FOR WASTEWATER TREATMENT

Owner:	Ryon-West Developers
Address:	127B Promenade Dr. Mooresville, NC 28117
Phone:	704 361 1084
County:	Iredell
Location:	BELLS CROSSING LOT 69
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	480 gpd
System Flow:	N/A

Design Specifications

Drainfield Size:	450
Loading Rate:	0.275
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Trench Depth:	36 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	N/A
Estimated Supply Line Length:	6
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	1.04
Dosing Volume:	N/A
Supply Manifold:	DROP BOX
Supply Manifold Length:	N/A
Supply Manifold Volume:	N/A
Recommended Float Controls:	N/A N/A
Recommended Control Panel:	N/A N/A
Pressure Head:	N/A
Friction Head:	N/A
Elevation Head:	N/A
Total Dynamic Head:	N/A
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.

BELLS CROSSING LOT 69
PRESSURE MANIFOLD DESIGN

DESIGN FLOW:	480	
SOIL APPLICATION RATE:	0.275	
TOTAL AREA TRENCH BOTTOM:	1350	
TOTAL LATERAL LENGTH:	450	
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	436.3636364	
SUPPLY LINE LENGTH:	6	
TOTAL DYNAMIC HEAD:	N/A	
MANIFOLD SIZE:	N/A	
DOSING VOLUME:	N/A	
PUMP TANK DRAW DOWN*:	N/A	
SEPTIC TANK SIZE:		1000
PUMP TANK SIZE:	N/A	

BELLS CROSSING LOT # 69

Project #: 01-1429

LAYOUT FOR 4 BEDROOM HOME

May 7, 2008

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		N/A			N/A		
INSTR. 1			N/A				
HOUSE CNR				N/A	N/A		
P. TANK				N/A	N/A		
1	ORANGE			N/A	N/A	29	29
2	BLUE			N/A	N/A	48	48
3	PINK			N/A	N/A	65	65
4	***RED***			***N/A***	***N/A***	***81***	***80***
5	***ORANGE***			***N/A***	***N/A***	***100***	***100***
6	***BLUE***			***N/A***	***N/A***	***120***	***120***
7	***PINK***			***N/A***	***N/A***	***153***	***150***
8	RED			N/A	N/A	106	106
9	ORANGE			N/A	N/A	55	55
					Total	**757**	**753**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***450***	***0.275***	***ACCEPT.***	***0.275***	***25% RED.***	**GRAVITY DISTRIBUTION**
Repair	303	0.275	MOD.	0.275	PPBPS	LOW PRESSURE

Notes:

** TBM located on angle point of lot (see site plan)
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS, HI, and FS indicate rod readings