

F. OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL CONSULTING

P. O. Box 400, 266 Old Coats Road

Lillington, NC 27546

Phone (910) 893-8743 / Fax (910) 893-3594

1 December, 1998

Harnett County Environmental Health
P.O. Box 9
Lillington, NC 27546

Attention: Mr. Thomas Boyce, Soil Scientist

Reference: Preliminary Soil Investigation
Lee's Place Subdivision - 9 Lots

Dear Mr. Boyce,

A preliminary soil investigation has been conducted at the above referenced property, located on the south side of Old US 421 Road (SR 1291), Upper Little River Township, Harnett County, North Carolina. The purpose of the investigation was to determine each lots' ability to support a subsurface sewage waste disposal system and repair area for a typical three-bedroom home. All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment and Disposal, 15A NCAC 18A .1900."

This property is underlain by a complex mixture of soils that range from suitable to unsuitable for subsurface sewage waste disposal (see attached map). Suitable soils dominate lots 1 and 2 and were observed at the front of lot 3. The provisionally suitable soils were observed to be friable sandy clay loams or firm sandy clays to greater than 24 inches and will support long term acceptance rates of 0.3 to 0.4 gal/day/sqft.

It appears that the soils on lots 1, 2, 4, 5, 6, 8, and 9 are adequate to support conventional septic systems for the initial systems (pumps could be needed on some lots depending on the house siting). Each of these lots also appears to contain adequate amounts of usable soils to support 100% repair area that may require alternative system design. Lot 3 may require the use of a low-pressure pipe system for the initial system and the repair due to a lack of usable space. Lot 7 contains a limited amount of marginal soils that appear adequate to support an alternative type system and repair area. This lot will likely require low-pressure pipe distribution, may require pretreatment and may be limited to two bedrooms. Additional investigations with backhoe pits will likely be required during the septic system permitting process.

I trust that this report provides the information that you require at this time. If you have any questions or need additional information, please contact me at your convenience.

Sincerely,



Hal Owen
Licensed Soil Scientist

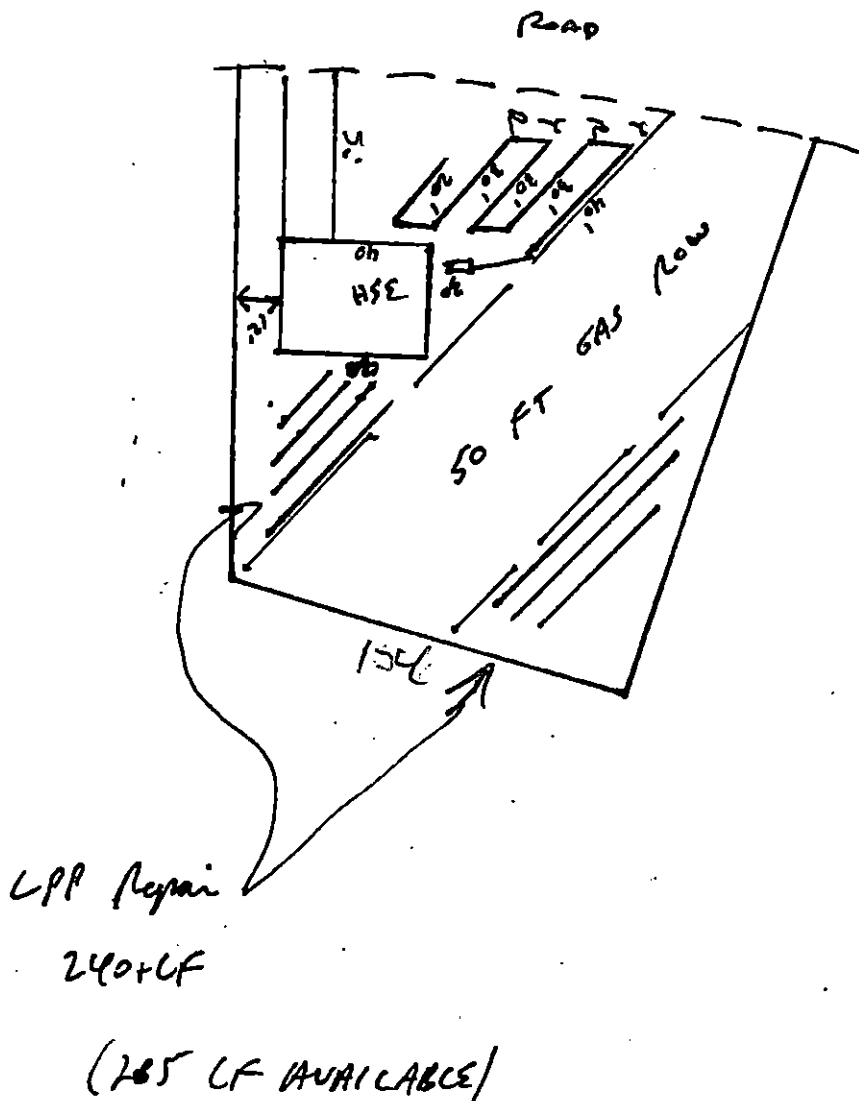


Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321
 Fayetteville, NC 28311-7696
 Phone/Fax (910) 822-4540

LESS Place Lot 3

Proposed Septic



Y = Yellow Flag
 R = Red Flag

House Size Limited
 to 30x45'

0-36 + LS/50 (VFR, m/c)
 LTAR 0.6 gpd/ft²/sl.
 1x 150' EZLAY
 AT 20-24 inches

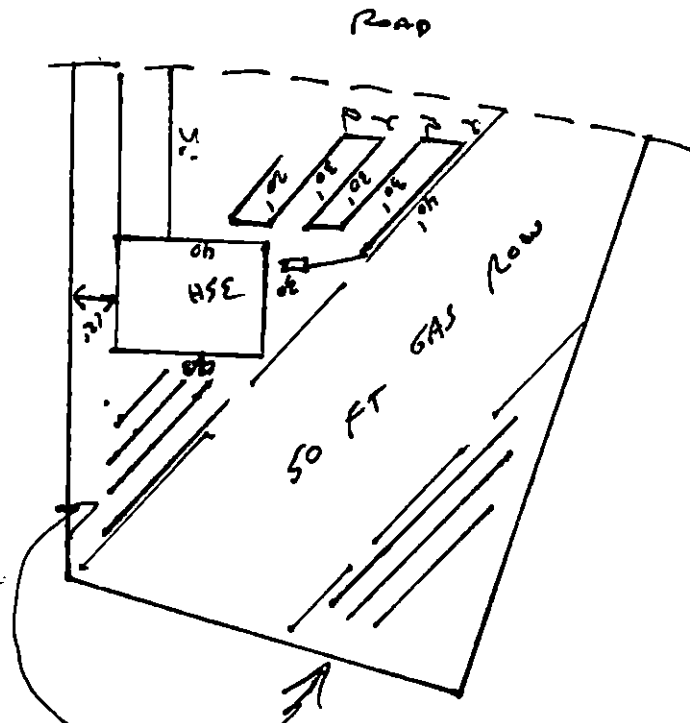
1" = 50'

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LESS Place Lot 3

Proposed Septic



Y = Yellow Flag
 R = Red Flag

House Size Limited
 to 30x40'

0-36 + LS/50 (VFR, m/c)
 LTAR 0.6 gpd / ft² (sland)
 1x 150' EZZLAY
 AT 20-24 inches

LPP Repair

240+LF

(285 LF AVAILABLE)

1" = 50'

