FOR WASTEWATER TREATMENT

Owner:	Bells Crossing, LLC
Address:	127B Promenade Dr. Mooresville, NC 28117
Phone:	704 361 1084
County:	Iredell
Location:	BELLS CROSSING LOT 207
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	480 gpd
System Flow:	N/A

Design Specifications

Drainfield Size:	533
Loading Rate:	0.225
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Trench Depth:	27 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	N/A
Estimated Supply Line Length:	17
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	2.96
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 207
GRAVITY DISTRIBUTION DESIGN

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.225
TOTAL AREA TRENCH BOTTOM:	1599
TOTAL LATERAL LENGTH:	533
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	533.3333333
SUPPLY LINE LENGTH:	17
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 # 207

Project #: 01-1429

LAYOUT FOR 4 BEDROOM HOME

August 8, 2008

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		4.7			100.00		
INSTR. 1			104.70				
HOUSE CNR				5.20	99.50		
P. TANK				9.90	94.80		
1	DARK PINK			5.10	99.60	100	100
2	ORANGE			5.30	99.40	100	100
3	BLUE			5.20	99.50	100	100
4	PINK			6.80	97.90	100	100
5	***DARK PINK***			***7.80***	***96.90***	***101***	***101***
6	***ORANGE***			***8.50***	***96.20***	***105***	***105***
7	***BLUE***			***9.30***	***95.40***	***107***	***107***
8	***PINK***			***9.20***	***95.50***	***109***	***109***
9	***DARK PINK***			***9.90***	***94.80***	***111***	***111***
					Total	**933**	**933**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***533***	***0.225***	***ACCEPT.***	***0.225***	***25% RED.***	~~PRESSURE~~ DRIP BOX ~~MANIFOLD~~
Repair	400 (355)	0.225	*MOD.*	0.225	PPBPS	LOW PRESSURE

Notes:

** TBM located on top of ground @lot corner (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