Division of Environmental Health
On-site Wastewater Section

Property ID:
Lot #:
File #:
Code:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner:
Address:
Proposed Facility: 3 BEDROOM HOME Design Flow (.1949): 360 gpd
Location of Site:

Applicant:
Date Evaluated: 6/8/09
Property Size:
Property Recorded:

Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1		0-11	GS	VFR NS/NP					US
		11"+	MC						
2		0-4"	GS	VFR NS/NP					US
		4"+	MC						
3		0-11"	GS						US
		11"+	MC		GRADE 24"				
4		0-11"	GS						US
		11"+	MC						

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR		

Other Factors (.1946):
Site Classification (.1948):
Evaluated By: SEE ATTACHED PROPOSAL & NOTES
Others Present:

FILE #_____

COMMENTS:_____

_____

_____

_____

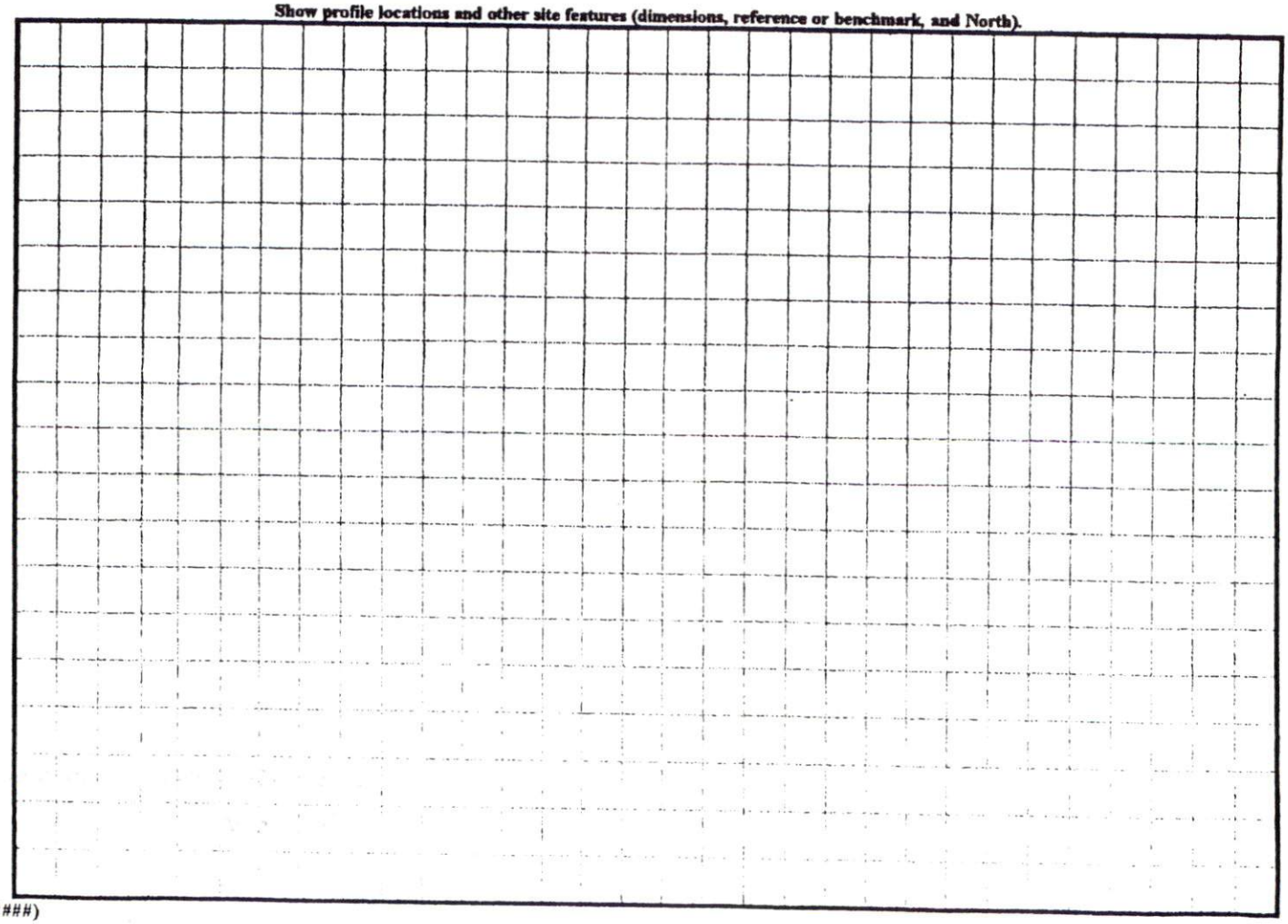
LANDSCAPE POSITIONS	GROUP	TEXTURES	.1955 LTAR	CONSISTENCE MOIST	WET
R-RIDGE S-SHOULDER SLOPE L-LINEAR SLOPE FS-FOOT SLOPE N-NOSE SLOPE H-HEAD SLOPE CC-CONCLAVE SLOPE CV-CONVEX SLOPE T-TERRACE FP-FLOOD PLAN	I	S-SAND LS-LOAMY SAND	1.2 - 0.8	VFR-VERY FRIABLE FR-FRIABLE FI-FIRM VFI-VERY FIRM EFI-EXTREMELY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

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).



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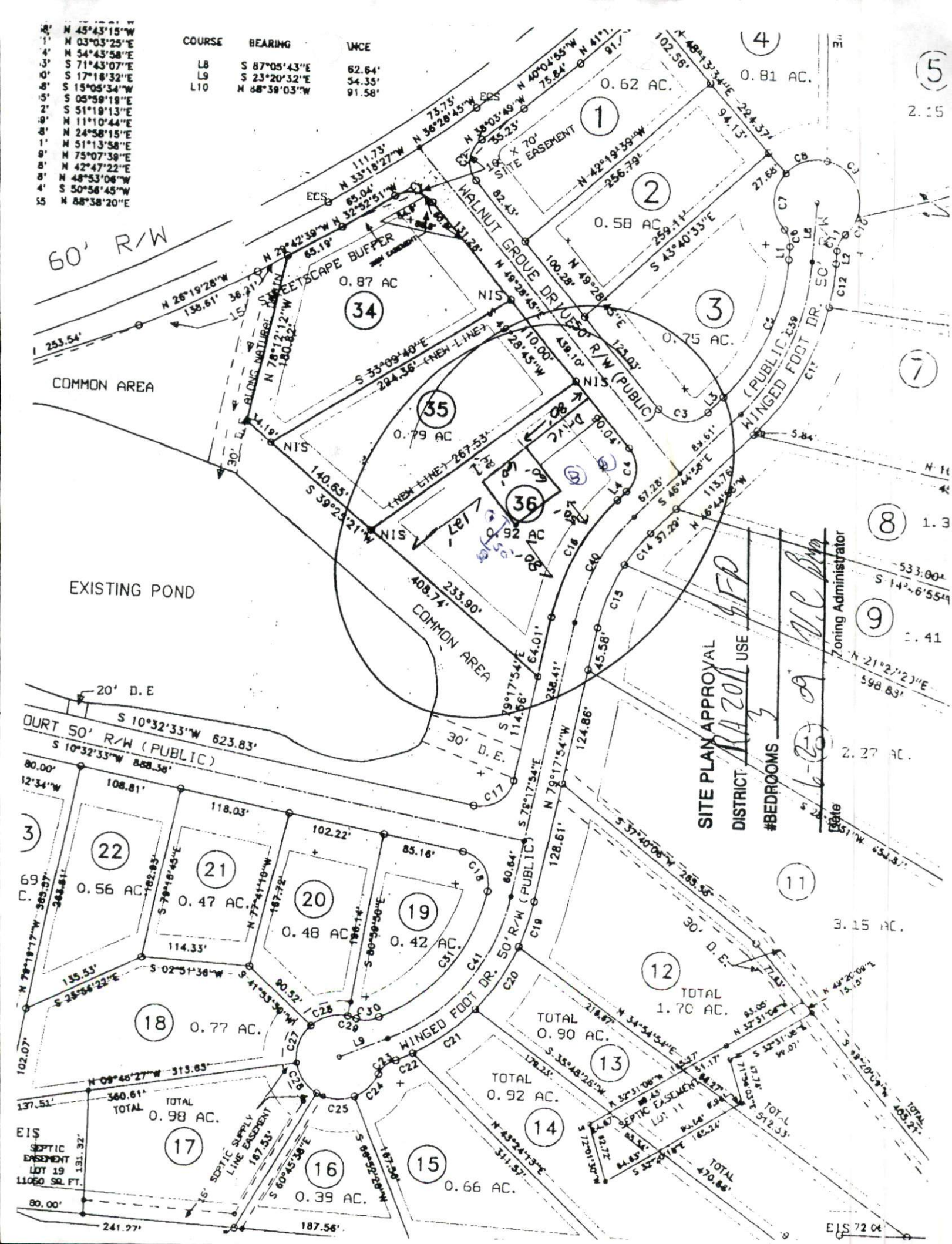

COURSE BEARING UNCE
L8 S 87°05'43"E 62.64'
L9 S 23°20'32"E 54.35'
L10 N 68°39'03"W 91.58'
60' R/W
LANDSCAPE BUFFER
0.87 AC
34
COMMON AREA
WALNUT GROVE DR. 50' R/W (PUBLIC)
0.62 AC.
1
0.58 AC
2
0.75 AC.
3
0.81 AC.
4
35
0.79 AC
36
0.92 AC
EXISTING POND
COMMON AREA
WINGED FOOT DR. 50' R/W (PUBLIC)
20' D.E
30' D.E.
SITE PLAN APPROVAL
DISTRICT
#BEDROOMS
Zoning Administrator
Date
22
0.56 AC
21
0.47 AC.
20
0.48 AC
19
0.42 AC.
18
0.77 AC.
17
TOTAL
0.98 AC.
16
0.39 AC.
15
0.66 AC.
14
TOTAL
0.92 AC.
13
TOTAL
0.90 AC.
12
TOTAL
1.70 AC.
11
3.15 AC.
9
2.27 AC.
8
1.3
7
5
2.15
EIS
SEPTIC EASEMENT LOT 19 11050 SQ. FT.
SEPTIC SUPPLY LINE EASEMENT
SEPTIC EASEMENT LOT 11
EIS 72 04

Thomas J. Boyce
P.O. Box 81
Pittsboro, NC 27312
919-868-8135
NC Licensed Soil Scientist # 1241
NC Registered Sanitarian # 1353

Keith Bullock Builders
Angier, NC 27501

Re: Walnut Grove Subdivision, Lot 36, Harnett County

Dear Mr. Bullock,

A soils evaluation was completed on the above referenced property on June 13, 2009. The purpose of the evaluation was to determine the ability of the soils to support a subsurface waste disposal system for a three bedroom house initial and repair. All ratings and determinations were made in accordance with "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900".

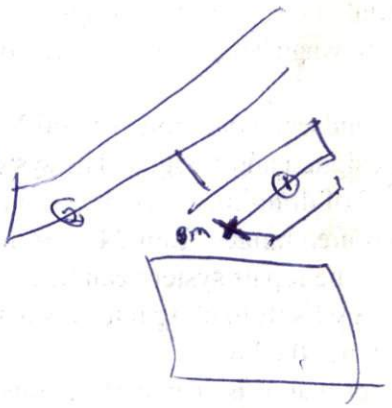
The tract was evaluated by auger borings and landscape position. The 60 X 60 house site was flagged at the time. An accepted system was designed and flagged. The system was sized with a .3 gpd/sqft loading rate requiring 300 linear feet of drainline. Trenches should be installed at 12 inches deep with 6 inches of cover. Soils in this area ranged from 24 to 36 inches. Soils were limited by expansive clays and/or soil wetness. The repair system can be a drip irrigation without pretreatment, requiring 18 inch soil depth. A .1 gpd/sqft loading rate was assigned, requiring 3600 sq. ft. of area. Enclosed is a site plan showing the layout.

This report does not guarantee or represent approval or issuance of permits as needed by the local health department. This report only represents my opinion as a licensed soil scientist. I trust this is the information that you require at this time. If you have any questions, please call.

Sincerely,

Thomas J. Boyce

① 0-14" GS
14-28" SBK SCL FI SS/SP
CR2@26" .3



③

1'10.5"

WHITE LINE

2'9.5"

4 MV

✱ BM

② 0-10" GS VFL NS/NP
10-30" SBK SCL FI SS/SP
CR2@26" PS .5

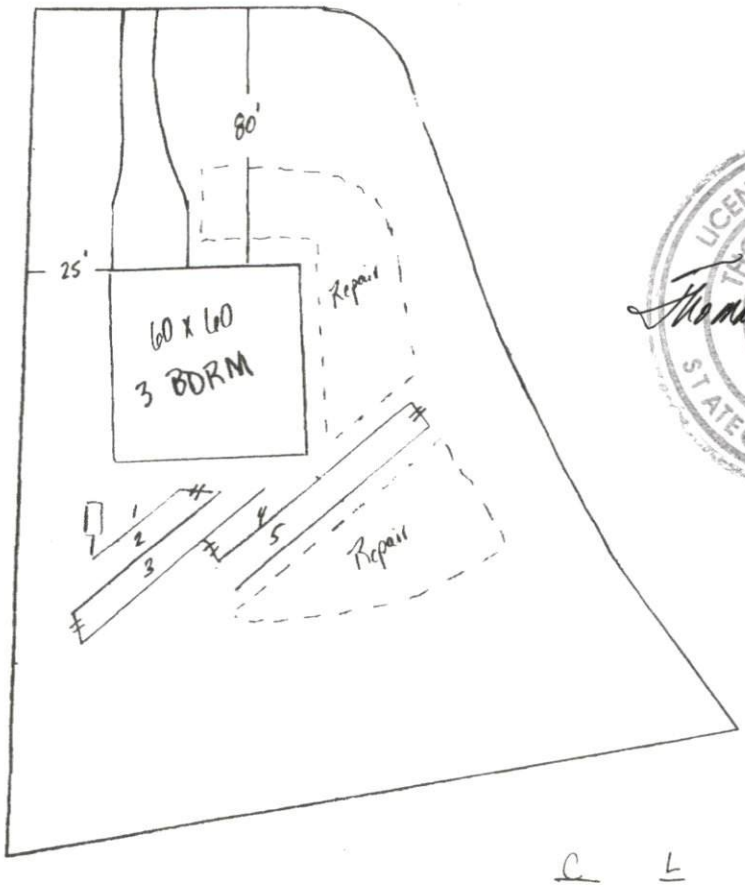
2'7.5"

1'10.5"

③ 0-24" GS VFL NS/NP .8

11"

Walnut Grove Lot 36
Keith Bullock Builders



LICENSED SOIL SCIENTIST
THOMAS J. BOYCE
STATE OF NORTH CAROLINA
1241

Thomas J. Boyce

	C	L
1	B	35
2	W	60
3	R	75
4	B	80
5	W	80
		330'

1" = 60'

.3 LTAR

330' Accepted Required

12" Trench Depth

6" cover required over system area

Repair — Drip Irrigation without Retreatment
.1 LTAR = 3600 ft²