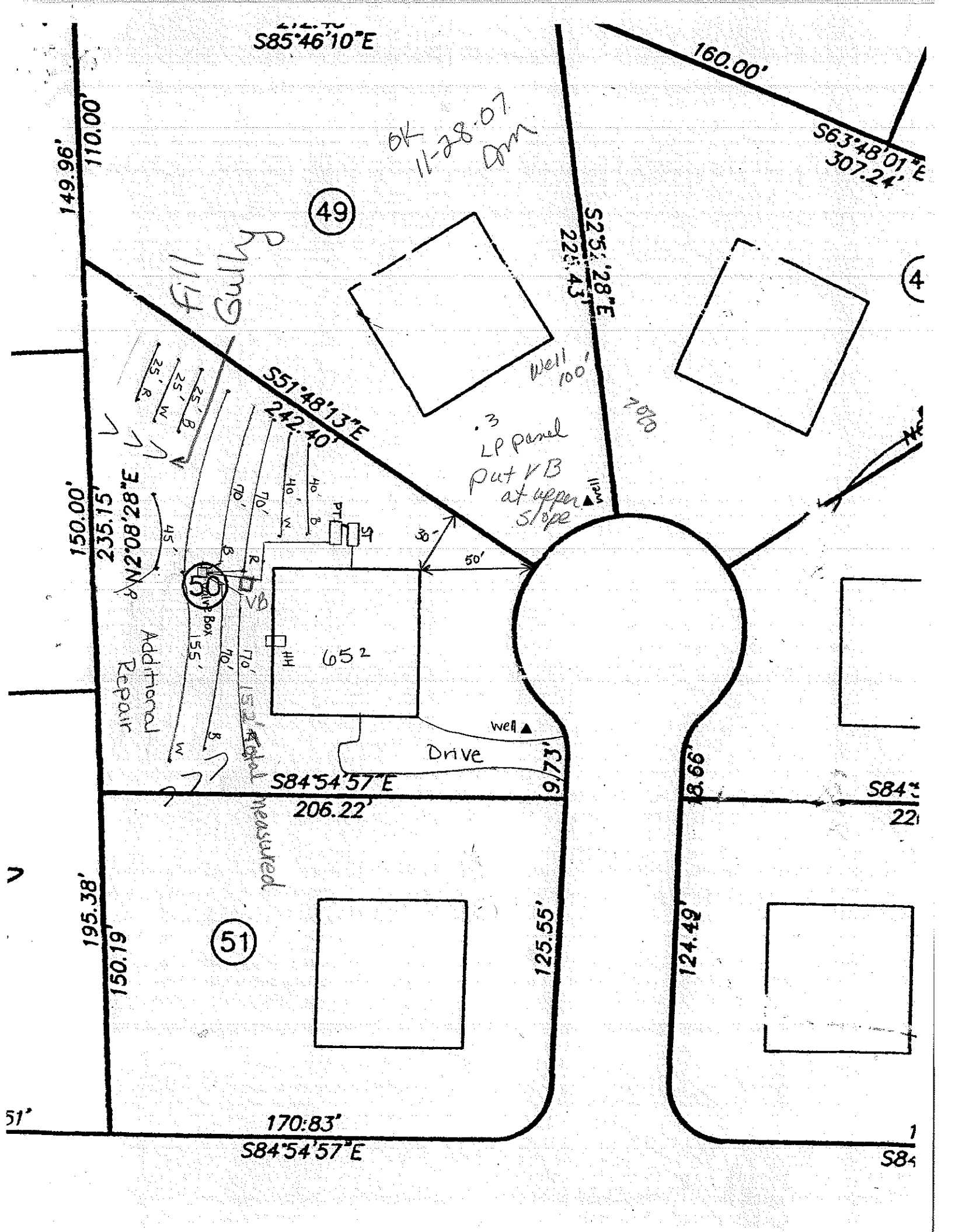

S85°46'10"E
160.00'
S63°48'01"E
307.24'
149.96'
110.00'
OK 11-28-07 dm
49
S25°28'E
225.43'
4
Gully
S51°48'13"E
242.40'
Well 100'
.3 LP Panel Put VB at upper slope
100
Well
150.00'
235.15'
N2°08'28"E
45°
25' R
25' W
25' B
70'
70'
40'
40' W
40' B
PT
59
30'
50'
B
R
VB
Elec Box
155'
70'
170' Total measured
W
B
W
50
652
HH
Additional Repair
Well
Drive
S84°54'57"E
206.22'
9.73'
8.66'
S84°
22
195.38'
150.19'
51
125.55'
124.49'
51°
170.83'
S84°54'57"E
1
S84

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

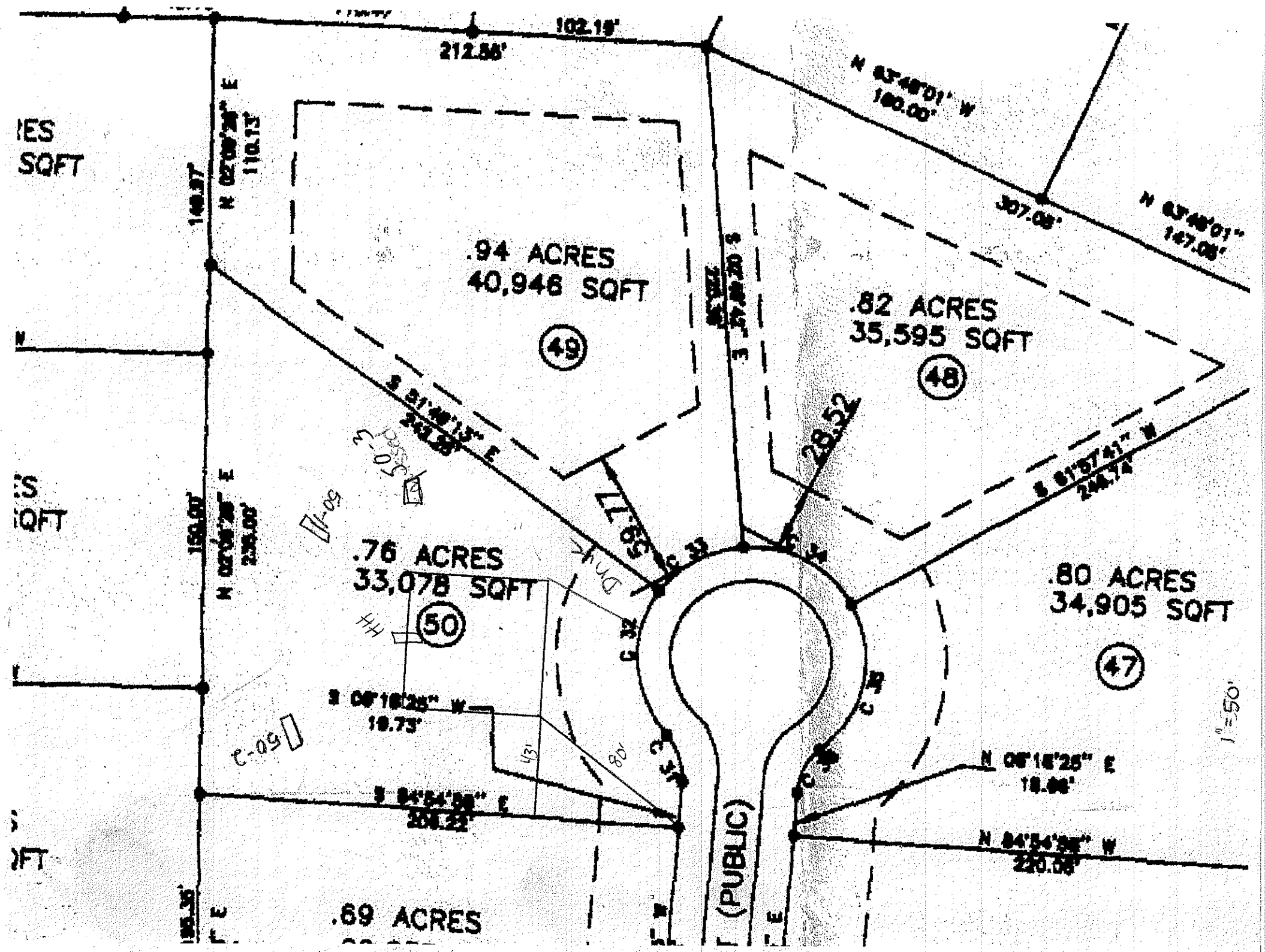
OWNER: Georgia Mills Plantation
ADDRESS: _____ APPLICATION DATE _____
PROPOSED FACILITY: House PROPOSED DESIGN FLOW (.1949): _____ DATE EVALUATED: 11/7/01
LOCATION OF SITE: Lot 50 PROPERTY SIZE: _____
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____ PROPERTY RECORDED: _____
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
AH		0-18	wk-moSBK SCL	FR SS/SP	Red				
1	L	18-39	moSBK C	FR SS/SP	Red		P-CSap		0.3
		39-48	WKSBK CL	FR SS/SP	Red				
	50-1	0-3	MO GR SL	FR SS/NP	Br				
2	JM 11-15-01	3-27	WKSBK C	FR SS/SP	Red		FSap		
		27-43	WKSBK CL	FR SS/SP	Red ycl		M-Sap		0.3
	40" Sap	43-55	MA SL Sap	FR SS/NP	multi				
	50-2	0-5	Mo GR SL	FR NS/NP	Br				
		5-30	Mo SBK SCL	FR SS/SP	Red		FSap		
	L	30-52	WK SBK CL	FR SS/SP	Red		C Sap		0.3
		0-8	WK sbk scl	fr s s sp	Red/Br.				
	3	8-13	mo sbk C	fr ss sp	Red				
		13-32	WK sbk cl	fr ss sp	Red		f-C Sap		.3
	1990	32-56	WK sbk cl	fr ss sp	Red		C-M Sap		

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
ailable Space (.1945)		
tem Type(s)		
LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: Kathleen Saunders, Karen Wallace
OTHER(S) PRESENT: _____

MENTS: _____


212.56'
102.19'
N 83°48'01" W
180.00'
307.08'
N 83°48'01" W
147.08'
.94 ACRES
40,946 SQFT
49
.82 ACRES
35,595 SQFT
48
28.52
S 61°57'41" W
246.74'
.76 ACRES
33,078 SQFT
50
.80 ACRES
34,905 SQFT
47
S 06°16'25" W
19.73'
43'
80'
N 06°16'25" E
19.86'
S 84°54'35" E
206.22'
N 84°54'35" W
220.06'
(PUBLIC)
.69 ACRES
1"=50'

S&ME

Health Dept. Copy

To: Iredell County Environmental Health Department

From: Kathleen Saunders, LSSIT
Paul Penninger, LSS

RE: Georgia Mills Plantation – Pilot Development – Lot 50 Fast Track

Date: November 19, 2007

Attached is the Fast Track information required to place Lot 50 Georgia Mills Plantation on your developer team 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 sole use of Pilot Development in acquiring permits under the Fast Track Program. All soil work has been approved by Judy Melville 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.

Lot 50 GA. Mills Plantation 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	280
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	32 gpm
Elevation head	Approx. 8.0'
Pressure head	3.0'
Friction head	1.1'
20% Contingency	2.4'
Total Head	14.5'
Pump Requirements	32 gpm @ 14.5' of head To be designed by installer. ICHD requires In line pump filter such as Sim Tech
Maximum Dosing Volume	230.4 gal -2.1 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	Yes
Repair System	**LP PPBPS**
Total Linear Feet	355
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.**

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	Blue	LPPPBPS	40	3.6				
2	Repair	White	LPPPBPS	40					
3	System	Red	LPPPBPS	70 endfed		16	16	1 per panel	5/32"
4	System	Red	LPPPBPS	70 endfed		16	16	1 per panel	5/32"
5	System	Blue	LPPPBPS	70 endfed		16	16	1 per panel	5/32"
6	System	Blue	LPPPBPS	70 endfed		16	16	1 per panel	5/32"
7	Repair	White	LPPPBPS	155					
8	Repair	Red	LPPPBPS	45					
9	Repair	Blue	LPPPBPS	25					
10	Repair	White	LPPPBPS	25					
11	Repair	Red	LPPPBPS	25	11.7				
						Total: 64	Total: 64 (1 in each panel turned up)		
				Total System: 280'					
				Total Repair: 355'					

Tank	Red	1000 gal (2 compartment)	3.0
Pump Tank	Red	1000 gal.	3.0
House	Blue	Right Rear	4.4

Note: Fill all minor gullies.