

HARNETT COUNTY HEALTH DEPARTMENT

HTE 05-50011269

IMPROVEMENT PERMIT

22078

Be it ordained by the Harnett County Board of Health as follows: Section III, Item B. "No Person shall begin construction of any building at which a septic tank system is to be used for disposal of sewage without first obtaining a written permit from the Harnett County Health Department."

Name: (owner) FRANCIS REALTY INC

New Installation Septic Tank

Property Location: SR#1407 WADE STEPHENSON RD

Repairs Nitrification Line

Subdivision FIELDSTONE FARMS Lot # 2

Tax ID # _____ Quadrant # _____

Number of Bedrooms Proposed: 3 Lot Size: 1.45

Basement with Plumbing: Garage:

Water Supply: Well Public Community

Distance From Well: 100 ft.

Following is the minimum specifications for sewage disposal system on above captioned property. Subject to final approval.

Type of system: Conventional Other PUMP TO CONVENTIONAL (PRESSURE MANIFOLD)

Size of tank: Septic Tank: 1000 gallons Pump Tank: 1000 gallons

Subsurface Drainage Field No. of ditches 6 exact length of each ditch VARIES ^{400FT. TOTAL} ft. width of ditches 3 ft. depth of ditches 12 in.

French Drain Required: _____ Linear feet

Date: 7/1/05

Signed: [Signature] ES (OLIVER TOLSONOFF)
Environmental Health Specialist

This permit is subject to revocation if site plans or intended use change.

- SEE ATTACHMENTS FOR SITE PLAN, SYSTEM LAYOUT, & SYSTEM SPECIFICATIONS
- MINIMUM OF 6" OF COVER NEEDED OVER DRAINFIELD
- CALL WITH ANY QUESTIONS PRIOR TO INSTALLATION

HARNETT COUNTY DEPARTMENT OF PUBLIC HEALTH
AUTHORIZATION TO CONSTRUCT

Authorization is hereby given to construct a wastewater system to the specifications described by Harnett County Department of Public Health, Improvement Permit # 22078. This authorization shall be valid for a period not to exceed five (5) years from the date of issuance. *This authorization will be invalid if ownership, site plans, or intended use change.*

FRANCIS REALTY INC 919-552-8007
Name Telephone #

PO Box 305 FUQUAY-VARINA NC 27526
Address

1407 WADE STEPHENSON RD
Property Location SR# Road Name

FIELDSTONE FARMS 2 3 1.45AC
Subdivision Lot # # Bedrooms Proposed Lot Size

TYPE OF SYSTEM

- New Installation [] Repair Septic Tank Nitrification Lines
[] Conventional Other PUMP TO CONVENTIONAL (PRESSURE MANIFOLD)
[] Basement [] With Plumbing [] Without Plumbing

Water Supply: [] Well Public Water Supply Minimum Well Setback: 100 Ft.

Septic Tank 1000 gal Pump Chamber 1000 gal

NITRIFICATION FIELD SPECIFICATIONS

Number of fields 1 # of lines per field 6 Length of lines VARIABLES Ft. 400ft TOTAL

Width of ditches 3 ft. Depth of ditches 12 inches

French Drain: Linear feet required _____ Depth of gravel _____

No wastewater system shall be covered or placed into use by any person until an inspection by the Harnett County Health Department has determined that the system has been installed according to the conditions of the Improvement Permit and that a valid Operations Permit has been issued.

[Signature] RS 7/1/05
Signature of Authorized Agent for Harnett County Date

LAYOUT FOR A THREE BEDROOM PRESSURE MANIFOLD SYSTEM (LINES 1A,1B,2,3,4,5,6) LTAR 0.30--35 GRAVEL

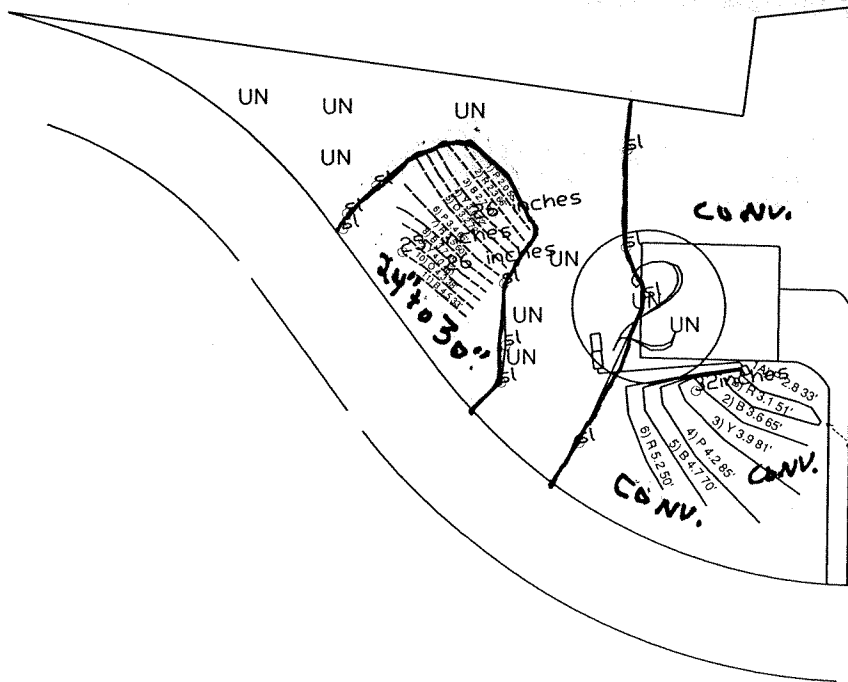
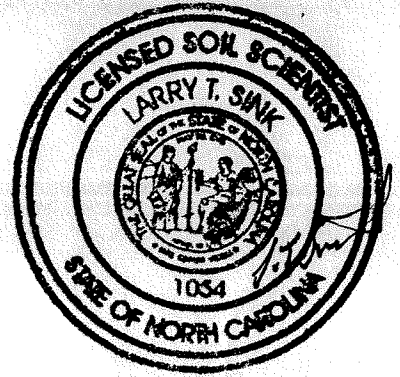
LAYOUT FOR A THREE BEDROOM LOW PRESSURE PIPE REPAIR (LINES 1,2,3,4,5,6,7,8,9,10,11,12) LTAR 0.12

SOILS MAP

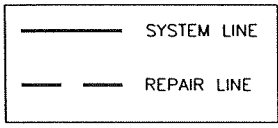
CONV. - AREA CONTAINS 24" to 30" + SOILS

24" to 30" - SOILS HAVE 24" to 30" INCHES OF WEARABLE MATERIAL

UN - UNSUITABLE



LINES 1A AND 1B WILL BE WRAPPED TOGETHER TO FORM AN 80 FOOTER



PROJECT NO. 7513.S1	SCALE 1" = 50'	SHEET TITLE: LOT 2 SEPTIC SYSTEM LAYOUT
PROJECT MGR. MB	FIELD WORK JW	PROJECT NAME: LARRY FRANCIS FIELDSTONE LOT 2 HARNETT COUNTY, NORTH CAROLINA APRIL 2005
DRAWN BY JW		
\\SEC\SECFILES\7513.S1\LOT 2.DWG		



Soil & Environmental Consultants, PA
 11010 Raven Ridge Road • Raleigh, North Carolina 27614 • Phone: (919) 846-5900 • Fax: (919) 846-9467
 www.SandEC.com

FIELDSTONE LOT 2

Project No. 7513.S1

LAYOUT FOR 3 BEDROOM HOME

April 1, 2005

LINE #	FLAG COLOR	BS	HI	FS	LEVATION	LINE LENGTH	DESIGN LINE LENGTH
TBM		3.2			100.00		
INSTR. 1			103.20				
*1A	PINK	WRAP	AROUND	2.80	100.40	33	30
*1B	RED	WRAP	AROUND	3.10	100.10	51	50
*2	BLUE			3.60	99.60	65	65
*3	YELLOW			3.90	99.30	81	80
*4	PINK			4.20	99.00	85	85
*5	BLUE			4.70	98.50	70	70
*6	RED			5.20	98.00	50	50
		5.8					
1	PINK			2.00	101.20	55	53
2	RED			2.30	100.90	66	63
3	BLUE			2.70	100.50	70	64
4	YELLOW			3.00	100.20	72	69
5	ORANGE			3.20	100.00	72	72
6	PINK			3.40	99.80	66	60
7	RED			3.50	99.70	60	60
8	BLUE			3.70	99.50	55	50
9	YELLOW			4.00	99.20	46	46
10	ORANGE			4.30	98.90	38	34
11	BLUE			4.50	98.70	33	29
					Total	1002	1030

	LINE LENGTH	LTAR GPD/FT ²	SYSTEM TYPE	SOIL LTAR GPD/FT ²	INNOVATIVE SYSTEM	DISTRIBUTION
* System	430'	0.31	CONV.	0.31	GRAVEL	Pressure Manifold
Repair	600'	0.12	Innov.	0.12	GRAVEL	LOW PRESSURE PIPE

- Notes:**
- ** TBM1 BASE OF CORNER POST/TBM2 EDGE OF ROAD
 - **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.

**FIELDSTONE LOT 2
SYSTEM**

<u>Line #</u>	<u>Color</u>	<u>Elevation</u>	<u>Length</u>	<u>Hole Size</u>	<u>Flow/Tap</u>	<u>gpd</u>	<u>Trench Area</u>	<u>Line LTAR</u>
1A/1B	PINK/RED	2.8 & 3.1	80	SCH 80 3/4	10.1	72.72	240	0.30
2	BLUE	3.6	65	SCH 40 1/2	7.11	51.19	195	0.26
3	YELLOW	3.9	80	SCH 80 3/4	10.1	72.72	240	0.30
4	PINK	4.2	85	SCH 80 3/4	10.1	72.72	255	0.29
5	BLUE	4.7	70	SCH 40 1/2	7.11	51.19	210	0.24
6	RED	5.2	50	SCH 80 1/2	5.48	39.46	150	0.26

total feet = 430 gal/min = 50
Des. Flow 360
Pump Run= 7.20
soil LTAR 0.31

100% Dose Volume 279.83
Percent Dose Volume 80%
Total 223.86

Pump Run Time 4.48