S&ME

Health Dept. Copy

To: Iredell County Environmental Health Department

From: Paul G. Penninger, LSS
Kathleen Saunders, LSSIT

RE: Woodleaf Subdivision – Woodbridge Partners, LLC – Lot 95 Fast Track

Date: April 19, 2006

Attached is the Fast Track information required to place Lot 95 Woodleaf Subdivision on your developer work list to review the septic system layouts. Please call when you are ready to review the lot and we will meet you on the site.

The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist the Iredell County Environmental Health Department (ICHD) with the site evaluation. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC rules. If the ICHD wishes to change tank locations, distribution devices, etc., this can be shown on the Improvement Permit.

All information and specifications were prepared in conjunction with the Fast Track Program for Iredell County and are for the use of Woodbridge Partners, LLC in acquiring permits under the Fast Track Program. All soil work has been approved by David Hinson of the Iredell County Health Department. It is ultimately the Iredell County Health Department's responsibility to verify all specifications before permitting and/or septic system installation.

S&ME, INC. / 385 Timber Road, Suite 104 / Mooresville, NC 28115-7899 / p 704.662.8625 f 704.662.8735 / www.smeinc.com

Table 1: Summary of Primary and Repair Nitrification Line Specifications

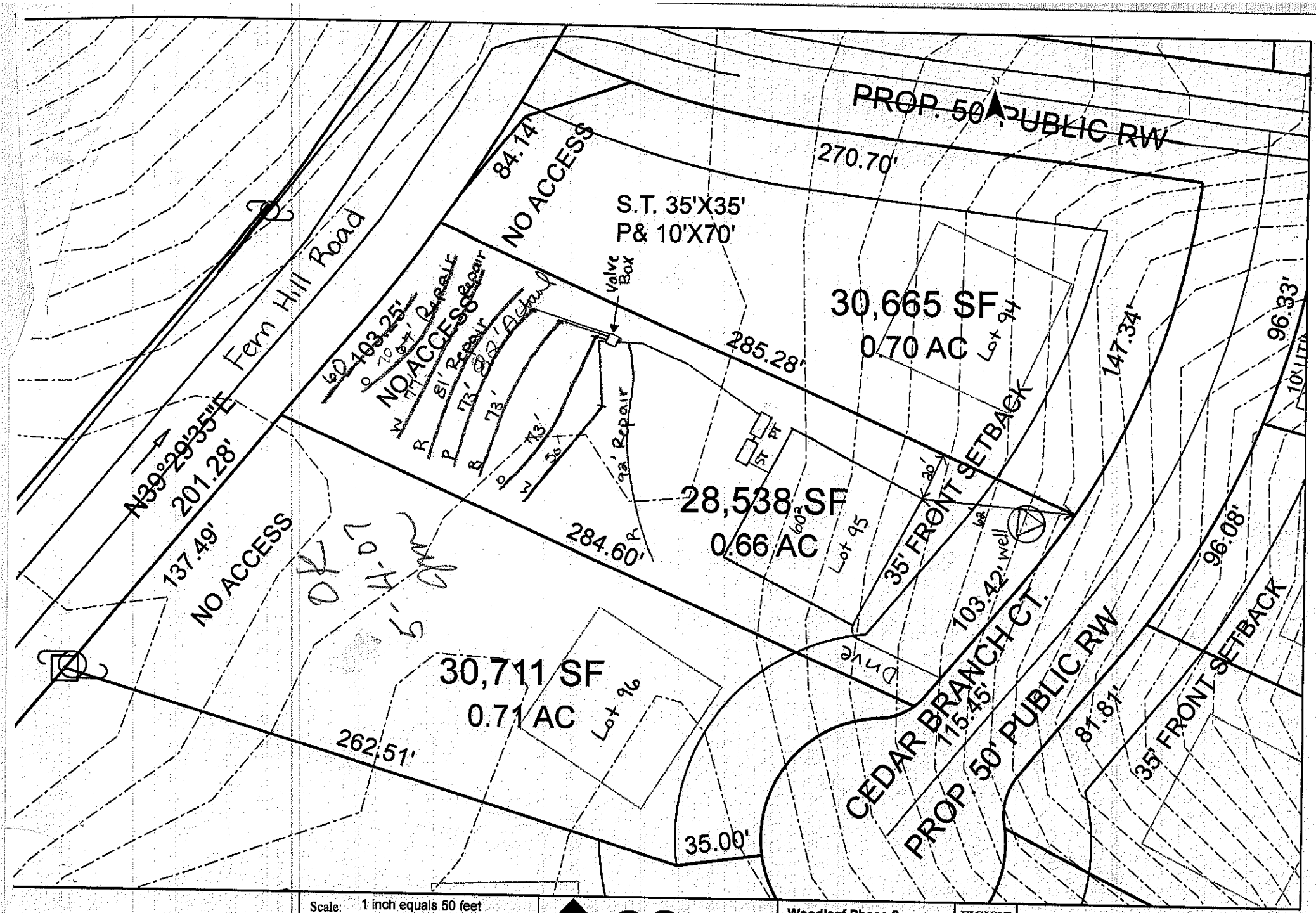
Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	Repair	Red	LPPPBPS	92					
2	System	White	LPPPBPS	50 endfed	5.8	11	11	1 per panel	5/32"
3	System	Orange	LPPPBPS	73 endfed		16	16	1 per panel	5/32"
4	System	Blue	LPPPBPS	73 endfed		16	16	1 per panel	5/32"
5	System	Pink	LPPPBPS	73 endfed		16	16	1 per panel	5/32"
6	Repair	Red	LPPPBPS	81					
7	Repair	White	LPPPBPS	77					
8	Repair	Orange	LPPPBPS	67	3.0				
						Total: 59	Total: 59 (1 in each panel turned up)		
				Total System: 269'					
				Total Repair: 317'					

Tank	Red	1000 gal (2 compartment)	4.8
Pump Tank	Red	1000 gal.	4.8
House	Blue		5.5

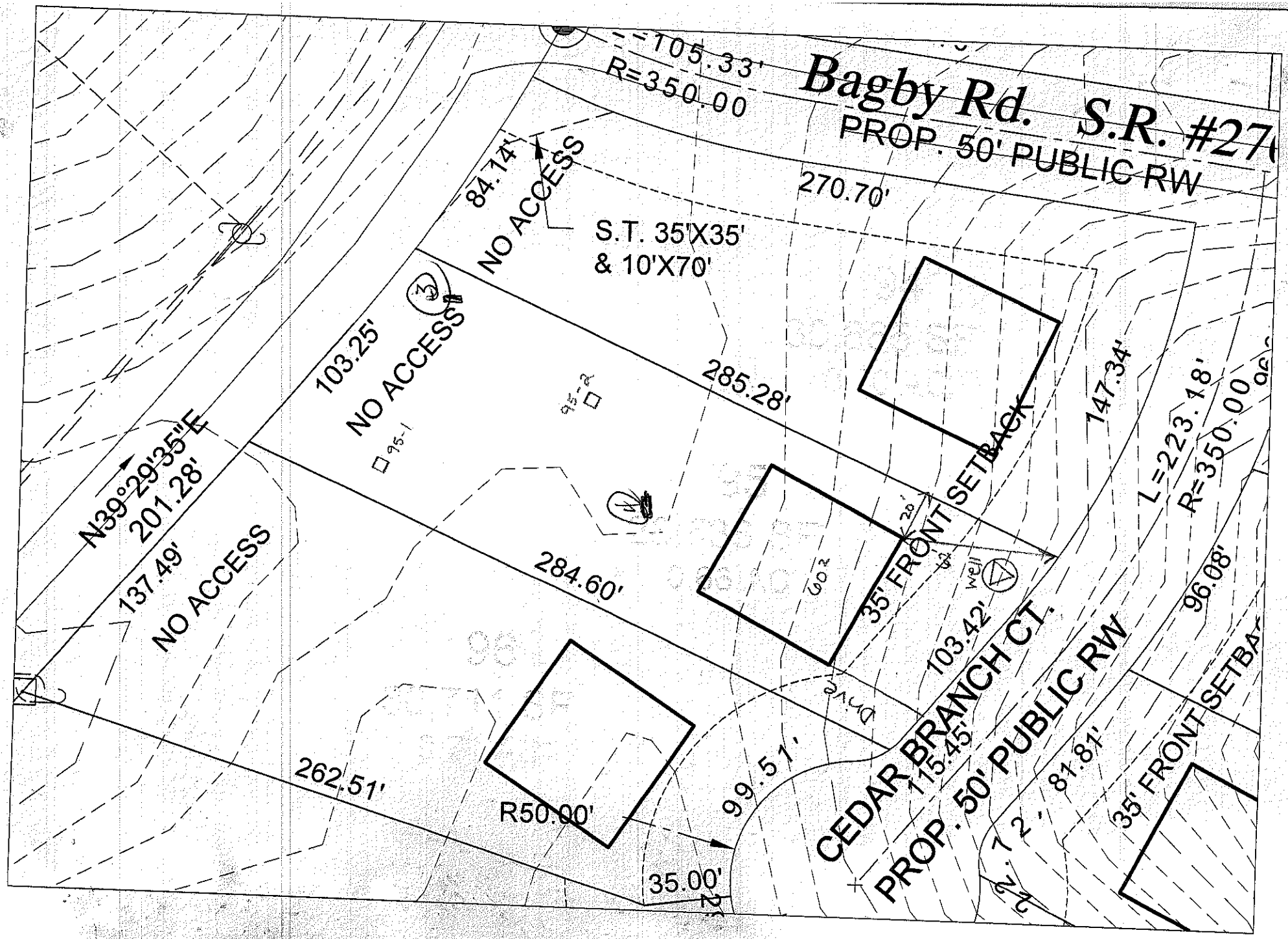
Lot 95 Woodleaf Phase 2 Fast Track Septic System Information

Number of Bedrooms	4
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
No. Lines	4 (See Table)
Total Linear Feet	269
Trench Width	2' min.
Trench Spacing	8' min.
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	70' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	29.5 gpm
Elevation head	Approx. 7.8'
Pressure head	3.0'
Friction head	1.1'
20% Contingency	2.4'
Total Head	14.3'
Pump Requirements	29.5 gpm @ 14.3' of head To be designed by installer.
Maximum Dosing Volume	212.4 gal -2.3 doses/day @ design flow*
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 7.2 min.
Check Valve	Yes
Siphon Break hole	No
Repair System	**LP PPBPS**
Total Linear Feet	317
Repair LTAR	0.3

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**



Scale: 1 inch equals 50 feet	S&ME	Woodleaf Phase 2	FIGURE
Drawn by: JBP		Lot 95	1
Reviewed by: PGP		Iredell County, NC	
Date: April, 2007	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	S&ME Project #1588-06-077	


Bagby Rd. S.R. #27
PROP. 50' PUBLIC RW
105.33'
R=350.00
84.74'
NO ACCESS
270.70'
S.T. 35'X35'
& 10'X70'
103.25'
NO ACCESS
285.28'
147.34'
L=223.18'
R=350.00
N39°29'35"E
201.28'
137.49'
NO ACCESS
284.60'
35' FRONT SETBACK
20'
well
103.42'
96.08'
CEDAR BRANCH CT.
PROP. 50' PUBLIC RW
115.45'
262.51'
R50.00'
99.51'
35.00'
35' FRONT SETBACK
95-1
95-2
95-3

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Woodleaf
ADDRESS: _____ APPLICATION DATE _____
PROPOSED FACILITY: Lot 95 PROPOSED DESIGN FLOW (.1949): _____ DATE EVALUATED: 12/18
LOCATION OF SITE: _____ PROPERTY SIZE: _____
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____ PROPERTY RECORDED: _____
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1949 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	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 4%	0-6	wkmk/gr scl	FR SS SP	RB				PS
		6-33	m/wkbk c	FR SS SP	red	Fi Sap Inclu			0.3
		33-52	mass sl	FP SS SP	mott	Fi Sap Inclu			
					Vein of Sap in back corner extends into"				
2	L 24%	0-12	mar scl	FR SS SP	br				PS
		12-30	wkbk scl	FR SS SP	rb				0.3
		30-52	wkbk cl	FR SS SP	red	Fi Sap Inclu			
3		0-8	gr brwn sl/scl	FR SS SP					.3
		8-25	mkbk red/brc	FR SS SP	Sap	Fi and Sap			
		25-52	mkbk cl-Sap	FR SS SP					
		52-63	Massive L Sap	FR SS SP					
4		0-9	gr brwn sl	FR SS NP					.3
		9-27	mkbk red/brc	FR SS SP	Sap	Fi and Sap			
		27-38	mkbk cl	FR SS SP	common many med Sap				
		38-55	Massive L Sap	FR SS NP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: _____