

CHATHAM COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH DIVISION

80 East Street • P. O. Box 130 • Pittsboro, NC 27312-0130
Phone (919) 542-8208 • Fax (919) 542-8288

OFFICE USE ONLY

TPN _____

Permit No. _____

Date _____

EHS _____

System Type _____

Improvement Permit for Wastewater Systems ARTICLE II-CHAPTER 130A OF THE NC GENERAL STATUTES

NEW REPAIR EXPANSION REVISED

An Improvement Permit is issued to Selinco, Ltd. for
a 5.80 acre site located Deer Mountain Lot 10
in Chatham County. It is specifically issued for the following facility:

Facility: Residential () Non-Residential ()
No. Bedrooms 4 No. Residents/Employees 8 max
Type Wastewater: Residential () Commercial ()
Initial System Type: I () II () III () IV () V () VI ()
Description _____

Type System: Shallow Conventional () LPP ()
Other Pump to Accepted 25% Reduction
Design Flow 480 GPGD Application Rate 275 GPD/ft²
Size Tank(s) w/Risers and Effluent Filter ST 1000 Gal PT 1000 Gal
Nitrification Line (Length/Width/Max Depth) 450' x 3' x 12"
6" cover required over system area

(On contour in approved septic area; sch. 40 PVC required over step-downs)
Repair System Type: I () II () III () IV () V () VI ()
Description Pump to Accepted 25% Reduction

Special Conditions _____

A plat with site plan showing specific location of the facility, the site for the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.

Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank. Solid PVC with elbows must be used to construct conveyance over dams or stepdowns.

This permit is valid [] without expiration [] for five years but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed. The Improvement Permit shall not be affected by change in ownership.

THIS IS NOT AUTHORIZATION TO INSTALL. An authorization for Wastewater Construction must be obtained from this department before installation.

Issued by Jean C. Ritter R.S.
Environmental Health Specialist

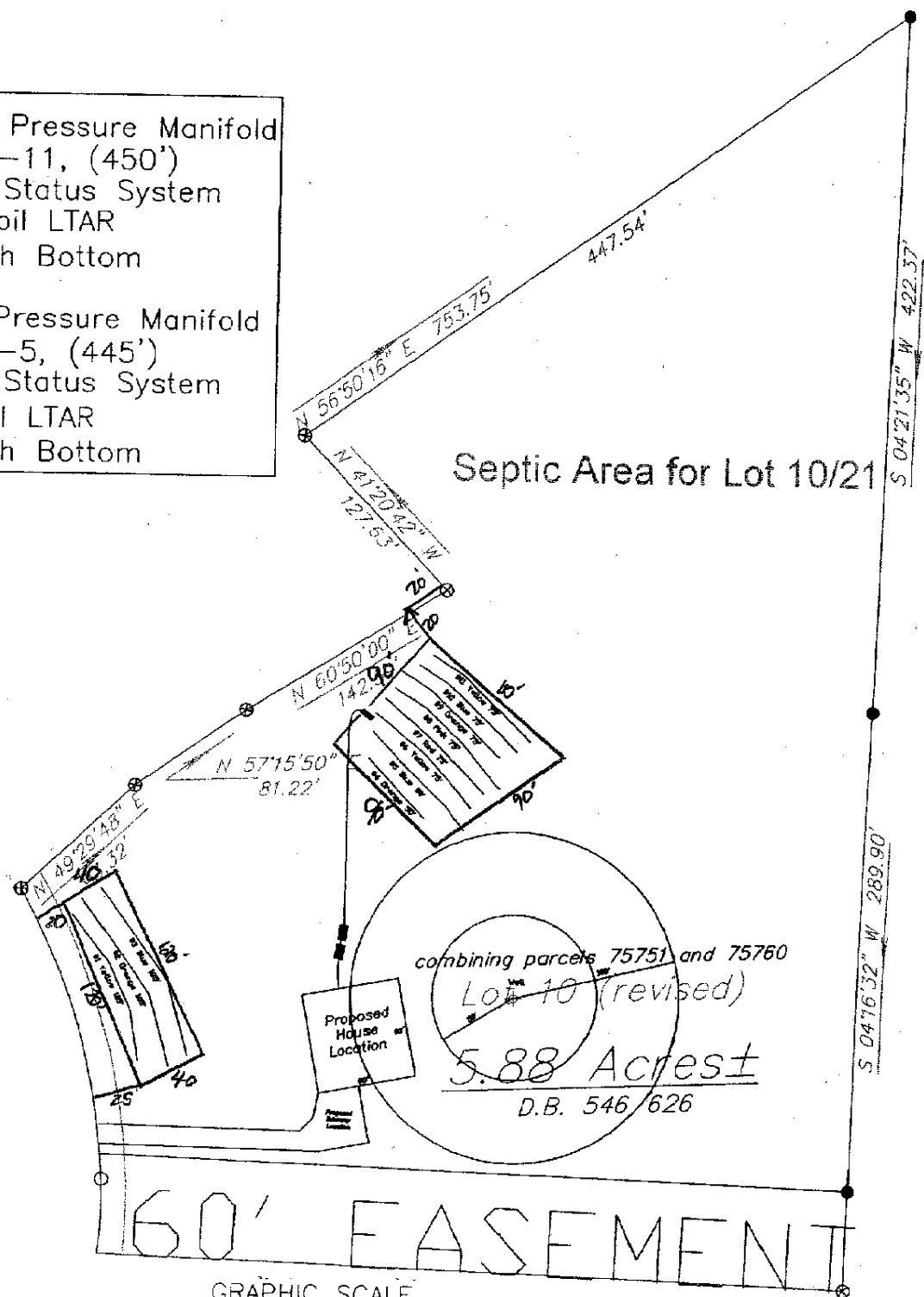
N.C. Registration Number 1991
Date 2-8-08

Name Deer Mountain Lot 10 911 Address

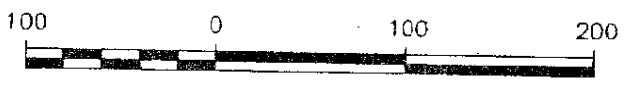
Deer Mountain, Lot 10 Selinco LTD 4-Bedroom Septic System Layout

System: Pressure Manifold
 Lines: 6-11, (450')
 Accepted Status System
 0.275 Soil LTAR
 12" Trench Bottom

Repair: Pressure Manifold
 Lines: 1-5, (445')
 Accepted Status System
 0.275 Soil LTAR
 12" Trench Bottom



GRAPHIC SCALE
 1" = 100'



Central Carolina
 Soil Consulting
 919-784-9449
 Project # 331

Selinco, LTD
Deer Mountain Subdivision Easement Lot 10
 4-Bedroom Home (480 gal./day)

<u>LINE #</u>	<u>COLOR</u>	<u>BS</u>	<u>HI</u>	<u>FS</u>	<u>ELEVATION</u>	<u>LINE LENGTH</u>	<u>Design Length</u>
TBM		2.6		100.0		<u>in field</u>	<u>installation</u>
INST. 1			102.6				
1	Yellow			7.3	95.3	108	105
2	Orange			9.7	92.9	110	105
3	Blue			10.8	91.8	115	105
TBM		4.4		100.0			
INST. 1			104.4				
4	Orange			2	100.6	51	50
5	Blue			3.8	98.8	81	80
6	Yellow			5.4	97.2	95	75
7	Red			7.1	95.5	100	75
8	Pink			8.8	93.8	91	75
9	Orange			10.4	92.2	80	75
10	Blue			12.1	90.5	81	75
11	Yellow			13.9	88.7	80	75
Total						992	895

<u>System Type</u>	<u>System</u> Lines 6-11	<u>Repair</u> Lines 1-5
	Accepted Status System	Accepted Status System
	EZ-FLOW	EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.275	0.275
System Installation LTAR	0.275	0.275
Total Line Length	450	445
Square Footage	1350	1335
Proposed Trench Bottom	12"	12"
Distribution Method	Pressure Manifold	Pressure Manifold
Notes:		

Sheet1

**Selinca, LTD
Deer Mountain, Lot 10
Initial, Tap Chart**

Bench Mark	4.40	is = 100.00 Location of BM				Elevation Head		2.90	
Pump tank elev.	4	100.40	Pump elev.	95.40	Manifold elev.		98.30		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
6	Yellow	5.4	99.00	75	1/2in SCH 40	7.11	80.00	225	0.3556
7	Red	7.10	97.30	75	1/2in SCH 40	7.11	80.00	225	0.3556
8	Pink	8.80	95.60	75	1/2in SCH 40	7.11	80.00	225	0.3556
9	Orange	10.4	94.00	75	1/2in SCH 40	7.11	80.00	225	0.3556
10	Blue	12.1	92.30	75	1/2in SCH 40	7.11	80.00	225	0.3556
11	Yellow	13.9	90.50	75	1/2in SCH 40	7.11	80.00	225	0.3556
		total	feet =	450	gal/min =	42.66	LTAR =	0.3000	
% of Dose Vol.	75	Des. Flow		480	LTAR + %5		0.3150		
Dose Volume	219.38	Pump Run=		11.25	(ltar W/ INOV)		0.4000		
Dose Pump Time	5.14	Tank Gal/IN		21	(ltar W/ INOV + 5%)		0.4200		
Drawdown in Inches	10.45								

Sheet1

**Selinca, LTD
Deer Mountain, Lot 10
Repair, Tap Chart**

Bench Mark	4.40	is = 100.00	Location of BM		Elevation Head	0.30				
Pump tank elev.	4	100.40	Pump elev.	95.40	Manifold elev.	95.70				
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	
1	Yellow	7.3	97.10	105	3/4in SCH 80	10.1	113.03	315	0.3588	
2	Orange	9.70	94.70	105	3/4in SCH 80	10.1	113.03	315	0.3588	
3	Blue	10.80	93.60	105	3/4in SCH 80	10.1	113.03	315	0.3588	
4	Orange	2	102.40	50	1/2in SCH 80	5.48	61.33	150	0.4089	
5	Blue	3.8	100.60	80	1/2in SCH 40	7.11	79.57	240	0.3315	
		total	feet =	445	gal/min =	42.89			LTAR =	0.3000
				Des. Flow	480			LTAR + %5	0.3150	
% of Dose Vol.	75			Pump Run=	11.19			(ltar W/ INOV)	0.4000	
Dose Volume	216.94			Tank Gal/IN	21			(ltar W/ INOV + 5%)	0.4200	
Dose Pump Time	5.06									
Drawdown in Inches	10.33									