S&ME

3-1-06
OK DH

To: Iredell County Environmental Health Department

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

RE: Rocky Ridge Farm Subdivision – Dienst Enterprises – Lot 36 Fast Track

Date: February 22, 2006

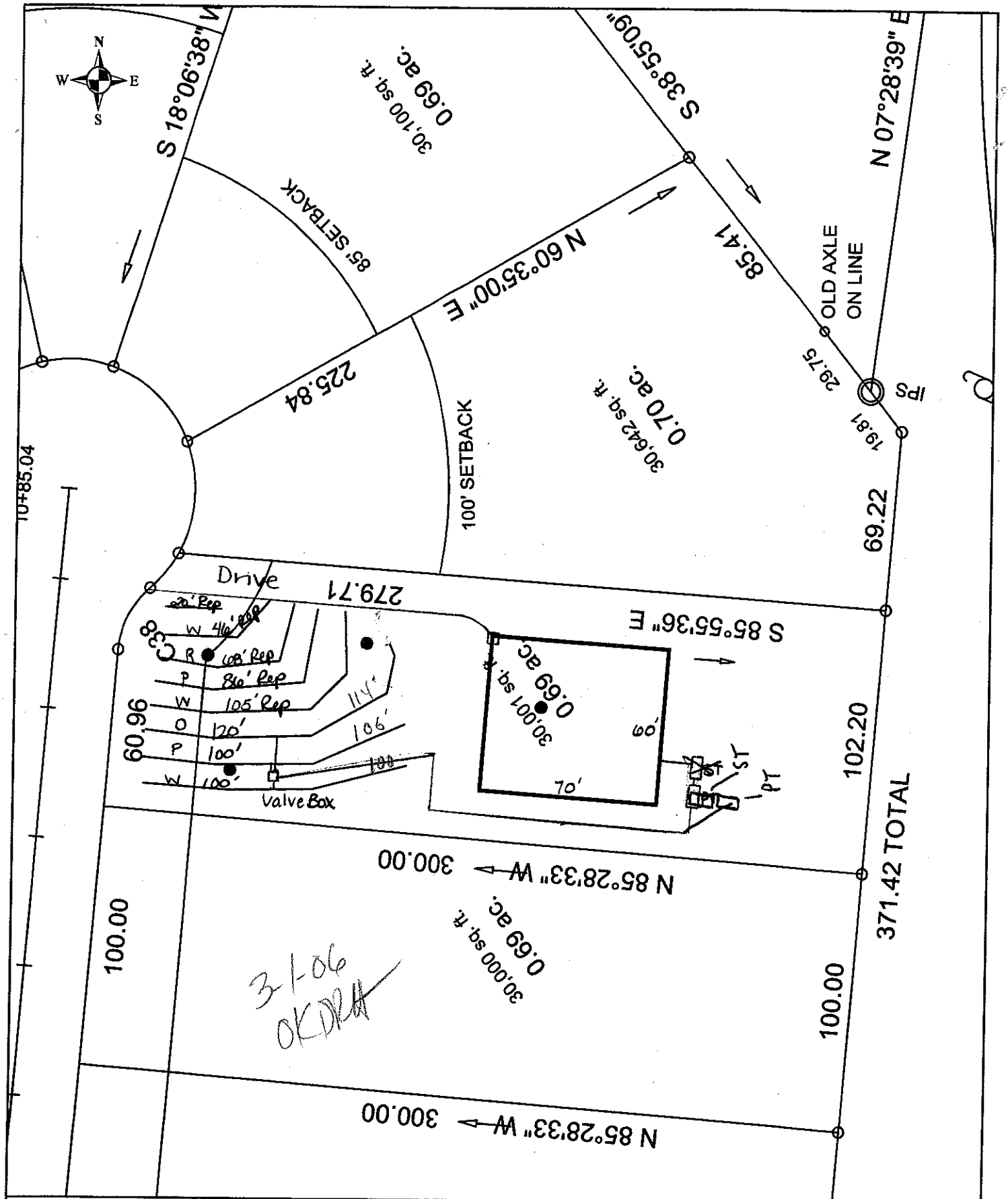
Attached is the Fast Track information required to place Lot 36 Rocky Ridge Farm on your developer work list to review the septic system layouts. Please call when you are ready to review the lot and we will meet you on the site.

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 sole use of Bob Dienst of Dienst Enterprises 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, North Carolina 28115-7899

(704) 662-8625
(704) 662-8735 fax
www.smeinc.com



Scale: 1 inch equals 50 feet	S&ME	Rocky Ridge - Lot 36	FIGURE
Drawn by: JBP		Scaled Detailed Site Plan	1
Reviewed by: PGP		Iredell County, NC	
Date: February, 2006	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	S&ME Project #1588-05-081	

Lot 36 Rocky Ridge Farms Fast Track Septic System Information

Number of Bedrooms	4
Basement or Crawl	Crawl Space
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.25
Primary System Type	**LP PPBPS**
No. Lines	3 (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	195' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	36.5 gpm
Elevation head	Approx. 10.5'
Pressure head	3.0'
Friction head	4.8'
20% Contingency	3.7'
Total Head	22'
Pump Requirements	36.5 gpm @ 22' of head; use Goulds WE05H pump or equivelent with compatible electrical
Dosing Volume	262.8 gal -1.8 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	325

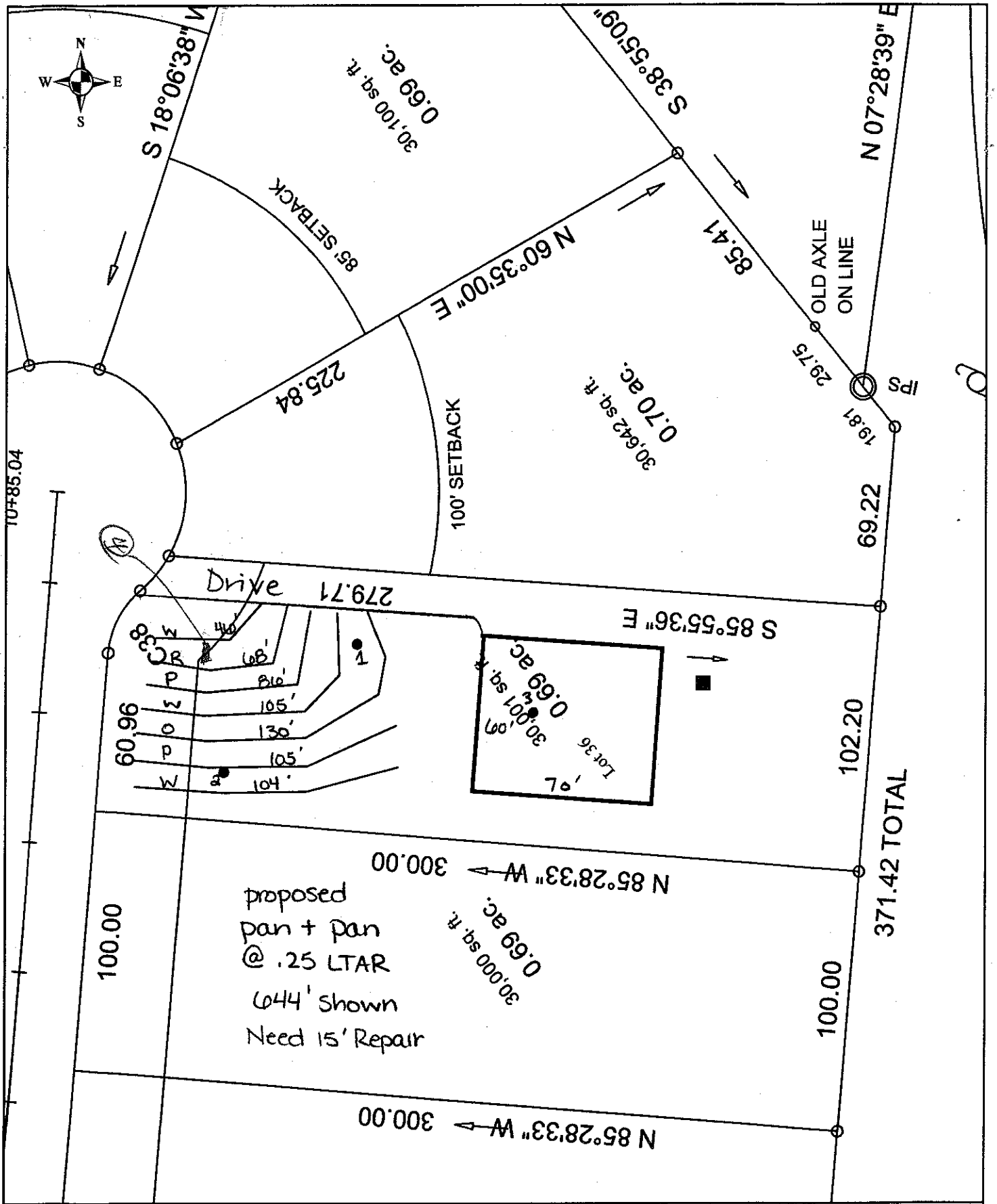
***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**

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	T	LPPPBPS	20					
2	Repair	White	LPPPBPS	46	3.1				
3	Repair	Red	LPPPBPS	68					
4	Repair	Pink	LPPPBPS	86					
5	Repair	White	LPPPBPS	105					
6	System	Orange	LPPPBPS	120 centerfed		27	27	1 per panel	5/32"
7	System	Pink	LPPPBPS	100 centerfed		23	23	1 per panel	5/32"
8	System	White	LPPPBPS	100 centerfed	5.2	23	23	1 per panel	5/32"
						Total: 73	Total: 73 (1 in each panel turned up)		
				Total System: 320'					
				Total Repair: 325'					

Tank	White	1500 gal (2 compartment)	7.6
Pump Tank	White	1500 gal.	7.6
House	Blue		5.6

Note: Line 1 not located in field. "T" is Theoretical



Scale: 1 inch equals 50 feet	S&ME	Rocky Ridge - Lot 36	FIGURE
Drawn by: JBP		Scaled Detailed Site Plan	1
Reviewed by: PGP		Iredell County, NC	
Date: January, 2006	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	S&ME Project #1588-05-081	

ENT OF ENVIRONMENT AND NATURAL RESOURCES
N OF ENVIRONMENTAL HEALTH
E WASTEWATER SECTION

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

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Rocky Ridge
ADDRESS: _____ APPLICATION DATE _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ DATE EVALUATED: _____
LOCATION OF SITE: Lot 360 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	
1	L 0-2 0/0	0-7	wsbk scl	SS SP Fr	Br				.35
		7-49	msbk c	SS SP Fr	R C	YB mottles	(drain)		
2	L 0-2 0/0 4% S	0-11	wsbk scl	SS SP Fr	Br				.3
		11-50	M/Sbk c	SS SP Fr	R				
3	L	0-9	WK SBK SCL	FR SS/SP	Br				.25-.3
		9-30	M SBK/ABK C	Fi S/P	Red; FF yel Br				
		30-48	M SBK CL	FR SS/SP	Red; C sap				
4	2-6-0%	0-8	wksbk sl	fr sss p					.3
	R.S	8-28	M SBK Red C	fr sss p SSP	fw imp				
	2%	28-48	wk SBK Red cl	fr ss sp					
				common mottles					

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: _____