Department of Environment, Health, and Na Resources

Division of Environmental Health

On-site Wastewater Section

760 CON
570 25%

Site
Property
Lot #:
File #:
Code:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner:

Applicant:

Address:

Date Evaluated:

Proposed Facility: GR CHILD DAYCARE 8 STAFF

Design Flow (.1949): 1140 gpd

Property Size:

Location of Site:

Property Recorded:

Water Supply: [ ] Public [ ] Individual [ ] Well [ ] Spring [ ] Other

Evaluation Method: [ ] Auger Boring [ ] Pit [ ] Cut

Type of Wastewater: [ ] 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.)	.1944 Slope Class	.1944 Restrictive Horiz.	Profile Class & LTAR
1	LS 0-2%	0-28	G LS	VFR NS/NP					5 .8
		0-36"	G LS	VFR NS/NP					
2		36-43"	SBK SCL	FR SS/NP					PS .5
		0-6"	G LS	VFR NS/NP					
3	LS 2-5%	6-15"	SCL	FI	10YR 7/1,				US
		15"+	M C	FR S/P	10YR 7/1 @15"				
4		0-28"	G S	VFR NS/NP					PS .8
		28"+	PM						
5		0-28"	G S	VFR NS/NP					PS .6
		28-35"	SBK SCL	FR SS/NP					
		35"+	PM						

Description	Initial System	Repair System
Available Space (.1945)	✓	✓
System Type(s)	PUMP INNOV	PUMP RECIRC SAND
Site LTAR	.5	.8

Other Factors (.1946):

Site Classification (.1948): PS

Evaluated By: OT

Others Present:

FILE # _____

COMMENTS: _____

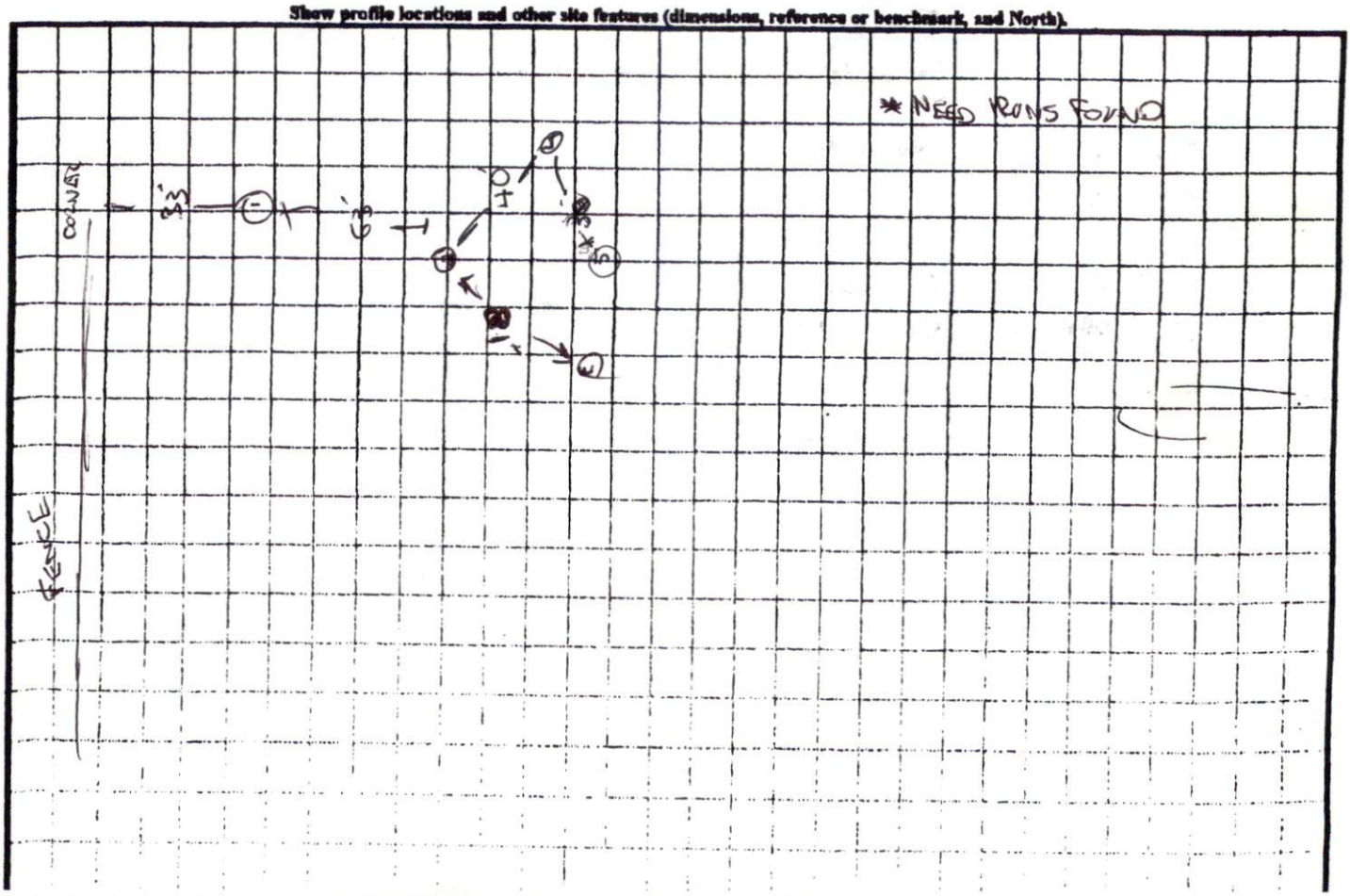
LANDSCAPE POSITIONS	GROUP	TEXTURES	.1955 LTAR	CONSISTENCE MOIST	WET
R-RIDGE	I	S-SAND	1.2 - 0.8		
S-SHOULDER SLOPE		LS-LOAMY SAND		VFR-VERY FRIABLE	NS-NON-STICKY
L-LINEAR SLOPE				FR-FRIABLE	SS-SLIGHTLY STICKY
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8 – 0.6	FI-FIRM	S-STICKY
N-NOSE SLOPE		L-LOAM		VFI-VERY FIRM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

$68 \times 8 = 76 \times 15 = 1140$

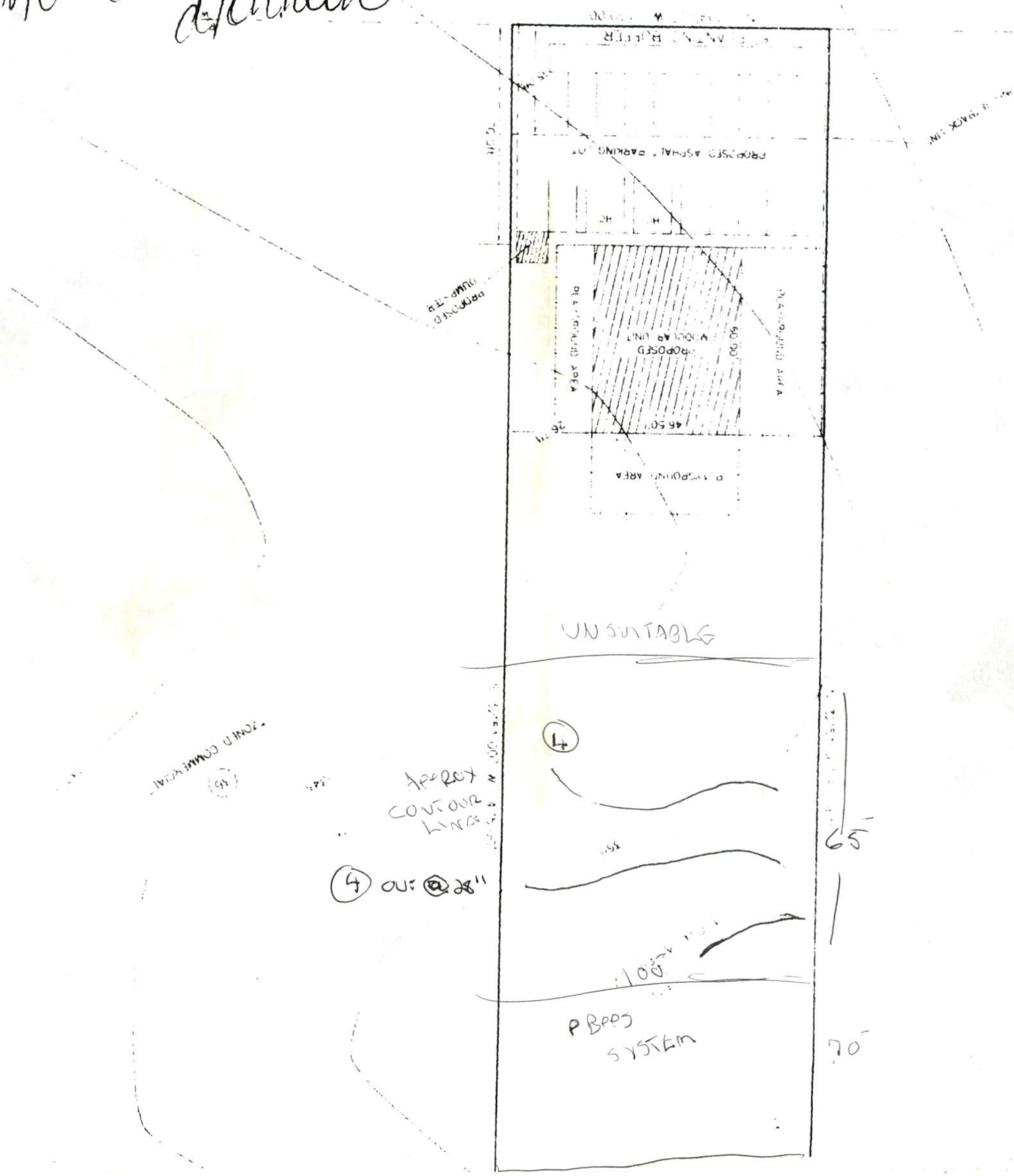
$1140 \div .5 \div 3 \times .75 = 570\text{ft}$

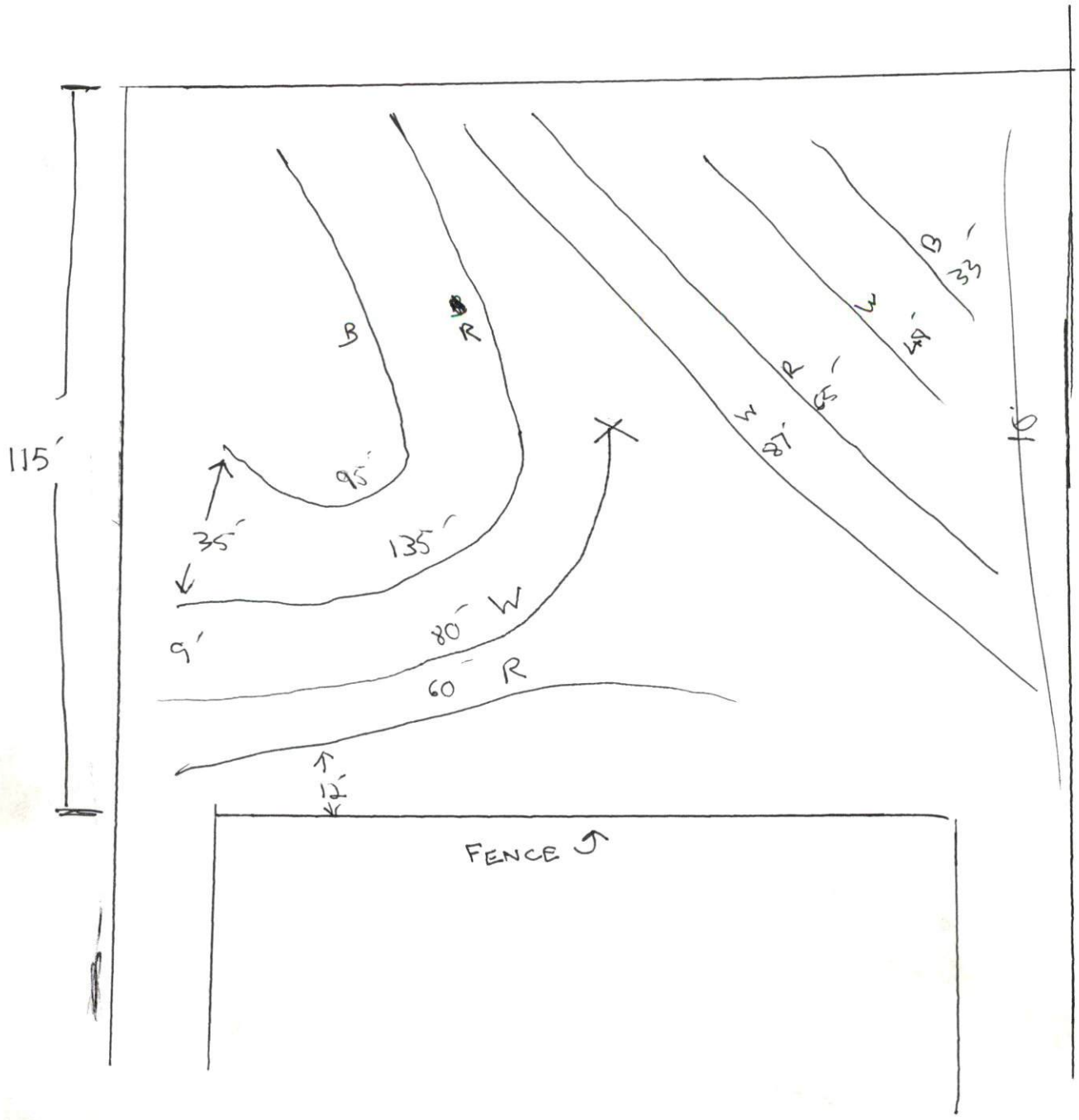
STRUCTURE	MINERALOGY
SG-SINGLE GRAIN	SLIGHTLY EXPANSIVE
M-MASSIVE	
CR-CRUMB	EXPANSIVE
GR-GRANULAR	
SBK-SUBANGULAR BLOCKY	
ABK-ANGULAR BLOCKY	
PL-PLATY	
PR-PRISMATIC	

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



10.11.07
* Approved conditional use
w/ conditions.



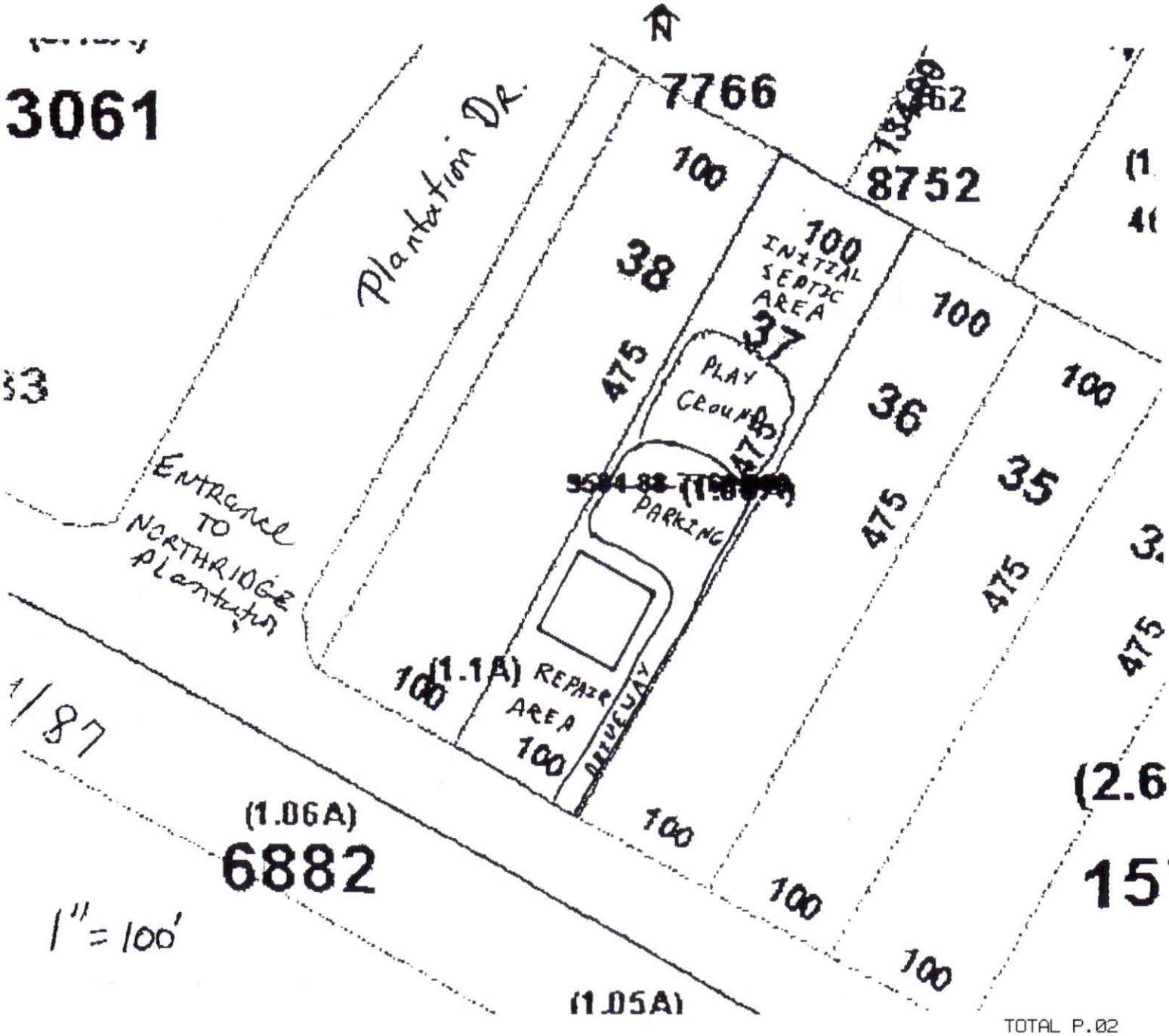

115'
B
R
95'
35'
135'
9'
80' W
60' R
12'
FENCE
W
87'
R
65'
W
48'
B
33'
15'

[redacted] Spatial Data Explorer

Click on the Map to:

Zoomin Zoomout Recenter Map Identify: Tax Parcels

Zoom Factor: 2X Radius Search (feet) 0



SOIL ... ENVIRONMENTAL SCIENTISTS
P. O. Box 400, 266 Old Coats Road
Lillington, NC 27546
Phone (910) 893-8743 / Fax (910) 893-3594
E-mail: halowen@earthlink.net

14 March, 2005

Rhonda McElroy
Touchstone Realty
83 Carolina Lakes Road
Sanford, NC 27332

Reference: Soil Investigation – PIN 9584-88-7766.000
Robert & Evelyn Vencill Property – 1.1 Acres

Dear Ms. McElroy,

A site investigation has been conducted for the above referenced property, located on the eastern side of NC Hwy 87, Harnett County, North Carolina. The purpose of this investigation was to determine the site's ability to support a subsurface sewage waste disposal system and repair area for a child daycare facility. It is my understanding that the buyer wishes to establish a daycare facility adequate for 100 to 120 children. It is also understood that public water supplies will be utilized and that no wells will be located on this property. All sewage disposal ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment and Disposal, 15A NCAC 18A .1900." This report represents my professional opinion as a Licensed Soil Scientist but does not guarantee or represent permit approval for any lot by the local Health Department. An improvement permit will need to be obtained from the Health Department that specifies the proposed building size and location, and the design and location of the septic system to be installed.

This property is composed of a mixture of soils that range from suitable to unsuitable for subsurface sewage waste disposal (see attached map). The soils at the very front and at the rear of the lot are deep sands and are excellent for installation of septic systems. Five yellow flags (two at the front and three at the rear) were placed at the site when these high quality soils were observed. These soils will support high long-term application rates and will require the least amount of space for the installation of the septic system. It is recommended that these areas be designated for septic system installation.

Also observed at the site were soils rated as provisionally suitable for septic systems due to clayey textured subsoil layers. Blue flags were placed at the boring when these soils were observed. These soils will adequately function as sewage waste disposal sites but will require additional drainline (more space) due to clayey textured subsoil characteristics.

The middle of the lot is unsuitable for septic installation due to poor landscape position and inadequate usable soil depth. An overhead electric line also crosses the lot in this area. It is recommended that this area be used for the other purposes such as parking and playground. Surface water management practices will be required to properly utilize this part of the property.

This lot appears adequate to support the septic needs of a child daycare facility with a 100 to 120 person capacity, provided that the building, parking, playground and any other required use be concentrated in the central portion of the lot. If other development options are chosen, such that significant amounts of the higher quality soils are consumed by other uses, the number of children may need to be reduced or more expensive septic disposal options may need to be utilized. A sketch is provided that represents a recommendable development format. However, many other options likely exist that will work for this site. If the buyer desires, I will be happy to provide additional opinions and/or septic system designs after the development plan is formulated.

I appreciate the opportunity to provide this service and trust that you will feel free to call on me again in the future. If you have any questions or need additional information, please contact me at your convenience.

Sincerely,

Hal Owen

Hal Owen
Licensed Soil Scientist

LICENSED SOIL SCIENTIST
HAL OWEN
1102
STATE OF NORTH CAROLINA