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3-1-06

To: Iredell County Environmental Health Department

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

RE: Rocky Ridge Farm Subdivision – Dienst Enterprises – Lot 39 Fast Track

Date: February 22, 2006

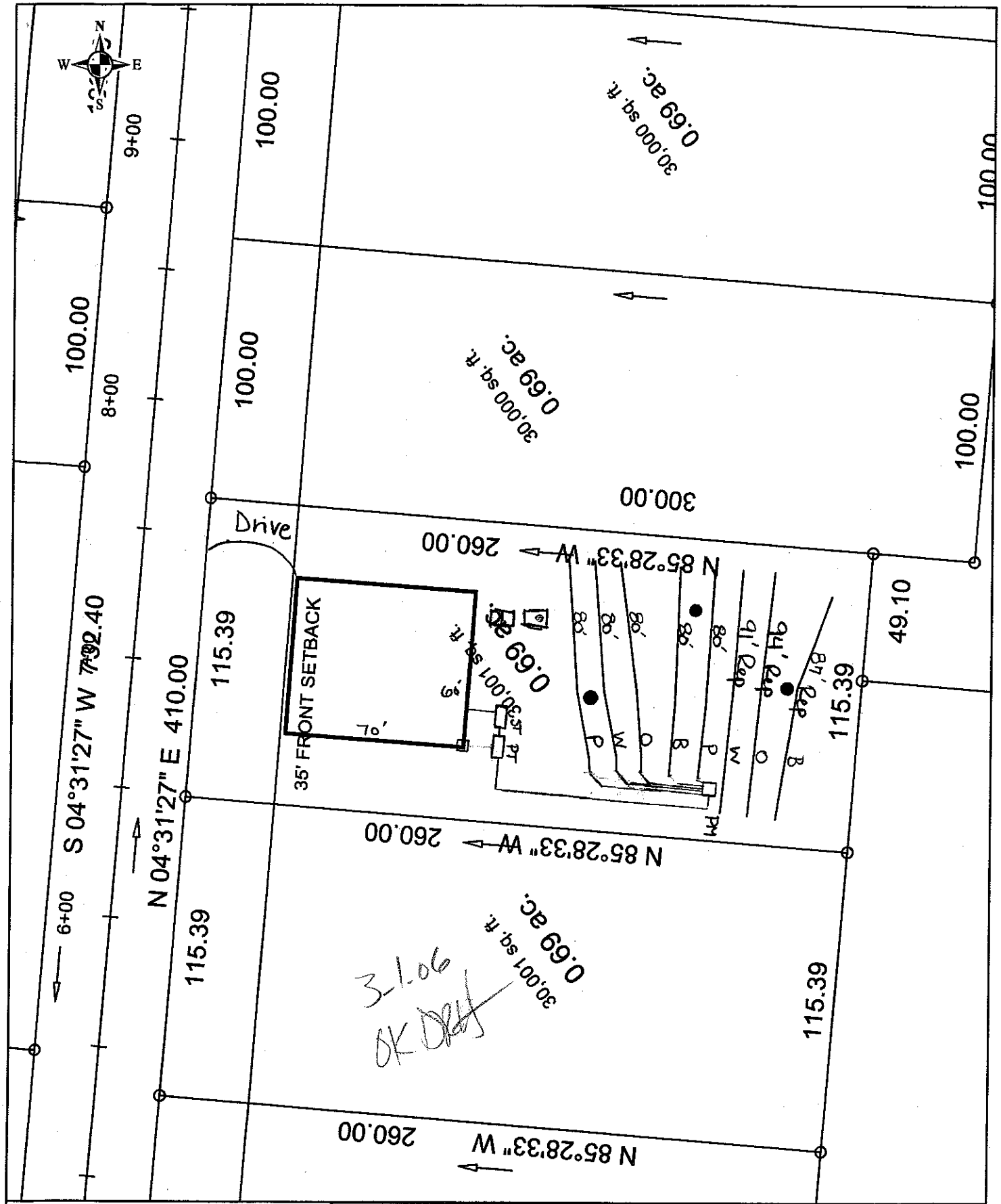
Attached is the Fast Track information required to place Lot 39 Rocky Ridge Farm on your developer work list to review the septic system layouts. Please call when you are ready to review the lot and we will meet you on the site.

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.

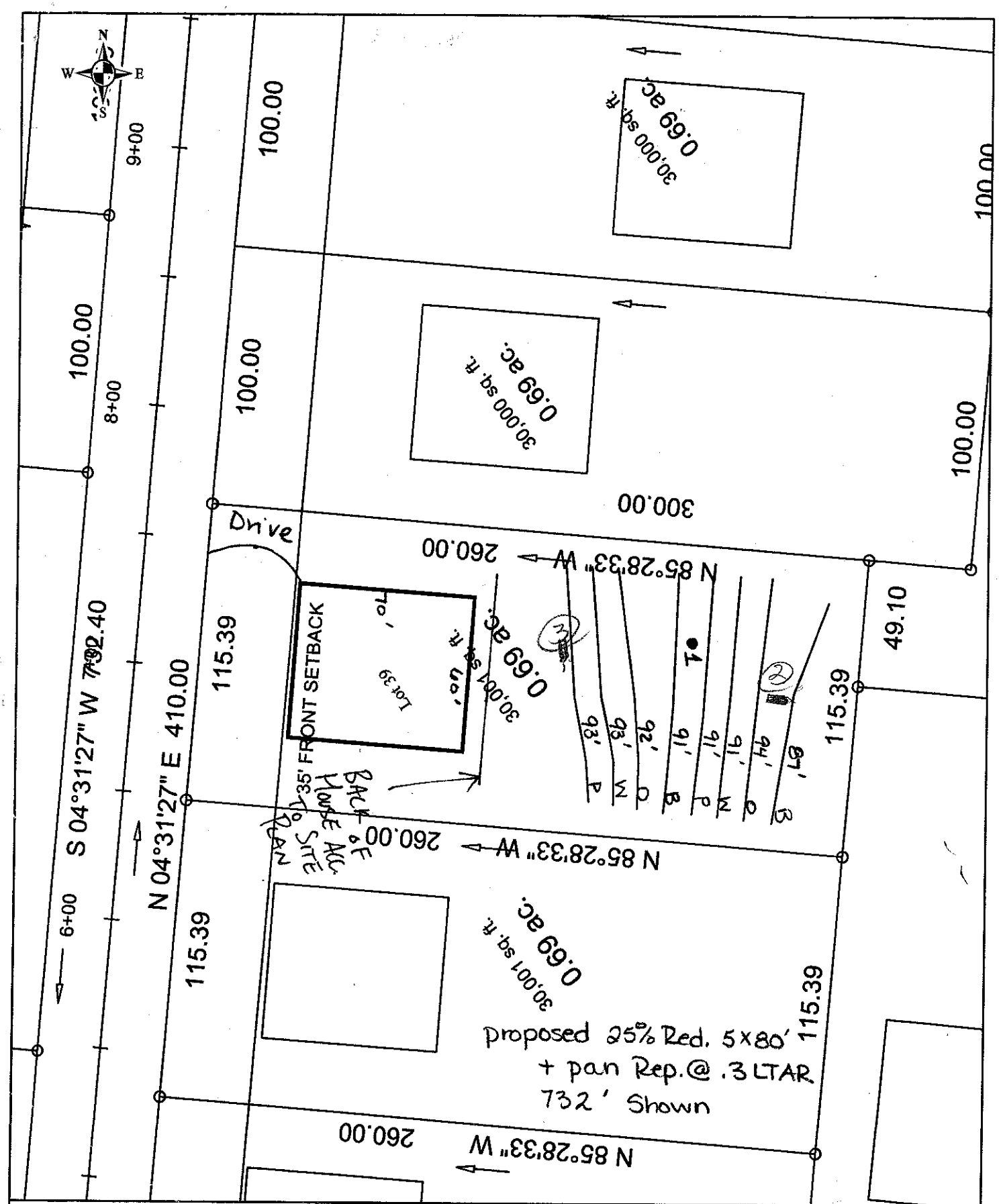
All information and specifications were prepared in conjunction with the Fast Track Program for Iredell County and are for the sole use of Bob Dienst of Dienst Enterprises in acquiring permits under the Fast Track Program. All soil work has been approved by David Hinson of the Iredell County Health Department.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

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Scale: 1 inch equals 50 feet	S&ME	Rocky Ridge - Lot 39	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	



Scale: 1 inch equals 50 feet	S&ME	Rocky Ridge - Lot 39	FIGURE
Drawn by: JBP		Scaled Detailed Site Plan	1
Reviewed by: PGP		Iredell County, NC	
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Lot 39 Rocky Ridge Farm Fast Track Septic System Information

Number of Bedrooms	**4**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	5 (See Table)
Total Linear Feet	400
Trench Width	3' min.
Trench Spacing	9' min.
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	100' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	27.5 gpm
Elevation head	Approx. 13.9'
Pressure head	2.0'
Friction head	1.4'
20% Contingency	3.5'
Total Head	20.8'
Pump Requirements	27.5 gpm @ 21' of head; use Goulds WE03M pump or equivelent with compatible electrical
Dosing Volume	240 gal -2.0 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. 8.7 min.
Check Valve	No
Siphon Break hole	Yes
Repair System	**LP PPBPS**
Total Linear Feet	272
Repair Loading Rate	0.3

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elevation (Ft.)
1	Repair	Blue	LPPPBPS	87	2.7
2	Repair	Orange	LPPPBPS	94	
3	Repair	White	LPPPBPS	91	
4	System	Pink	25% Reduction	80 endfed	
5	System	Blue	25% Reduction	80 endfed	
6	System	Orange	25% Reduction	80 endfed	
7	System	White	25% Reduction	80 endfed	
8	System	Pink	25% Reduction	80 endfed	9
				Total System: 400'	
				Total Repair: 272'	

Tank	Red	1500 gal (2 compartment)	10.6
Pump Tank	Red	1500 gal.	10.6
House	Blue		12.2

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	5
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

MENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
ON OF ENVIRONMENTAL HEALTH
ITE WASTEWATER SECTION

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

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Rocky Ridge APPLICANT: ___
ADDRESS: ___ APPLICATION DATE: ___ DATE EVALUATED: ___
PROPOSED FACILITY: House PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE: ___
LOCATION OF SITE: Lot 39 PROPERTY RECORDED: ___
WATER SUPPLY: ☐ Private ☒ Public ☒ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LAND-SCAPE POSITION/ SLOPE %	HORI-ZON 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
AH 1	L	0-5	Mo GR SL	FR SS/SP	Br				
		5-23	Mo SBK C	FR SS/SP	Red; F	sap			
		23-44	WK SBK CL	FR SS/SP	Red; C	sap			.3
2	2-6-06 5% S/V	0-7	mgr brn SL	fr SS SP					
		7-28	MSBK Red C	fr SS SP sap					.3
		28-52	WK SBK Red C	fr SS SP					
			Commonwealth sap						
3	9% V	0-6	gr Brn SL	fr SS SP					
		6-25	mk SBK Red C	fr SS SP SP					.3
		25-58	WK SBK Red C + SAP	fr SS SP					
4									

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

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: ___