

**To:** B&H Companies  
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**Date:** November 7, 2023

**Subject:** Additional Earthwork Recommendations  
Addendum 1 to Geotex (D&S) Report No. G22-2111  
20-Acre Single Family Development  
Sherman, Texas

Mr. Hefton:

As discussed, this addendum provides additional earthwork recommendations to limit post construction movements to about 1.5 inches. We understand that the final preferred PVM after earthwork is on the order of 4 inches. Since the PVM/PVR at the time of the field investigation was lower than the desired PVM, no overexcavation and moisture conditioning is required; however, the subgrade should be prepared as presented below. This addendum should be read in conjunction with the original geotechnical report #G22-2111 dated May 31, 2022.

### **7.2a Earthwork Preparation for Soil-Supported Elements**

- Strip the site of all vegetation, organic soils, and deleterious material including tree roots, root balls and matted roots within the new building area. Typically, 6 to 12 inches are sufficient for this purpose.
- After stripping and performing any necessary grade cuts, to establish uniform workable subgrade, the exposed subgrade should be scarified and recompact to a depth of 12 inches. The scarified and reworked soils should be compacted to at least 95 percent of the maximum dry density, as determined by ASTM D698 (standard Proctor), and placed at a moisture content that is at least two (2) percentage points above the optimum moisture content ( $\geq +2\%$ ), as determined by the same test.
- Additionally, prior to placement of any grade-raise fill, scarify, rework, and recompact the exposed stripped subgrade to a depth of 12 inches. The scarified and reworked soils should be compacted to at least 95 percent of the maximum dry density, as determined by ASTM D698 (standard Proctor), and placed at a moisture content that is at least two (2) percentage points above the optimum moisture content ( $\geq +2\%$ ), as determined by the same test.
- Within 24 hours of recompacting the reworked excavated exposed subgrade, begin fill operations with debris-free on-site or imported soil. The fill soil should be spread across the building pad in a uniform thickness atop the scarified and recompact layer. The fill soil should be placed in maximum 8-inch compacted lifts, be compacted to at least 95 percent of the maximum dry density as determined by ASTM D698

(standard Proctor) and be placed at a moisture content that is at least two (2) percentage points above the optimum moisture content ( $\geq +2\%$ ), as determined by the same test.

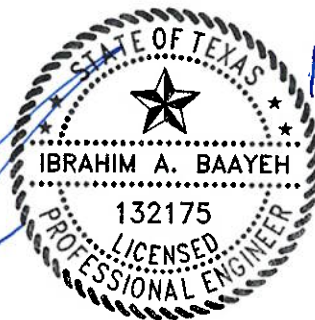
- Water should not be allowed to pond on the prepared subgrade either during fill placement, or after reaching final subgrade elevation. To that end, and to the greatest degree possible, the subgrade surfaces should be shaped to shed water to the edges of the respective work areas.
- Place a minimum 15-mil thick vapor barrier beneath all floor slabs (Stego or approved equivalent). All seams and penetrations through the barrier should be sealed in accordance with the manufacturer's requirements.
- Each lift of fill placed should be tested for moisture content and degree of compaction by a testing laboratory at the rate of one (1) test per lift per 3,000 square feet of fill area, with a minimum of two (2) test performed per lift within each building pad, one (1) test per lift per 100 linear feet in sidewalk areas, one (1) test per lift per 100 linear feet of grade beam and/or footing perimeter backfill, and one (1) test per lift per 100 linear feet of utility trench backfill. Geotex would be pleased to provide these services in support of this project.

### Closing

We trust that these recommendations will be adequate for your needs at this time. Please do not hesitate to call this office should you have any questions or concerns or need for additional geotechnical engineering services.

Sincerely,

**Geotex Engineering, LLC**



11-7-2023

Ibrahim A. Baayeh, P.E.  
Director of Geotechnical Engineering