



June 7, 2024

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Reference: Engineering Services
139 Clearview Court
Sanford, NC 27332
TE&D Project No.: 2401-020500

To Whom It May Concern:

As requested by the client, a representative of Tyndall Engineering & Design, PA (TE&D) was on-site to observe perform preliminary visual observations of the existing retaining wall. We observed the segmental retaining wall (MSE) was at heights up to 4'-8" tall. Based on hand auger borings along the bottom of the wall, the retaining wall appeared to be supported by a minimum 8" thick stone leveling pad/footing. The in-situ soils at the bottom of the stone leveling pad/footing were qualitatively probed and subjected to Static Cone Penetrometer (SCP) testing. The soils were noted as being adequate to support the anticipated loading conditions (2000 psf).

At the top of the wall, the retained soil was covered by a concrete slab/patio. As a result, TE&D was unable to inspect the retained soil and associated geogrid installation; however, TE&D was provided (by the client) with a field report signed by Jack Cowser, P.E. of ECS Southeast, LLP where soil bearing capacity testing was performed at the top of the wall and was noted as being adequate. We also understand, per emails from the client, that the geogrid was installed in lengths of 6'-0" at every other course.

In conclusion, based on our limited visual observations, the existing retaining wall is adequate to support the anticipated loading conditions; however, we recommend the following enhancements be made for long term stability of the wall:

- While we observed a 4" drain at the bottom of the right side of the wall, we did not observe any other drains, specifically at the left section of the retaining wall (locations based on facing the backyard from the front). We typically recommend 4" diameter drains be installed at 50'-0" o.c. along the bottom of the wall, above final grade. Drains may have been previously installed and covered during final grading. We recommend the drains be uncovered or extended to daylight.

In the case that the drains were not be installed, we recommend installing new 2" diameter drains at the bottom of the retaining wall. New drains are to be installed just above the existing grade and at a maximum spacing of 10'-0" o.c.

We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely,
Tyndall Engineering & Design

Tripp Amos
PT III | 2401-020500



Prentice Tyndall Jr., P.E.



Retaining wall inspected and wall drains to be installed