



**GREENBAUM ASSOCIATES, INC.**  
**GEOTECHNICAL & MATERIALS ENGINEERS**

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April 25, 2021

Mr. David Garrett  
Sunshine Builders, LLC  
2703 Sparrows Point Place  
Louisville, KY 40245

**Re: Slope Survey**  
**Garrett Bridwell Subdivision**  
**Old Heady Road**  
**Louisville, Kentucky**  
**Project Number 21-089E**

Dear Mr. Garrett:

On April 22, 2021, Mr. Luke Van Nevel, EIT, walked the above referenced property and viewed several slopes with a greater than 20-degree inclination. Included is a drawing showing the approximate locations of the slopes (indicated by yellow shading) as well as a drawing showing the geologic mapping taken from the Kentucky Geological Survey. Most of the slopes located along the small tributary running northwest to southeast, just northeast of Saddle Bend Way. Also included are photos of several of the slopes taken during a walkover of the site. During the walkover, no evidence was found of slope movement, i.e., no visual indication of landslide such as bulges or tension cracks indicative of a scarp.

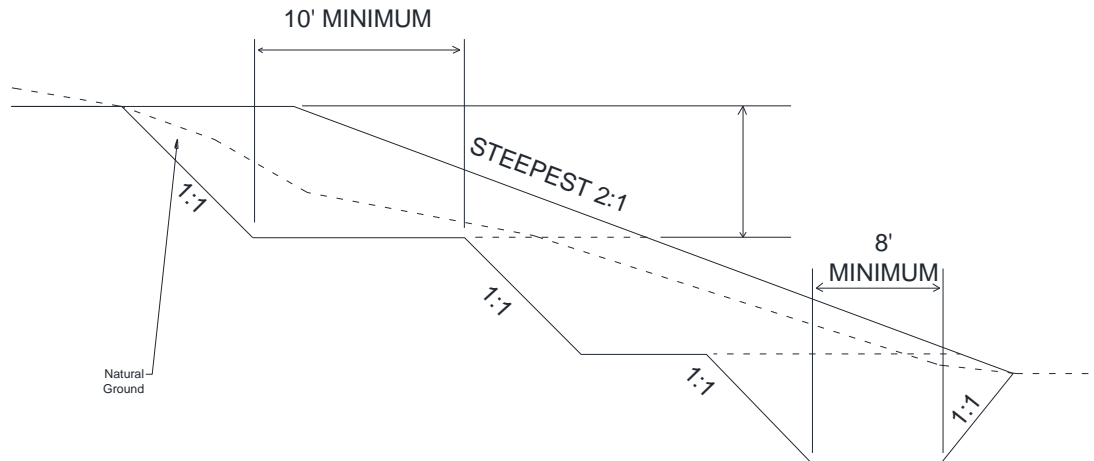
This site is shown by the Kentucky Geological Survey to be underlain by the Drake's Formation. The Geological Survey describes the Drakes Formation as:

Grayish green dolomite or limy silty mudstone and lesser amounts of argillaceous, fine-grained dolomite or dolomitic limestone. Megafossils absent or sparse in mudstone, some dolomite beds contain abundant poorly preserved bryozoans or brachiopods. Mudstone contains ripplemarks and mudcracks. 135 ft thick at type section. Divided into Rowland and overlying Preachersville Members. Conformably overlies Ashlock Formation; disconformably overlain by Brassfield Dolomite. Assigned to Late Ordovician. Approximately same rocks called the Waynesville limestone and overlying Liberty and Whitewater formations.

The topography of this property is rolling, resulting in substantial cuts and fills. When fill is to be placed on an existing slope it is imperative that the existing slope be benched as shown in the diagram below to prevent the formation of a plane of weakness along which a slope failure can develop. Benching will have to be adjusted as necessary, in consultation

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with this office, where limestone bedrock is encountered that prevents benching as shown from being achieved



Soil fill must be no steeper than 2 horizontal to 1 vertical in order that it remain stable. Where there is a sharp angle in the slope, such as near the corner of a building or pavement corner, the slope must be no steeper than 2.5 to 1. If the slope is to be mowed with normal lawncare equipment, it should be no steeper than 3 to 1. This survey is intended to address existing slopes at this site. This is not a geotechnical investigation and does not include any boring, laboratory testing nor modeling of slope stability to determine factor of safety against sliding.

If you have any questions regarding this study, please call.

Sincerely,

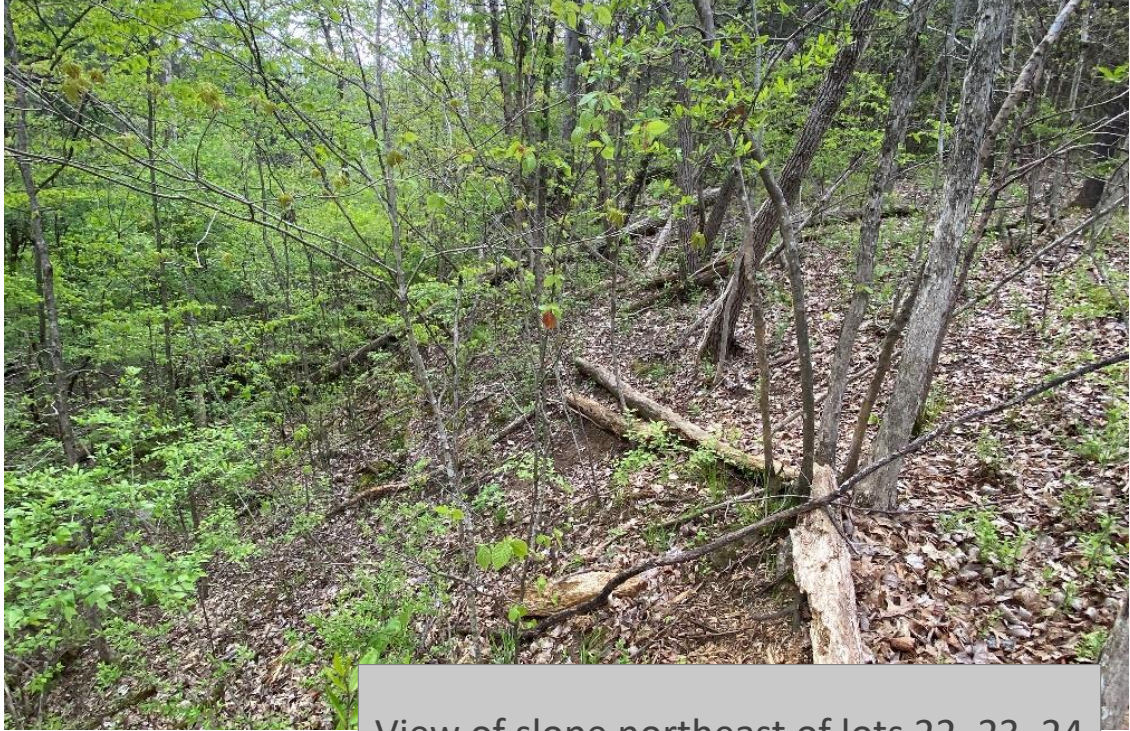
**GREENBAUM ASSOCIATES, INC.**

*Luke Van Nevel*

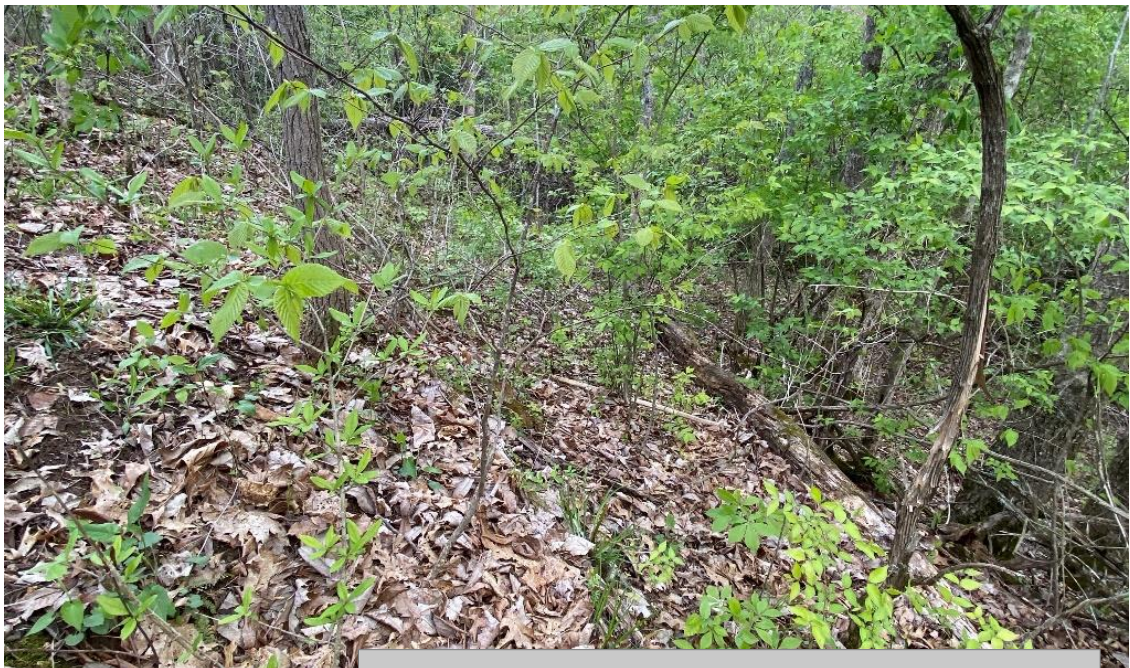
Luke Van Nevel, E.I.T.  
Engineer-in-Training

*Sandor R. Greenbaum*

Sandor R. Greenbaum, P. E.  
Principal Engineer



View of slope northeast of lots 22, 23, 24



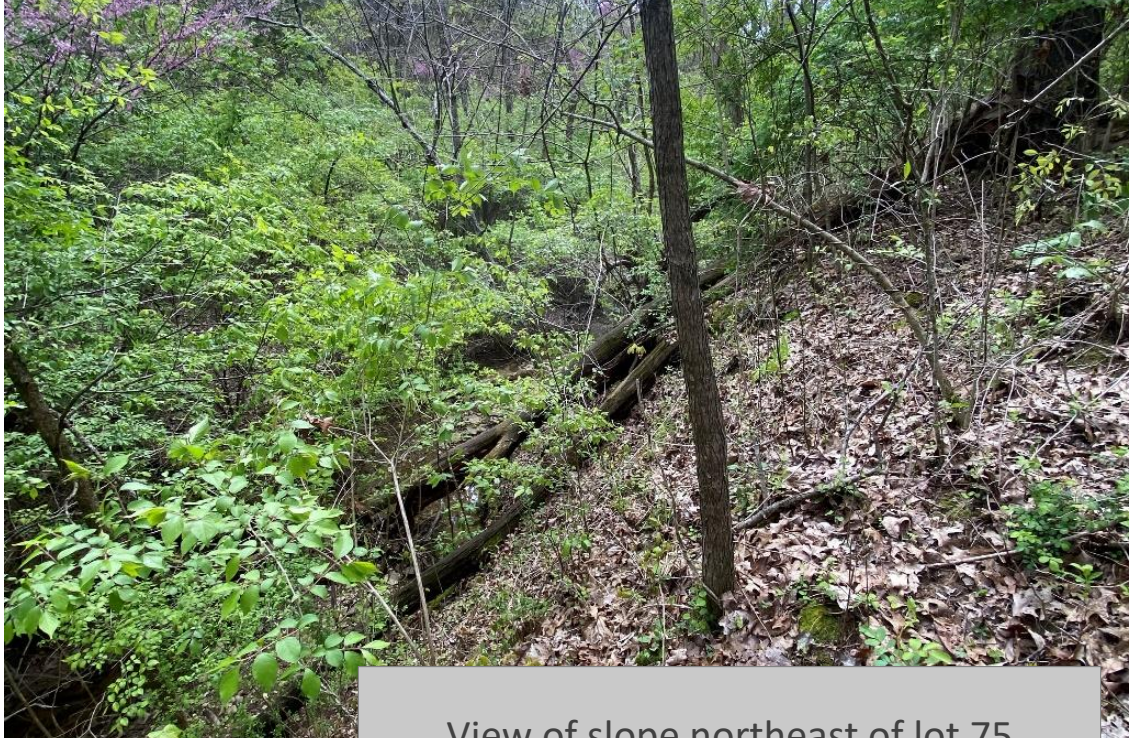
View of slope northeast of lot 24



View of slope between lots 26 and 27



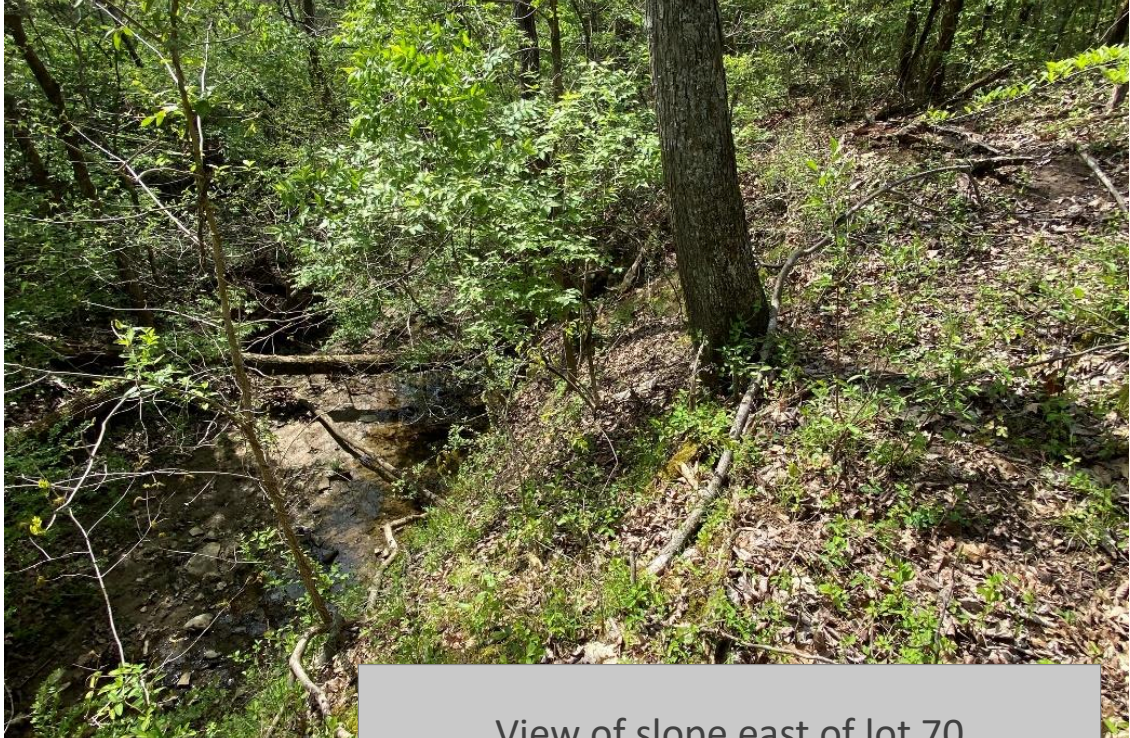
View of slope between lots 26 and 74



View of slope northeast of lot 75



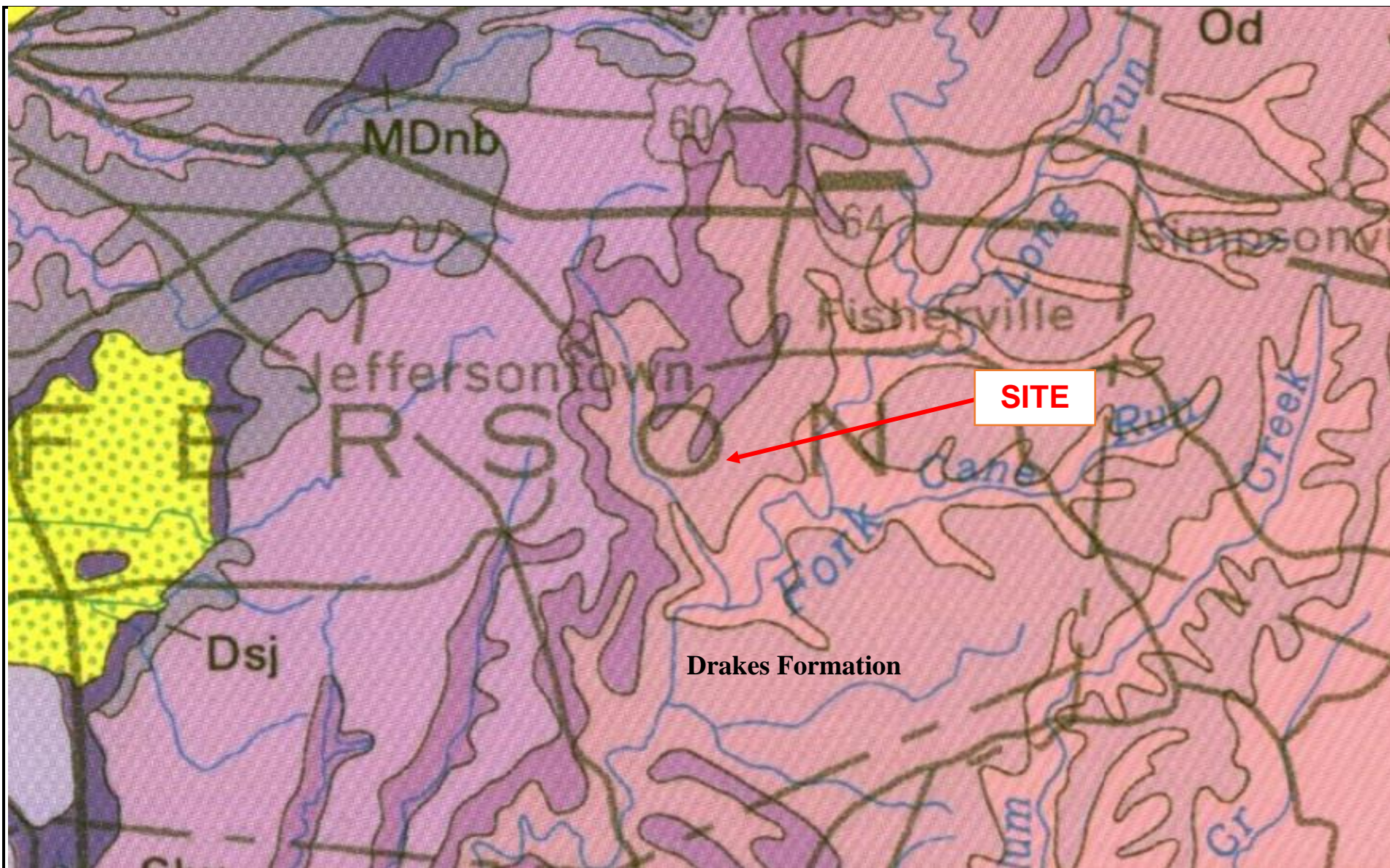
View of slope between lot 83 and 71



View of slope east of lot 70



View of slope in clearing under power lines



**Sunshine Builders, LLC**



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**Site Geology**

Garrett Bridwell Subdivision  
Old Heady Road, Louisville, Kentucky  
Greenbaum Project Number: 20-089E

