

## Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110
Wake Forest, NC 27587
919-569-6704

March 8, 2023 Job # 1580-D

Warren Mitchell

RE: Site plan review for Morgan Ridge Phase CD's.

Dear Mr. Mitchell:

Central Carolina Soil Consulting, PLLC has reviewed the proposed construction drawings for Morgan Ridge phase 2 (Chatham County) in regards to potential impacts to proposed subsurface wastewater systems. The initial soils mapping for the site was completed in January 2018 with septic system layouts in 2019 to establish off-site septic easements.

The current construction drawings showed a possible impact the septic areas for lots 2A, 3, 4 and 6 due to a 20 drainage easement for a 24" RCP. The attached map illustrates the CD's with the septic layouts for the above mentioned lots. The revised septic layouts on lots 2A, 3, 4 & 6 will all support either a 3 to 4-bedroom on lots with Accepted Status pressure manifold systems.

No other site improvements that I see should impact the proposed septic systems (off-site areas) for the lots in Phase 2 Morgan Ridge. Please note that some lot lines may need to be revised before final plat configuration due to septic layouts on lots not previously completed by CCSC. For example the lot lines between 23 and 24 may need to be revised so the initial septic system on lot 24 isn't a subsurface drip system to save money on septic installation. Also, the supply line corridors with multiple supply lines in the same trench will have to follow the standards set IWWS-2016 (Innovative Wastewater Approval) for off-site septic easements.

During the site construction process of a property, it is important not to impact any suitable soil areas with such activities as excavating or filling. Only the actual roadways and required drainage ditches and/or sediment basins should be constructed during this process. If the contractor requires a staging area to place fill from the construction process, then areas of unsuitable soils on the property should be utilized

as long as they are not state/county buffers, jurisdictional wetlands or other areas protected by local zoning regulations. If this is not possible, then the disturbed areas should be minimized as much as possible. The same precautions should be taken when the individual lots are cleared for home sites. Only the vegetation should be removed in the areas of the proposed drain fields on lots to prevent any disturbance of the naturally occurring soil. A lot with adequate areas of suitable soils can be deemed unsuitable due to poor planning or site disturbance. Central Carolina Soil Consulting recommends that all lot clearing activities are delayed until a permit is issued by the local health department, with the exception of clearing thick vegetation to access the lot.

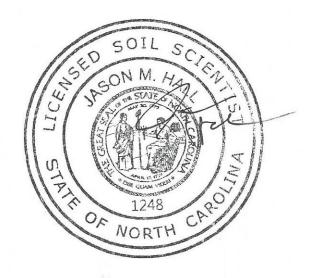
If you have any questions regarding the findings on the attached map or in this report, please feel free contact me at anytime. Thank you allowing Central Carolina Soil Consulting to perform this site evaluation for you.

Sincerely,

Jason Hall

NC Licensed Soil Scientist #1248

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Encl: Soil Map

