



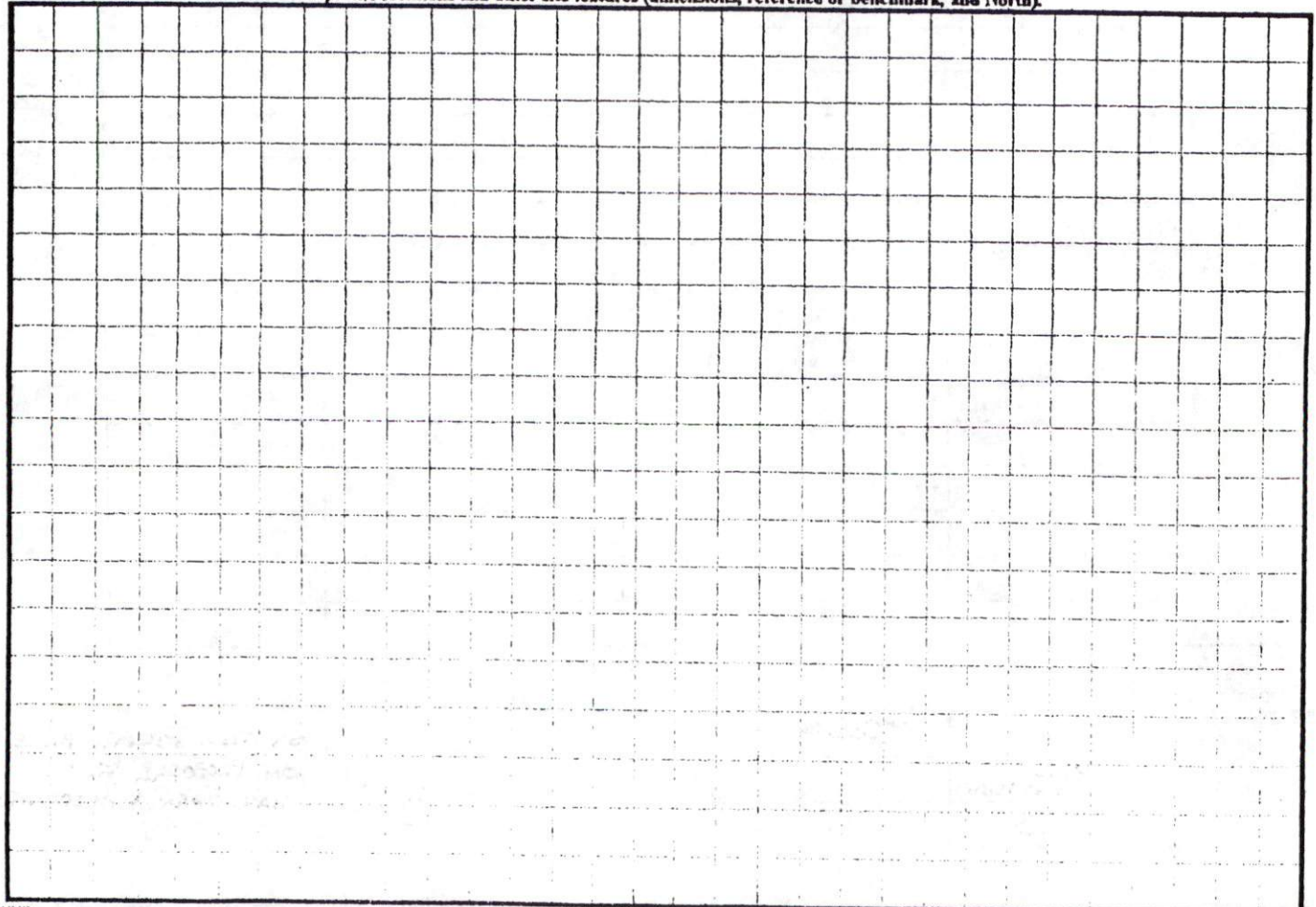
COMMENTS: \_\_\_\_\_  
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<u>LANDSCAPE POSITIONS</u>	<u>GROUP</u>	<u>TEXTURES</u>	<u>.1955 LTAR</u>	<u>CONSISTENCE MOIST</u>	<u>WET</u>
R-RIDGE	I	S-SAND	1.2 - 0.8	VFR-VERY FRIABLE	NS-NON-STICKY
S-SHOULDER SLOPE		LS-LOAMY SAND			
L-LINEAR SLOPE	II	SL-SANDY LOAM	0.8 - 0.6	FR-FRIABLE	SS-SLIGHTLY STICKY
FS-FOOT SLOPE		L-LOAM			
N-NOSE SLOPE	III	SI-SILT-	0.6 - 0.3	FI-FIRM	S-STICKY
H-HEAD SLOPE		SIL-SILT LOAM			
CC-CONCLAVE SLOPE		CL-CLAY LOAM			
CV-CONVEX SLOPE		SCL-SANDY CLAY LOAM			
T-TERRACE		SICL-SILTY CLAY LOAM			
FP-FLOOD PLAN	IV	SIC-SILTY CLAY	0.4 - 0.1	EFI-EXTREMELY FIRM	NP-NON-PLASTIC
		C-CLAY			SP-SLIGHTLY STICKY
		SC-SANDY CLAY			P-PLASTIC
					VP-VERY PLASTIC

STRUCTURE  
 SG-SINGLE GRAIN  
 M-MASSIVE  
 CR-CRUMB  
 GR-GRANULAR  
 SBK-SUBANGULAR BLOCKY  
 ABK-ANGULAR BLOCKY  
 PL-PLATY  
 PR-PRISMATIC

MINERALOGY  
 SLIGHTLY EXPANSIVE  
 EXPANSIVE

Show profile locations and other site features (dimensions, reference or benchmark, and North).



# HALOWEN & ASSOCIATES, P.C.

## SOIL & ENVIRONMENTAL SCIENTISTS

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28 December, 2001

Mr. Doug Maclean  
C/o Horton Homes  
7324 Capital Blvd.  
Raleigh, NC 27616

Reference: Septic System Design for Single Family Dwelling  
Lots 6M-8M, Captain's Landing  
Wayne and Lynn Lasalle Property

Dear Mr. Horton,

A septic system design has been prepared for the above referenced property to demonstrate Lots 6M-8M's ability to adequately support a four-bedroom home. A fill system utilizing conventional drainlines was able to be demonstrated for the initial septic system and a fill system utilizing innovative drainlines was demonstrated on the lot for the repair system. Attached is the septic system design and supporting information that has been submitted on your behalf to Mr. Oliver Tolksdors of the Harnett County Health Department for the review and permitting process. This report represents our professional opinion but does not guarantee or represent permit approval for any lot by the local Health Department.

The septic system has been demonstrated with various colored pin flags that are located on the lot. Once you have re-applied for a permit from the Health Department and they have visited the site and issued a permit, the portion of lot 6M that is being utilized for the initial septic system will have to be cleared for installation of the drainfield. We would like to take this time to reiterate the importance that little to no ground disturbing activity should be conducted. **The topsoil should not be scraped, or moved or re-shaped in any way.** Large trees should be removed with as little impact as possible. It is recommended that the large trees are cut off at ground level and the stumps left in the ground. You may wish to use a stump grinder to further remove some of the stump material down to the original ground surface or just below. Holes or depressions left by tree removal or other clearing activities should be filled in to original grade with topsoil type materials either brought in from off site or gathered from onsite in areas not designated for the septic system or the repair area. **If there is any doubt about where materials can be gathered from on site, you should request that we provide guidance or use an off site source for the needed materials.** In addition to these aforementioned recommendations, it is important that no activity or installation is carried out during wet conditions and the use of heavy equipment on the lot should be kept at a bare minimum.

We appreciate the opportunity to provide this service and hope to be allowed to assist you again in the future. If you have any questions or need additional information, please contact us at your convenience.

Sincerely,



Laura J. Fortner  
Soil Scientist in Training III



Hal Owen  
Licensed Soil Scientist