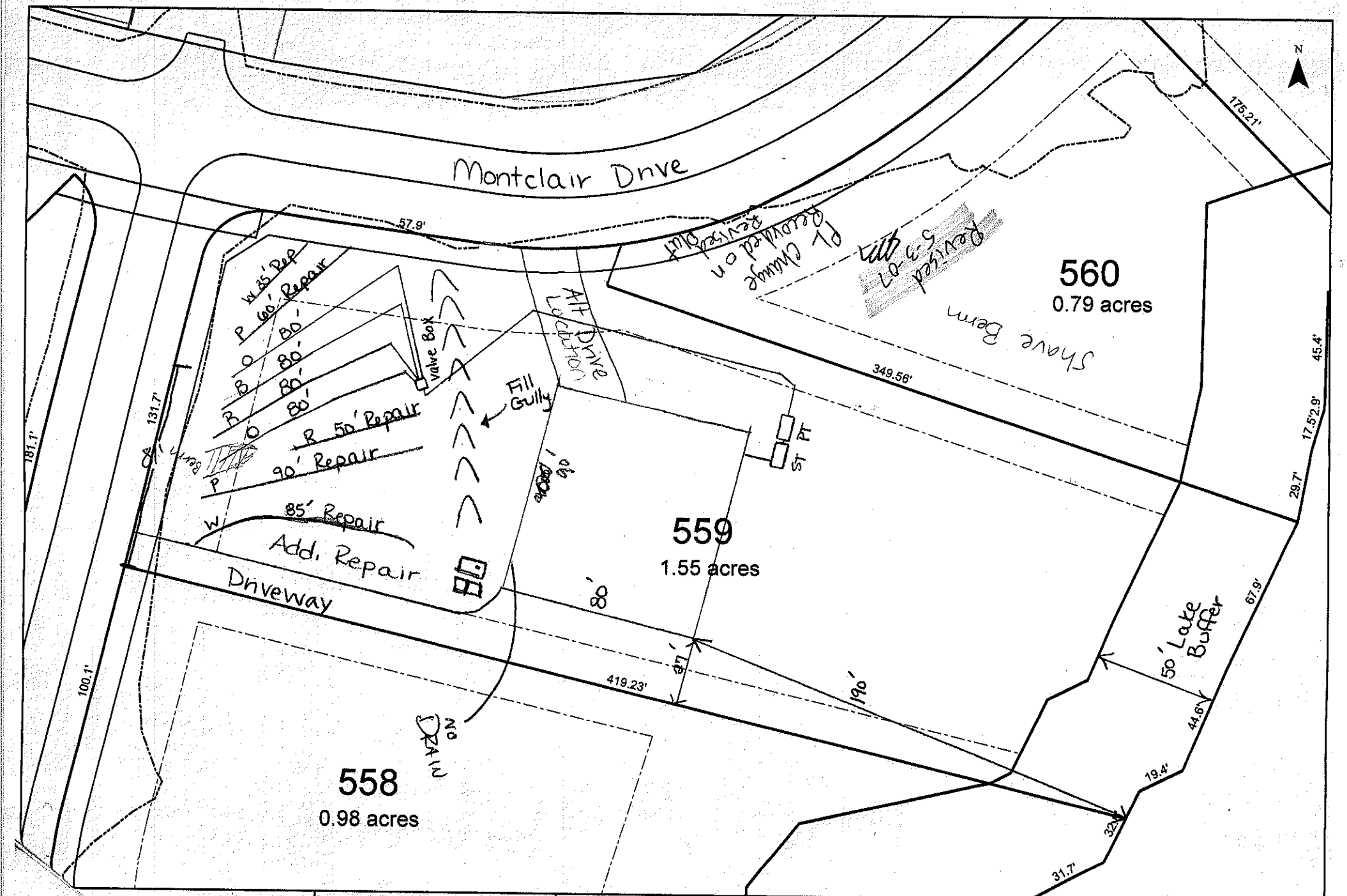


Scale: 1 inch equals 50 feet	S&ME	The Farms - Phase V	FIGURE
Drawn by: JBP		Lot 559	1
Reviewed by: KS		Iredell County, NC	
Date: February, 2007	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	S&ME Project #1588-05-070	

Lot 559 The Farms Fast Track Septic System Information

Number of Bedrooms	4
Basement or Crawl	**Basement w/ Plumbing**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.25
Primary System Type	**LP PPBPS**
No. Lines	4 (See Table)
Total Linear Feet	320
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	185' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	36 gpm 73/2 min 36.5
Elevation head	Approx. 25'
Pressure head	3.0'
Friction head	4.0'
20% Contingency	6.4'
Total Head	38.4'
Pump Requirements	36 gpm @ 38.4' of head
Maximum Dosing Volume	259.2 gal -1.9 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	320
Repair Area LTAR	0.25

***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	White	LPPPBPS	35	820.0				
2	Repair	Pink	LPPPBPS	60					
3	System	Orange	LPPPBPS	80 endfed		18	18	1 per panel	5/32"
4	System	Blue	LPPPBPS	80 endfed		18	18	1 per panel	5/32"
5	System	Red	LPPPBPS	80 endfed		18	18	1 per panel	5/32"
6	System	Orange	LPPPBPS	80 endfed		18	18	1 per panel	5/32"
7	Repair	Red	LPPPBPS	50					
8	Repair	Pink	LPPPBPS	90					
9	Repair	White	LPPPBPS	80	813.0				
						Total: 72	Total: 72 (1 in each panel turned up)		
				Total System: 320'					
				Total Repair: 320'					

Tank	Red	1500 gal (2 compartment)	801.0
Pump Tank	Red	1500 gal.	801.0
House	Blue		805.0

Note: Fill all minor gullies. Elevations taken from 1 ft. site specific topography map and should be verified before obtaining an ATC.

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: Farms V — APPLICATION DATE: _____
ADDRESS: _____ — DATE EVALUATED: _____
PROPOSED FACILITY: House — PROPOSED DESIGN FLOW (.1949): 480 — PROPERTY SIZE: _____
LOCATION OF SITE: Lot 559 — PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☒ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut — TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1948 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	.1949 SOIL DEPTH	.1956 SAPRO CLASS	.1944 REDOX	
1	AB#1 L	0-6	WK SBK SCL	FR SS/SP	Br Red	Fyel Br in Root channels			0.25 to 43"
		6-43	Mo SBK C	Fi/FR SS/SP					
		43"	Quartz						
2		0-6	mgn sbk	vfr nonp					.3
		6-40	mdm sbk c	fr SS SP	few relic mottles common hard chalk				
		40-52	WK SBK cl	fr SS SP	common stained				
3	9%	0-9	WK SBK fsl	fr SS SP					.3
		9-36	MM ABK red c	fr SS SP	few relic mottles				
		36-50	WK SBK red cl	fr SS SP	common sap				
4		0-5	WK SBK scl	fr SS SP					.3
		5-31	MOD SBK C	fr SS SP					
		31-52	WK SBK cl	fr SS SP	few common sap				

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

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

COMMENTS: _____

(5) 0-17 mgp brsd sl frmsmp .3
17-33 wk-mssbkedc frsssp sgcp
33-55 wk sbk-sbkedc frsssp few. common rootsmp

560
559
MONT CLAIR DRIVE
NV-80112
SDALE LANE
Drive
1/2 on.