option was chosen and fewer layers of geogrid were used. At this time, four feet of compacted engineered fill exists from finished pad elevation at these lots. We estimate the following potential differential settlements given the thicknesses of the geogrid/fill mats.

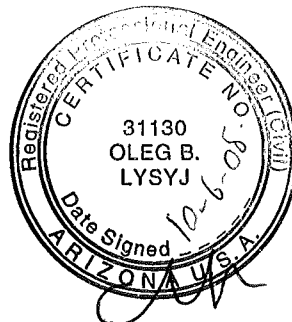
Amount of Geogrid	Estimated Differential Settlement (in)
2 Layers of Geogrid Within 2 feet of Compacted Fill	1 - 3/4
3 Layers of Geogrid Within 3 feet of Compacted Fill	1 - 3/8

If this alternative is chosen, we recommend sheets of Tensar BX1200 geogrid (or equivalent) be used. Underground utilities located below the foundations will need to penetrate through the layers of geogrid. This will create difficult excavation conditions for utility contractors. In areas that geogrid is cut for utility trenches, pieces of geogrid must be replaced during backfilling (overlapped and tied-in to the existing geogrid) according to the manufacturer's recommendations.

Please let us know if you have any other questions concerning this addendum.

Sincerely,

TERRACON



Expires 03/31/2009

Oleg B. Lysyj, P.E.
Geotechnical Services Manager

Copies: (3) Addressee
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