S&ME

To: Iredell County Environmental Health

From: Paul G. Penninger, LSS
Patrick Mitchell, RS, LSS-IT

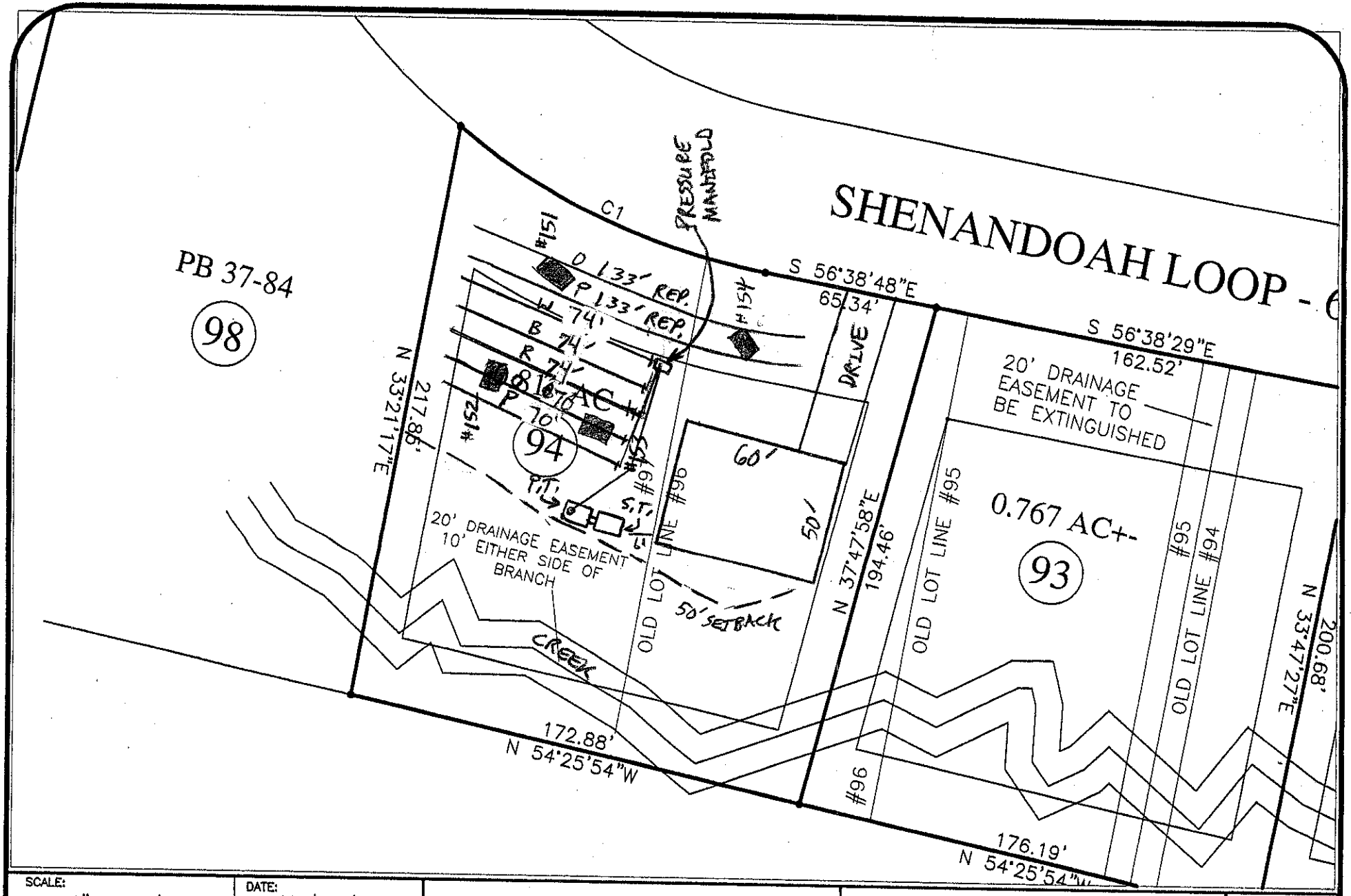
RE: Meadow Glen Subdivision – DPG Properties, LLC – Lot 94 Fast Track

Date: March 27, 2008

Attached is the Fast Track information required to place Lot 94 in Meadow Glen Subdivision on your fast track 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 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 DPG Properties, LLC in acquiring permits under the Fast Track Program. It is ultimately the Iredell County Health Department's responsibility to verify all specifications before permitting and/or septic system installation.



SCALE:	DATE:			
1" = 50'	03/20/2008	S&ME	Lot 94	FIGURE NO.
PROJECT NO. 1588-08-015	DRAWN BY: PLM	3718 OLD BATTLEGROUND ROAD GREENSBORO, NC 27410 PH. 336-288-7180 FAX. 336-288-8980 WWW.SMEINC.COM	Meadow Glen Subdivision Iredell County, NC	1
	CHECKED BY: PGP			

Lot 94 Meadow Glen Subdivision Fast Track Septic System Information

Number of Bedrooms	**3**
Basement or Crawl	**Basement w/ Plumbing**
Design Flow (gpd)	**360**
Primary System LTAR (gpd/ft2)	**0.25**
Primary System Type	**25% Reduction**
No. Lines	5 (See Table)
Total Linear Feet	360'
Trench Width	3' min.
Trench Spacing	9' min.
Max Trench Depth	**24"**
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	~65' of 2" SCH 40 PVC
Flow Rate through the system	27.5 gpm
Elevation head	21'
Pressure head	2.0'
Friction head	1.0'
20% Contingency	1.0'
Total Head	25'
Pump Requirements	27.5 gpm @ 25' of head ***To be designed by installer**
Maximum Dosing Volume	168 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. 6.2 min.
Check Valve	No
Siphon Break hole	Yes
Repair System	**LP PPBPS**
Total Linear Feet	266'
Repair Loading Rate	0.25 240' Required

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	Orange	LP PPBPS	133'	15'
2	Repair	Pink	LP PPBPS	133'	
3	**System**	**White**	**25% Reduction**	**72'**	
4	**System**	**Blue**	**25% Reduction**	**72'**	
5	**System**	**Red**	**25% Reduction**	**72'**	
6	**System**	**Orange**	**25% Reduction**	**72'**	
7	**System**	**Pink**	**25% Reduction**	**72'**	4'
				Total System: 360'	
				Total Repair: 266'	

Tank	Orange	1000 gal (2 compartment)	
Pump Tank	Orange	1000 gal.	0'
House	Blue	Front Left Corner	10'

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

*** Pump specifications should be verified by installer**

NOTE:
1) Use Max trench depth of 24" for initial system and 36" for repair LP PPBPS

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: DPG Properties, LLC — APPLICATION DATE ____
ADDRESS: ____ — DATE EVALUATED: ____
PROPOSED FACILITY: 3 BR SFD — PROPOSED DESIGN FLOW (.1949): 360 GPD — PROPERTY SIZE: ____
LOCATION OF SITE: LOT 94 Meadow Glen Subdivision — PROPERTY RECORDED: ____
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other ____
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut — TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixe

PROFILE #	.1948 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	#151	0-5	Mo, Gr, SL	VFr, NS, NP					
		5-40	Mo, Sbk, C	Fr, SS, SP					
		40-60	WK, Sbk, C/CL	Fr, SS, SP	F-C Sap. Inclus.				0,30
2	#154	0-8	Mo, Gr, SL	VFr, NS, NP					
		8-26	Mo/WK, Sbk, C	Fr, SS, SP	F-Y/B Mottles				
		26-46	WK, Sbk, C	Fr, SS, SP	C-Y/B				0,25
		46+	Water in pit unable to describe.						
3	#153	0-7	Mo, Gr, SL	VFr, NS, NP					
		7-27	Mo, Sbk, SC/C	Fr, SS, SP					<36" 0,25
		27-36	WK, Sbk, C	Fr, SS, SP	C-Y/B				
		36-52	WK, Sbk, C	Fr, SS, SP	C-Y/B + Gray Mottles				>36" US
4	#152 off #20	0-7	Mo, Gr, SL	VFr, NS, NP					
		7-36	Mo, Sbk, SC	Fr, SS, SP					<36" 0,25-0,30
		36-61	WK, Sbk, CL	Fr, SS, SP	C-Y/B + F-Chroma 3/4+ @ 42"+				
									>36" 0,20-0,225

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: ____