Hills of Cedar Creek 2022

Preliminary Soils Report

The proposed subdivision consists of a 18.0 acre site located west of Eastern Hills Drive, between the portion of Ballard Circle constructed as part of a previous phase and Ardmore Drive, which is currently under construction. The natural topography of the site slopes substantially (10% on average) from the northeast in a southwesterly direction with hills and ridges. Development of the subdivision will consist of overlot grading to reduce the rolling topography.

The soils encountered on site in test borings consisted of man-placed fill, colluvium, and Peoria loess. Generally firm and stable soils were encountered throughout the site. Ground water was determined to have little impact on the proposed improvements in this area. Any rubble and waste materials from the site clearing will be removed from the site and properly disposed or recycled. The majority of the excavated site soil will generally be suitable for reuse as structural fill, with moisture conditioning used as needed.

All fills should be placed and compacted as structural fills, in thin lifts. The upper 12 inches of subgrade below proposed pavement should be compacted to a minimum of 95 percent of the maximum dry density at a moisture content between -3 and +4 percent of optimum (Standard Proctor). All subgrade preparation should extend a minimum of 2 feet laterally beyond the edge of pavement.

The roadway profiles will be designed to balance the earthwork haul-off/import due to the steep topography of the site. Profile grades will be designed with a minimum of 0.5% slope.

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