Look @ Pits
12-17-12

Carolina Soil & Septic Consulting, PLLC

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Certified Septic Inspector

Proposed *REDRAW* Design for a 25% Reduction Septic System using Gravity distribution for a 4 bedroom single family residence on Lot 2 of Balmoral Park on Tuskarora Trail in Mooresville, Iredell County, North Carolina.

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December 15, 2012
Design By: Adrian L. Pruett

OWNER INFORMATION

Owner:	Jason Slagle
Address:	840 Edmiston Rd Mt. Ulla, NC 28125
Phone:	704-400-6472
County:	Iredell
Location:	TUSKARORA TRAIL, BALMORAL PARK LOT 2
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	480
System Flow:	NA

25% GRAVITY DESIGN INFORMATION

Drainfield Design Flow (gpd):	400
Loading/Soil Application Rate (gpd/ft.^{2}):	0.30
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Total Lateral Length From Layout:	400
Total Lateral Length Required:	400
Trench Depth:	**40 in.**
Trench Width:	36 in.
TOTAL AREA TRENCH BOTTOM:	1200
Septic Tank Size:	1000
Estimated Supply Line Length:	7.5
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	2.70
Dosing Volume:	NA
Supply Manifold:	SERIAL DISTRIBUTION
Additional Comments:	Soil suitability was performed by Adrian L. Pruett LSS

TUSKARORA TRAIL, BALMORAL PARK LOT 2
FIELD LAYOUT REDRAW SPECIFICATIONS

LAYOUT FOR 4 BEDROOM RESIDENCE

December 15, 2012

LINE #	FLAG COLOR	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM			NA		
HOUSE CRN		NA	NA		
P. TANK		NA	NA		
1	***BLUE***	***NA***	***NA***	***30***	***30***
2	***PINK***	***NA***	***NA***	***68***	***68***
3	***ORANGE***	***NA***	***NA***	***94***	***94***
4	***BLUE***	***NA***	***NA***	***100***	***100***
5	PINK	NA	NA	63	63
6	***ORANGE***	***NA***	***NA***	***108***	***108***
7	PINK	NA	NA	109	109
8	BLUE	NA	NA	91	91
9	YELLOW	NA	NA	22	22
			Total	**685**	**685**

System	LINE LENGTH *400*	SYSTEM TYPE *ACCEPT.*	SOIL LTAR GPD/FT^2 *0.30*	TRENCH SYSTEM *25% RED.*	DISTRIBUTION *GRAVITY*
Repair	285	*MOD.*	0.30	PPBPS	LOW PRESSURE

Notes:

** TBM Is Not Required.

**All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

DOSING CALCULATIONS

Location BALMORAL PARK

Lot No: Lot 2

No. of Bedrooms 4

Design Flow 480 $^{gal}/_{day}$

LTAR 0.30 $^{gal}/_{ft^2\ day}$

25% RED. Expansion? (YES OR NO) YES

Supply Line Length 7.5 ft.

Supply Line Volume 2.7 gal.

Required Feet of 25% RED. Line 400 ft.
Amount of Line from Layout 400 ft.

Gallons per Minute NA $^{gal}/_{min}$

Septic Tank Capacity 1000 gal.
Minimum Septic Tank Capacity 1000

Lateral Line Volume 261.2 gal.