

HALOWEN & ASSOCIATES NC.

SOIL & ENVIRONMENTAL SCIENTISTS

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1 February, 2002

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

Reference: Lot 21, Hectors Creek Subdivision
Septic System Design

Dear Mr. McSwain,

A septic system design was prepared for the above referenced property located at 1415 Hectors Creek Lane, Harnett County, North Carolina. The purpose of this design was to demonstrate the ability of this lot to support a subsurface sewage waste disposal system and 100 % repair area for the existing three-bedroom home on the lot. It is my understanding that public water supplies will be utilized for this lot. A gravity-driven, serial distribution system to innovative drainlines is the proposed design for the initial septic system and a gravity-driven conventional septic system is the proposed design for the repair system. Both of these systems have a trench depth of 18 inches so that a combination of soil and saprolite will provide treatment for the effluent.

Attached is the septic system layout and supporting information for this lot. I trust that this report provides all the information that you require at this time. If you have any questions or need additional information, please contact me at your convenience.

Sincerely,



Laura J. Fortner
Soil Scientist in Training III

Lot 21, Hectors Cre Sbdv.

On-Site Wastewater Design Specifications

Prepared By: LJF
Hal Owen & Associates, Inc.
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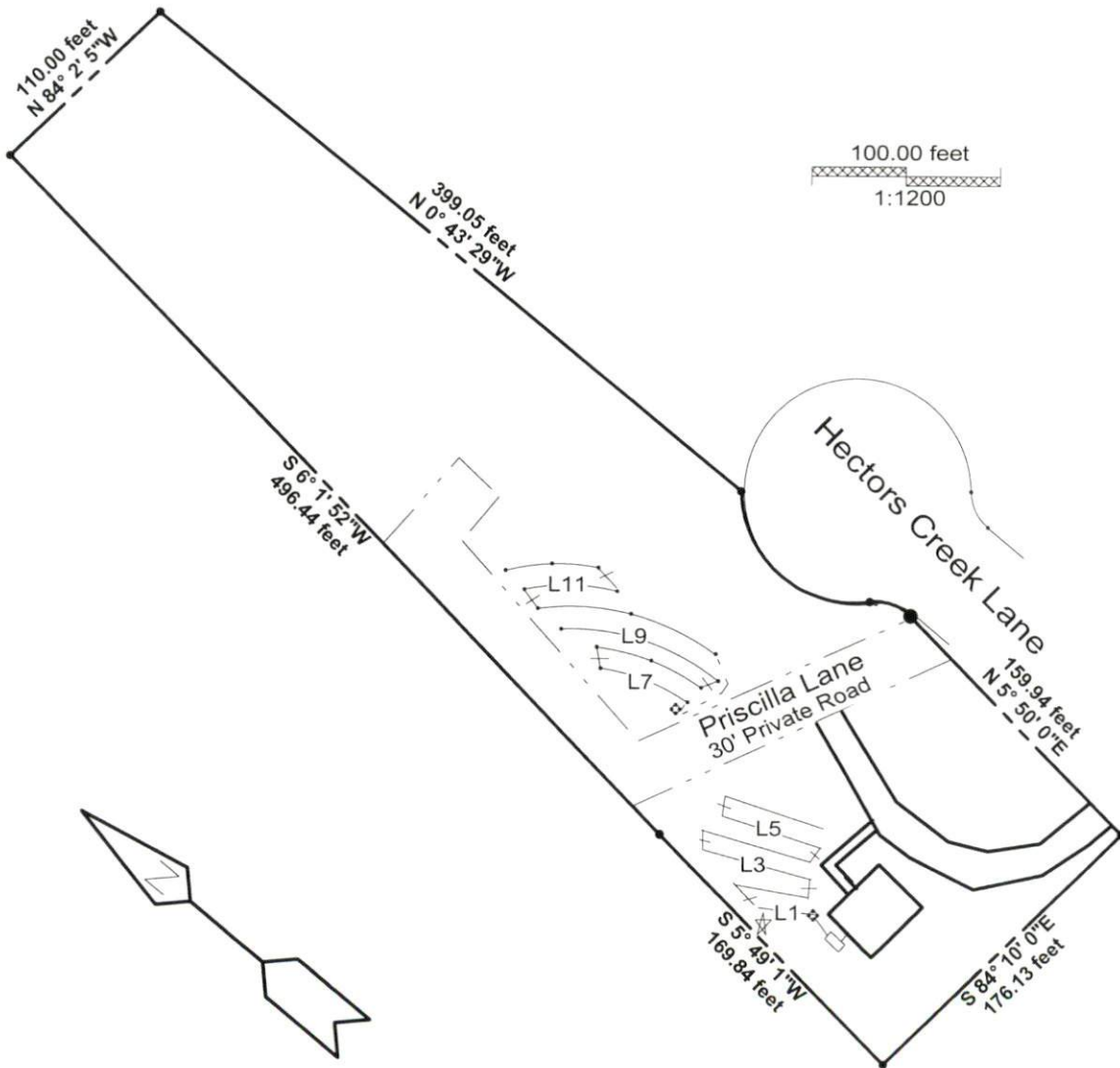
House Footprint: Existing Home (No Foundation Drain)
Bedrooms: 3

Initial System: Gravity Serial Distribution Innov. (300 ft)
Saprolite System
on contour at: 18 inches
LTAR: 0.3 gpd/sqft (0.4 gpd/sqft for innov.)

Repair System: Gravity driven 2 x 200' gravel trenches
Saprolite System
on contour at: 18 inches
LTAR: 0.3 gpd/sqft

LEGEND

☆	EIP	□	Septic Tank
⌊	Step-down	■	Pump Tank
⊙	Proposed Well	⊖	D-Box
⊗	Existing Well	⊞	Pressure Manifold



Lot 21, Hectors Creek Sbdv.

Lines flagged at site on 9-ft centers.

Initial/ Repair	Line #	Color	Drainline Length(ft)	Measured Field Line Length (ft)	Relative Elevation (ft)
Repair	1	Y	30	34	99.13
Repair	2	B	40	42	98.07
Repair	3	W	60	60	96.37
Repair	4	Y	60	63	93.9
Repair	5	B	55	56	91.64
Repair	6	W	55	55	89.16
Initial	7	B	50	52	88.88
Initial	8	Y	60	65	87.04
Initial	9	W	90	90	85.14
Initial	10	B	100	103	83.09
Initial	11	Y	50	60	81.31
Initial	12	W	50	60	79.37
		Total:	700	740	EIP=0

Hectors Creek, Lot 21

A	0-1	10YR	3/3	ficl	SEXP	SS/SP
Bt	0-26	7.5YR	5/6	fic	SEXP	MS/MP
^{SAP} BC	26-28	10YR	5/4	fnsl	SEXP	NS/NP
C1	28-48	10YR	5/4	fnsl/ls	SEXP	NS/ND
C2	48+	10YR	5/4	fnsl	SEXP	SS/SP
		7.5YR	5/6			