FOR WASTEWATER TREATMENT

Owner:	Anniston LLC
Address:	17825 Statesville Rd. Suite 112 Cornelius, NC 28031
Phone:	
County:	Iredell
Location:	ANNISTON Lot # 127
Source of Wastewater Flow:	5 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	600 gpd
System Flow:	N/A

Design Specifications

Drainfield Size:	500
Loading Rate:	0.3
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Trench Depth:	36 in.
Trench Width:	36 in.
Septic Tank Size:	1500 gal.
Pump Tank Size:	N/A
Estimated Supply Line Length:	7
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	1.22
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.

ANNISTON Lot # 127
GRAVITY DISTRIBUTION DESIGN

DESIGN FLOW:	600
SOIL APPLICATION RATE:	0.3
TOTAL AREA TRENCH BOTTOM:	1500
TOTAL LATERAL LENGTH:	500
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	500
SUPPLY LINE LENGTH:	7
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1500 gal.
PUMP TANK SIZE:	N/A

**Pump tank draw down based on a volume basis of 31 gallons per inch. Draw down may vary among pump tank manufacturers.*

ANNISTON LOT # 127

Project #: 01-1005

LAYOUT FOR 5 BEDROOM HOME

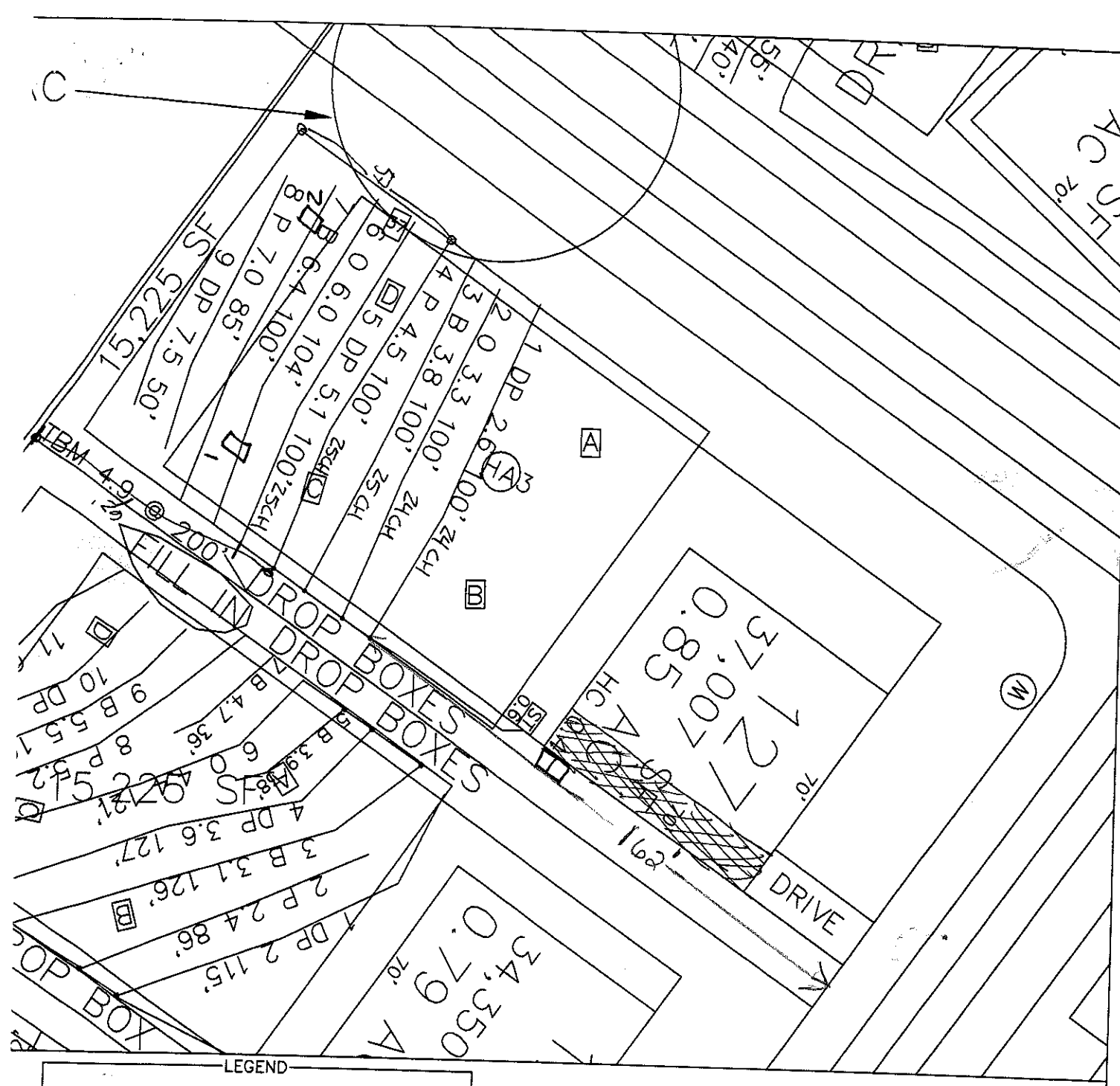
August 1, 2008

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	***DARK PINK***			*N/A*	*N/A*	***108***	***100***
2	***ORANGE***			*N/A*	*N/A*	***104***	***100***
3	***BLUE***			*N/A*	*N/A*	***106***	***100***
4	***PINK***			*N/A*	*N/A*	***106***	***100***
5	***DARK PINK***			*N/A*	*N/A*	***105***	***100***
6	ORANGE			N/A	N/A	104	104
7	BLUE			N/A	N/A	100	100
8	PINK			N/A	N/A	85	85
9	DARK PINK			N/A	N/A	50	50
					Total	**868**	**839**

* *System*	LINE LENGTH *500*	LTAR GPD/FT² *0.300*	SYSTEM TYPE *ACCEPT.*	SOIL LTAR GPD/FT² *0.300*	TRENCH SYSTEM *25% RED.*	DISTRIBUTION GRAVITY
Repair	339	0.300	*MOD.*	0.300	PPBPS	DISTRIBUTION 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



LEGEND

- Areas contain soils with 24 inches or more of useable material and have potential for conventional, modified conventional and low-pressure pipe (lpp) septic systems.
- House Footprint (All 70' x 70')
- System lines.
- Repair lines.
- TBM.
- Well Location.
- [A] RS&ES Pit Location.
- (25) RS&ES Boring Location.
- (28) Health Dept. Pit Location.

1-4-19
2001 #7

GRAPHIC SCALE
1" = 40'

40 0 40 80

FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE FINAL APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE, SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND COMPLEX TOPOGRAPHIC FEATURES. THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS.

PLEASE REFER TO ATTACHED SOIL REPORT FOR ADDITIONAL SITE SPECIFIC INFORMATION

ROLLANS SOIL & ENVIRONMENTAL SERVICES
470 NORTH BROAD ST., SUITE D
MOORESVILLE, NC 28115
PHONE: 704.658.1723 FAX: 704.658.1724
ASHLEY ROLLANS, NC LICENSED SOIL SCIENTIST
MOBILE: (704) 746 - 5046
EMAIL: ROLLANS@WINDSTREAM.NET

MAP TITLE: SITE PLAN & DRAINFIELD AREAS

LOCATION/DATE: SHEARER CHAPEL ROAD, IREDELL COUNTY, NORTH CAROLINA, JULY 2006

PROJECT NAME: NIBLOCK DEVEOPMENT CORP. / ANNISTON PHASE IV

JOB # : 01-1005
FILE: C:\JOBS\01-1005
PROJECT MGR.: S.A.R.
FIELD WORK: S.A.R.
DRAWN BY: S.A.R.

CALCULATIONS

Location ANNISTON PH4

Project Number 01-1005

Lot No: Lot 127

No. of Bedrooms 5

Design Flow 600 $^{gal}/_{day}$

LTAR 0.3 $^{gpd/ft^2}$

25% RED.? (YES OR NO) YES

Supply Line Length 7 ft.

Supply Line Volume 1.218 gal.

Required Feet of Line 500 ft.
Amount of Line from Layout 500 ft.

Gallons per Minute N/A $^{gal}/_{min}$

Required Septic Tank Capacity 1500 gal.
Minimum Standard Tank Size 1500 gal.

Lateral Line Volume 326.5 gal.

Dosing Volume N/A gal.

Note: Dosing Volume based on70% of lateral line volume

Tank Draw Down N/A *Generic Draw Down of 31 gal.per in.*

Pump Run Time N/A minutes

Elevation Head N/A ft.
Pressure Head N/A ft.
Friction Factor N/A ft./100 ft. *(From the interpolater.)*
Friction Head N/A ft.

Total Dynamic Head (+15%) N/A ft.

FRICTION FACTOR
INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet ____ of ____

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: _____
DATE OF EVALUATION: _____
COUNTY: _____

Anniston Phase II

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
P127A	L/0-5	0-15	RB cl wsbk	Fr SSS P SE xP	m, lithochromic colors (mineral) · f sap	58	–	–	PS > 36 0.25 36" Trench
		15-33	RC rw m Abk	" " " "					
		33-58	RY cl wf sbk/ALK	" " " "					
P127B	L/0-5	0-21	RB c rw m sbk/ALK	Fr SSS P SE xP	c, lithochr. slickensides · f. lithochr. · f. sap	58	–	–	PS > 36 0.225-0.25
		21-36	RC vw Abk	Fr SP S Exp					
		36-58	RY cl w m sbk/ALK	Fr SSS P SE xP					
P127C	L/0-5	0-27	RC m m sbk/ALK	Fr SSS P SE xP	f. sap	54	–	–	PS 0.3-.35
		27-54	RY cl w sbk	" " " "					
P127D	L/0-5	0-30	RC m m sbk/ALK	Fr SSS P SE xP	f sap	60	–	–	PS 0.3-.35
		30-60	RC cl w m sbk/ALK	" " " "					
P37	L/0-5	0-29	RC m m sbk/ALK	Fr SSS P 3 Exp	f-c sap	52	–	–	PS 0.3
		29-52	RC cl w m sbk	" " " "					
WA3	L/a-5	0-34	RB C w m Abk/sbk	Fr ss sp SE xP	vf. lithochr. · c sap				PS 0.275-0.3
		34-50	RY cl wf sbk	" " " "					

COMMENTS: _____

Kamryles — Weather Flash 954-858-3031

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 OF 1
PIN #: 4664-87-8627
Lot #: 127
Permit #: 212646
AppID:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: SHEA BUILDERS
Applicant: SAME
Address: 217 WALKING HORSE TR.
Date Evaluated: 2/25/2016
Proposed Facility: SFR
Design Flow (.1949) 480
Property Size: .85 AC
Location of Site: ANNISTON 127
Property Recorded: YES
Water Supply: [ ] Public [X] Individual [X] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
PIT 1	LINEAR 5%	0-28	RC,M,SBK	SS	NA	48"	NA WEATH. ROCK INC	48"+	.3
		28-48	RCL,W,SBK	SS					
PIT 2	LINEAR 5%	0-27	RC,M,SBK	SS	NA	54"	COMM SAP INC	54"+	.3
		27-54	RCL,W,SBK	SS					

Description	Initial System	Repair System
Available Space (.1945)		PS
System Type(s)		G-25% RED
Site LTAR		.3

Other Factors (.1946): EVALUATED REPAIR AREA ONLY
Soil Evaluation By: BEN ALDRIDGE
Others Present: GARY MCNEELY, DAVID BEAN
Site Classification (.1948): PS
Site Evaluation By: BEN ALDRIDGE
Others Present: GARY MCNEELY, DAVID BEAN