ROLLANS *SOIL & ENVIRONMENTAL SERVICES*

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Attached is a proposed design for a MODIFIED (PPBPS) Septic System with Gravity distribution for a 4 bedroom single family residence on Lot #44 Norman Woods Subdivision, Iredell County, North Carolina.

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June 16, 2006
Design By: Rollans Soil and Environmental Services

Gravity PPBPS
FOR WASTEWATER TREATMENT

Owner: PRIDE HOMES

Address: 578 NORMANDY RD.
Mooresville, NC 28117

Phone: 704-664-1808

County: Iredell

Location: Norman Woods Subdivision Lot #44

Source of Wastewater Flow: 4 Bedroom Single Family Residence

Estimated Daily Wastewater Production: 480 gpd

System Flow: NA

Design Specifications

Drainfield Size: 320

Loading Rate: 0.25

Depth of Gravel in Trench: NA (PPBPS)

Gravel Size: NA (PPBPS)

Trench Depth: 36 in.

Trench Width: 24 in.

Septic Tank Size: 1000

Pump Tank Size: NA

Estimated Supply Line Length: 5

Supply Line Diameter: 3 in. SCH 40 PVC

Supply Line Volume: 0.87

Dosing Volume: NA

Supply Manifold: D-BOX

Supply Manifold Length: NA

Supply Manifold Volume: N/A

Recommended Float Controls: NA

Recommended Control Panel: NA

Pressure Head: NA

Friction Head: NA

Elevation Head: NA

Total Dynamic Head: NA

Threaded Union: NA

Gate Valves: NA
NA

Check Valves: NA

Anti-Siphon Hole: NA

Additional Comments: Soil suitability was performed by Rollans Soil & Environmental Services.

NORMAN WOODS LOT 44

LAYOUT FOR 4 BEDROOM HOME

June 16, 2006

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		N/A			100.00		
TANK		N/A	N/A				
HOUSE		N/A	N/A				
INSTR. 1			N/A				
1	***PINK***			***N/A***	***N/A***	***40***	***40***
2	***RED***			***N/A***	***N/A***	***40***	***40***
3	***BLUE***			***N/A***	***N/A***	***40***	***40***
4	***ORANGE***			***N/A***	***N/A***	***40***	***40***
5	***PINK***			***N/A***	***N/A***	***40***	***40***
6	***RED***			***N/A***	***N/A***	***40***	***40***
7	***BLUE***			***N/A***	***N/A***	***40***	***40***
8	***ORANGE***			***N/A***	***N/A***	***40***	***40***
9	PINK			N/A	N/A	***40***	***40***
					Total	**360**	**360**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
** System*	*320*	*0.25*	*MOD.*	*0.25*	***PPBPS***	**GRAVITY**
Repair	120	0.25	*MOD.*	0.25	PPBPS	**DISTRIBUTION** NOT REQUIRED

Notes:
** TBM NOT REQUIRED
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS, HI, and FS indicate rod readings

TAPSHEET - NORMAN WOODS LOT 44

SYSTEM

Line #	Color	Elevation	Length	Hole Size	# of Panels	gpd
1	***PINK***	N/A	**40**	N/A	**10**	N/A
2	***RED***	N/A	**40**	N/A	**10**	N/A
3	***BLUE***	N/A	**40**	N/A	**10**	N/A
4	***ORANGE***	N/A	**40**	N/A	**10**	N/A
5	***PINK***	N/A	**40**	N/A	**10**	N/A
6	***RED***	N/A	**40**	N/A	**10**	N/A
7	***BLUE***	N/A	**40**	N/A	**10**	N/A
8	***ORANGE***	N/A	**40**	N/A	**10**	N/A
	total	**feet =**	**320**	**gal/min =**	N/A	
			Des. Flow	N/A		
			Pump Run=	N/A		
			soil LTAR	**0.3**		
			LTAR +5%	**0.315**		
			LTAR with ACCEPTED	**0.4**		
			LTAR with ACCEPTED + 5%	**0.42**		