S&ME

County copy

To: Iredell County Environmental Health Department

From: Kathleen Saunders, LSSIT
Paul Penninger, LSS

RE: Georgia Mills Plantation – Pilot Development – Lot 28 Fast Track

Date: May 10, 2008

Attached is the Fast Track information required to place Lot 28 Georgia Mills Plantation on your individual work list to review the septic system layouts. Please call when you are ready to review the lot and we will meet you on the site.

The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist the Iredell County Environmental Health Department (ICHD) with the site evaluation. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC rules. If the ICHD wishes to change tank locations, distribution devices, etc., this can be shown on the Improvement Permit.

All information and specifications were prepared in conjunction with the Fast Track Program for Iredell County and are for the sole use of Pilot Development in acquiring permits under the Fast Track Program. It is ultimately the Iredell County Health Department's responsibility to verify all specifications before permitting and/or septic system installation.

S&ME, INC. / 385 Timber Road, Suite 104 / Mooresville, NC 28115-7899 / p 704.662.8625 f 704.662.8735 / www.smeinc.com

* Green Sheet

HEALTH DEPARTMENT REQUIREMENTS

The following numbered items must be completed prior to the submittal of the Improvement Permit / Authorization to Construct / Existing System application packet. Questions? Call the Iredell County Health Department between 8-9am, Monday-Friday. Statesville Office 704 878-5305, Mooresville Office 704 664-5281

1. Complete **all** Health Department forms: septic system application, site plan, signed green sheet and water well application (if applicable). Include in submittal a copy of the zoning permit (not required for septic system repair or expansion where no addition is made to the building structure).

2. Clearly mark **all** property corners. Flag side lines every twenty-five feet if rear corners are not visible when standing on front corners.

3. Stake or flag the footprint of the building structure.

4. Where an Authorization to Construct (AC) is desired, submit a recorded copy of the plat for a subdivision lot (if not already on file at the Health Dept.) and also include 2 legible copies of a basic floor plan not larger than 11" x 17" for each floor in the structure.

5. Any site not having adequate visibility (50' in any direction) must be cleared of "undergrowth" to allow access and provide good visibility.

6. All completed paperwork must be submitted to the Health Department for review before any name will be placed on the service request (appointment) list. **Only properly completed applications will be placed on the service request list on a first come, first serve basis. Incomplete applications will be returned to the applicant.**

Completed permits must be picked up promptly. If it becomes necessary to send a certified letter, postage will be charged (return receipt) and any permit not picked up by the deadline in the letter will be voided. **All monies paid to that point are non-refundable.**

Any site not ready when staff arrive for the evaluation will result in the applicant being charged a site revisit fee and the request being returned to the bottom of the service request list.

By signing below I am acknowledging the above specifications have been met and the site is ready to be evaluated.

Signature: Kathleen Saunders **Date:** 5/5/08

IREDELL COUNTY HEALTH DEPARTMENT

Application For Improvement Permit and/or Authorization To Construct, Existing System Inspection

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. APPLICATION FOR: ✓ Improvement Permit ___ Authorization To Construct ___ BOTH ___ Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application
   The following optional attachments may also be submitted: ___ Survey Plat, Scaled no more than 1 Inch = 60 Feet
   Place check ( ) beside whichever is submitted if applicable ___ Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. **Applicant Information:**

Applicant Name	Mailing Address	Home Phone	Work Phone
Pilot Development	Kathleen Saunders, SAME	704-942-1250	
Same			
Owner Name	Mailing Address	Home Phone	Work Phone

4. **Property Information:**

Street Address: ___ Subdivision Name: Georgia Mills Plantation Section/Phase and Lot Number: Lot 28

Driving Directions: Hwy 115, R Shepherds Rd, L Houston, L into Subdivision

****

5. **RESIDENTIAL Site Development Information:** *(Check or Complete ALL that apply)*

(X) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
( ) Repair To Failing Septic System

Maximum Number of Bedrooms 4
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

(X) Crawl Space Foundation?
( ) Concrete Slab Foundation?
( ) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non-Residential Site Development: Type of Business ___
Square Footage of Building ___
Maximum Number of Employees ___
Maximum Number of Seats ___

****

6. **Proposed Water Supply:**

(X) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

****

7. **Desired Septic System Type:** *(You may rank in order of preference, if any)*

(4) Alternative (1) Conventional (2) Innovative (3) Modified Conventional ( ) Other ___ ( ) No Preference

****

8. **Please Answer The Following To The Best of Your Ability:**

( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

****

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

9. Signature: Kathleen Saunders
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

5/5/08
DATE

IREDELL COUNTY HEATLH DEPARTMENT

PAGE 2: *SITE PLAN WORKSHEET*

SEE THE SAMPLE SITE PLAN BELOW. INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!

Place an (X) beside each item as you complete the site plan:

- ✓ **Property Line measurements are clearly identified…**
- ✓ **All proposed structures are indicated…**
  SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site
- ✓ **Front and side setbacks from property line…**
- ✓ **Preferred driveway location and configuration, preferred well location…**
- ✓ **Area you prefer your septic system to be placed…**
- ✓ **North arrow, or other sufficient indicator of direction…**

Circle N/A on the following if appropriate:

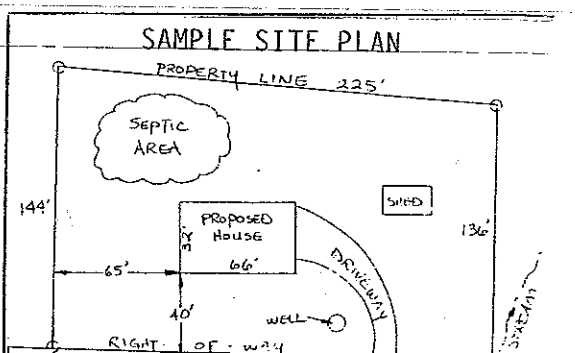
- ____ **Location of septic systems and wells within 100' of your property…** (N/A)
- ____ **Location of easements and rights of ways on your property…** (N/A)
- ____ **Location of any designated wetlands on the property…** (N/A)

Signature: Kathleen Saunders
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

5/5/08
DATE

USE THIS SPACE TO DRAW YOUR SITE PLAN

* Please See Attached *



Iredell County
ZONING PERMIT

227 South Center St. PO Box 788 Statesville, NC 28687 Phone 704-878-3118

Call Sanitarian between 8 a.m. & 9 a.m. Statesville 704-878-5305 Mooresville 704-664-5281

Permit #: 150319ZO
Subdivision: Georgia Mills Plantation
Proposed Use: Single Family
Township: 1600 Barringer
Location of Property: 205 Mills Plantation Cir. Troutman NC 28166
Parcel #: 4750704377.000
Zoning: RA
Lot #: 28 Size: 0.79
Flood Plain: No Watershed: None
Applicant: Spear Builders, Inc
Owner: GEORGIA MILLS LLC
Address: 172 Allendale Circle
Troutman NC 28166
Address: 266 ERVIN RD.
MOORESVILLE, NC 28117
Phone: 704-202-4964
Phone:
Property Recorded: Yes Site Plan Reviewed:
Community Water: No Community Sewer:

If permitted the following minimum requirements must be met, unless Health Department requires more land area, or other qualifications are indicated in the comments.

Min. Lot Area:
Min. Front Yard: 35 ft
Min. Left Side Yard: 15 ft
Min. Lot Width: 100
Min: Rear Yard: 35 ft
Min: Right Side Yard: 15 ft
Min. Number Parking Spaces:
Max. Built Upon Area:
Comments:
SFD

Directions:
Houston Rd, rt on Colonial Congress, rt on Mills Plantation, lot on rt

RECEIVED
MAY 19 2008
BY

FEES

Zoning Permit/Inspection Fee	☑	$45.00
Site Plan Review Fee	☐	$0.00
Environmental Health New System	☑	$335.00
Environmental Health Existing System	☐	$0.00
Total Fees:		$380.00

I certify that all statements made in this application and any attached documents are true, complete, and correct to the best of my knowledge and belief and are made in good faith. I understand that false information may be grounds for rejection of this application. Authorized Health Department and Planning & Enforcement Representatives are granted right of entry to make evaluations or inspections and to release information upon public request.

Applicant:_____ Date: _____

A non-refundable fee of $45.00 is charged on all permit applications.

PAULA WOODY

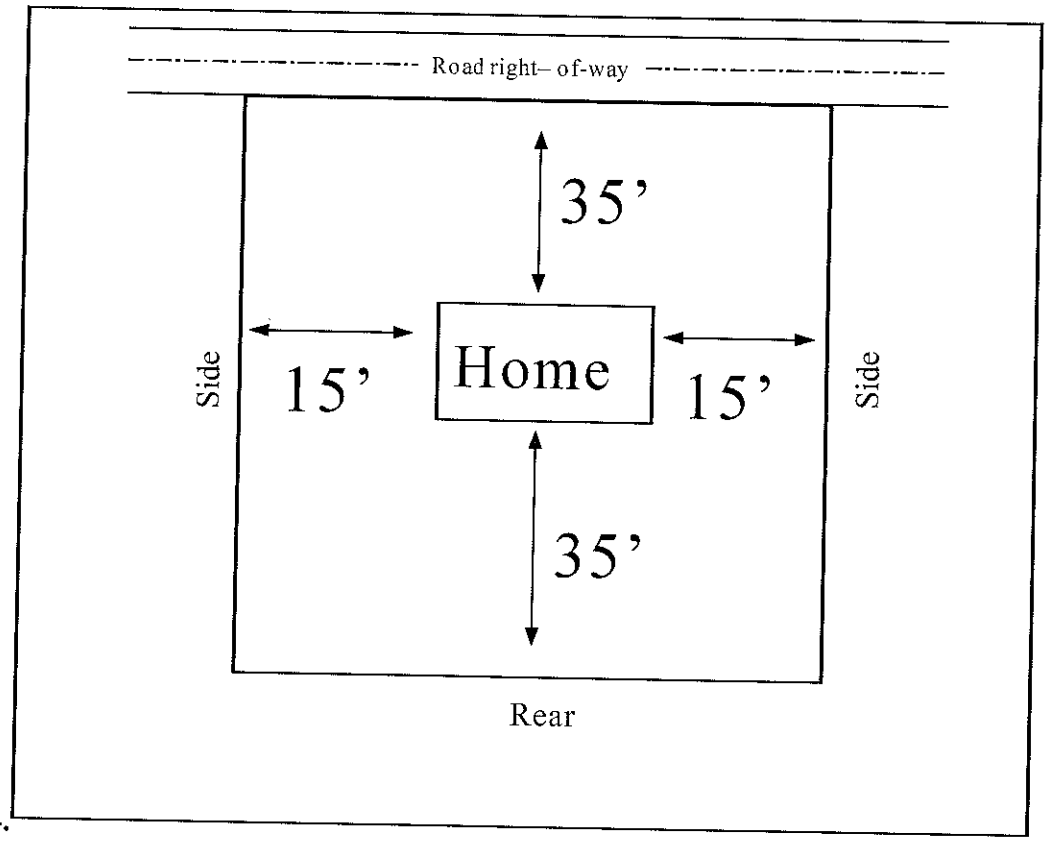
Printed: 5/7/2008

ZONING DISCLAIMER

The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. Applicant further acknowledges that the enforcement of deed restrictions, plat conditions, and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

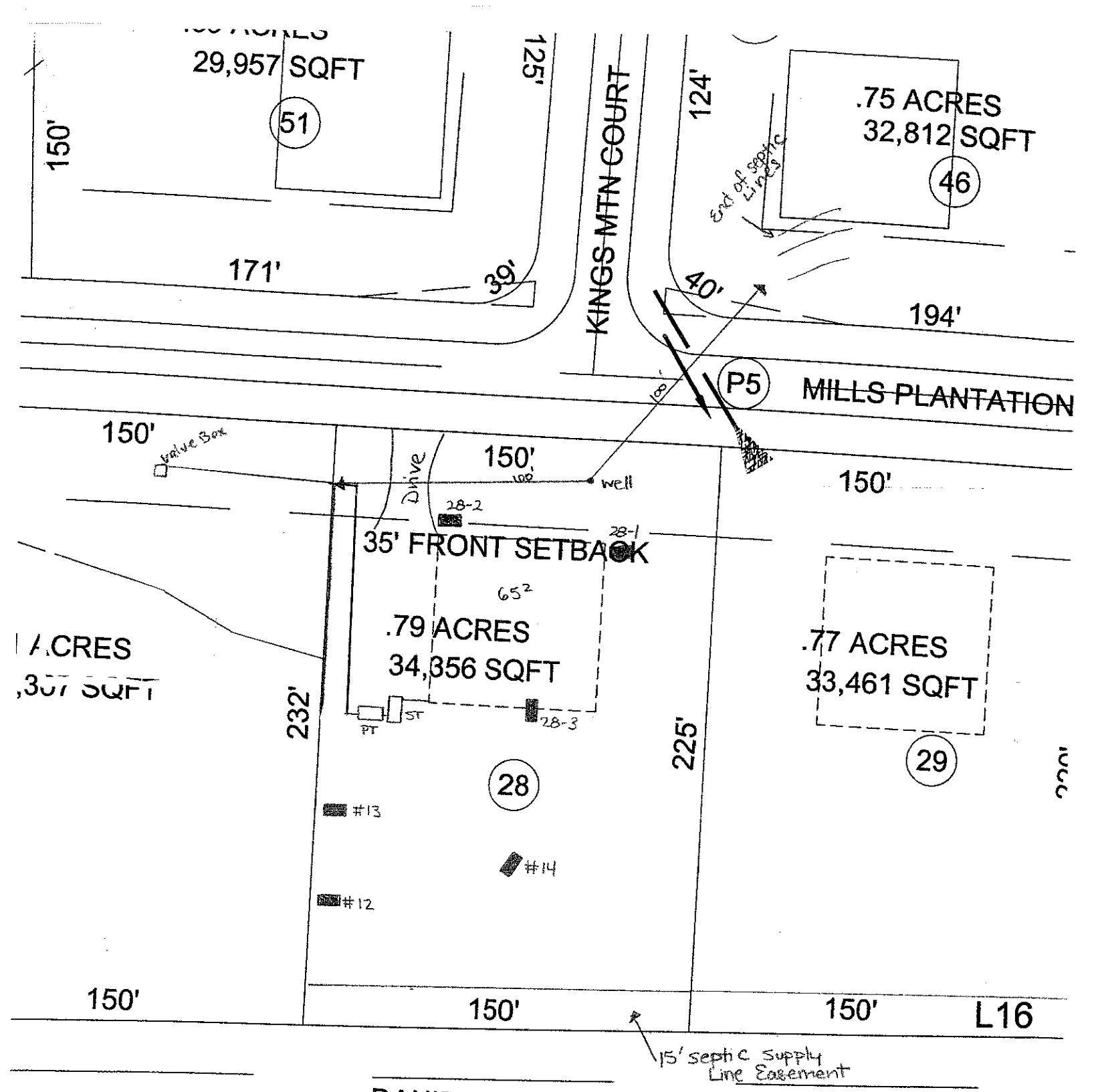
Applicant _____ Date _____

STREET NAME : 205 Mills Plantation Circle

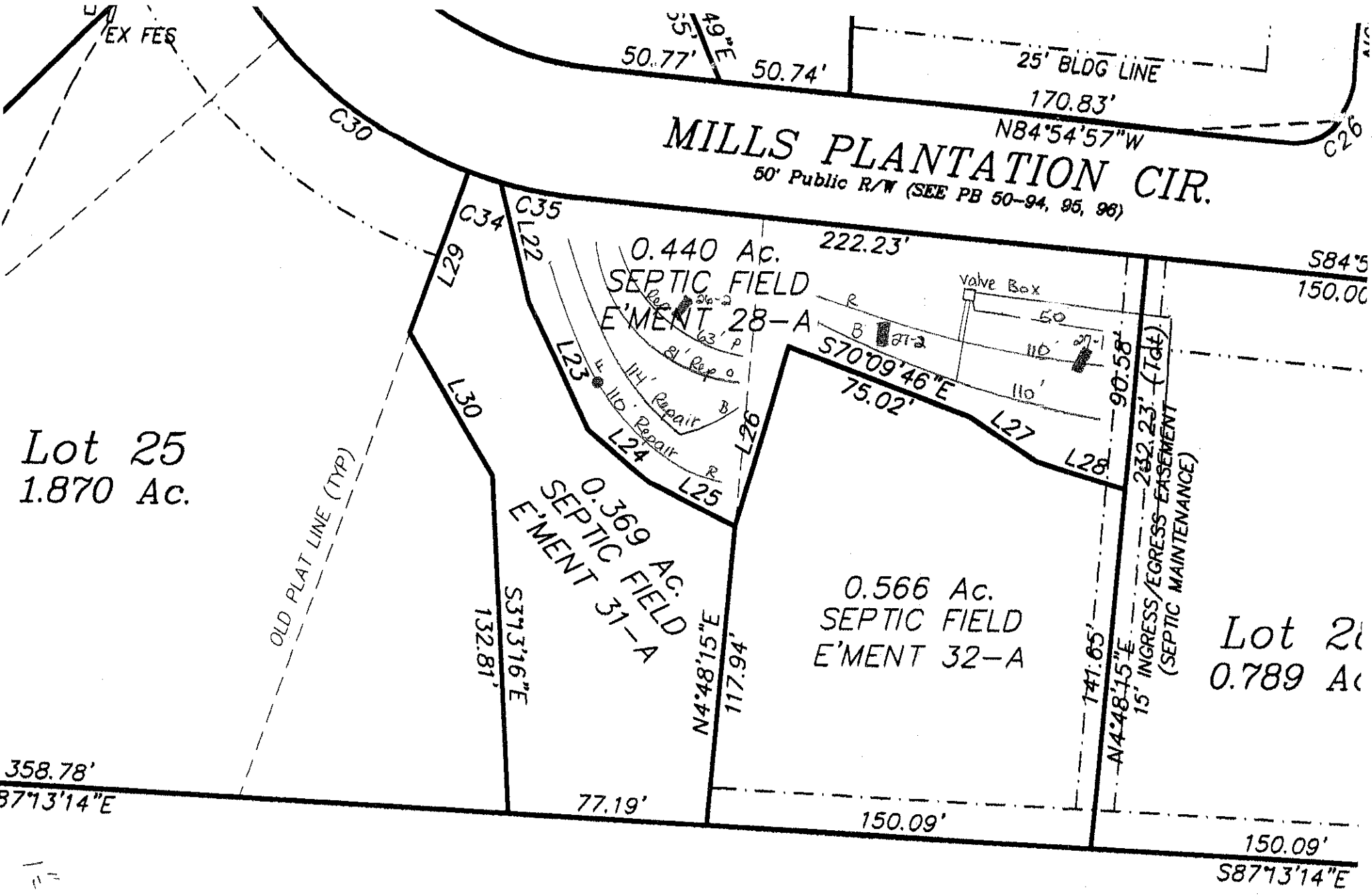


#54.

In the box above indicate the location of the building's or structure's, their orientation to the front of the lot as indicated, and the setback distances to all property lines and the distances to any other building's or structure's on the lot. Also indicate the size/shape of the lot and the corresponding dimensions when necessary. The front of the lot is the portion which abuts a public right of way or easement.



DANIEL H. NEWTON
TERESA I. NEWTON
874-1986


EX FES
50.77'
50.74'
25' BLDG LINE
170.83'
N84°54'57"W
MILLS PLANTATION CIR.
50' Public R/W (SEE PB 50-94, 95, 96)
C30
C34
C35
L22
L29
222.23'
S84°5
150.0
0.440 Ac.
SEPTIC FIELD
E'MENT 28-A
Valve Box
50
110'
S70°09'46"E
75.02'
90.58'
232.23' (Tgt)
L23
L24
L25
L26
L27
L28
L30
114' Repair
110' Repair
Lot 25
1.870 Ac.
OLD PLAT LINE (TYP)
0.369 Ac.
SEPTIC FIELD
E'MENT 31-A
S3°13'16"E
132.81'
N4°48'15"E
117.94'
0.566 Ac.
SEPTIC FIELD
E'MENT 32-A
141.65'
N4°48'15"E
15' INGRESS/EGRESS EASEMENT
(SEPTIC MAINTENANCE)
Lot 2
0.789 A
358.78'
S87°13'14"E
77.19'
150.09'
150.09'
S87°13'14"E

Lot 28 GA. Mills Plantation Fast Track Septic System Information

Number of Bedrooms	4
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
No. Lines	3 (See Table)
Total Linear Feet	270
Trench Width	2' min.
Trench Spacing	8' min.
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	170' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	30.5 gpm
Elevation head	Approx. 11.6'
Pressure head	3.0'
Friction head	2.8'
20% Contingency	3.5'
Total Head	20.9'
Pump Requirements	30.5 gpm @ 20.9' of head To be designed by installer. ICHD requires In line pump filter such as Sim Tech
Maximum Dosing Volume	219.6 gal -2.2 doses/day @ design flow*
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 7.2 min.
Check Valve	Yes
Siphon Break hole	No
Repair System	**LP PPBPS**
Total Linear Feet	368
Repair LTAR	0.25

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**

Table 1: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	System	NF	LPPPBPS	50 endfed		11	11	1 per panel	5/32"
2	System	Red	LPPPBPS	110 centerfed	9.3	25	25	1 per panel	5/32"
3	System	Blue	LPPPBPS	110 centerfed		25	25	1 per panel	5/32"
4	Repair	Pink	LPPPBPS	63	10.7				
5	Repair	Orange	LPPPBPS	81					
6	Repair	Blue	LPPPBPS	114					
7	Repair	Red	LPPPBPS	110	12.9				
						Total: 61	Total: 61 (1 in each panel turned up)		
				Total System: 270'					
				Total Repair: 368'					

Tank	Red	1000 gal (2 compartment)	12.9
Pump Tank	Red	1000 gal.	12.9
House	Pink	Right Rear	12.9

Note: **Elevations to be checked by surveyor prior to installation**
Shape septic area to shed surface water
Septic area located off site on SFE 28-A
Well location must be installed according to permit to maintain proper separation from septic fields

NUM	BEARING	DISTANCE
L1	S69°03'24"E	50.31'
L2	S72°42'45"E	53.03'
L3	S76°52'47"E	49.97'
L4	S80°22'31"E	51.53'
L5	N88°23'35"E	25.85'
L6	N88°23'35"E	25.62'
L7	N18°58'24"E	98.58'
L8	N77°44'34"W	48.54'
L9	N88°08'05"W	15.00'
L10	N45°21'37"W	92.65'
L11	N89°29'32"W	42.49'
L12	S1°49'32"W	92.63'
L13	S29°42'06"E	67.04'
L14	S87°46'32"E	94.86'
L15	S45°21'37"E	70.59'
L16	S45°21'37"E	22.07'
L17	N6°43'59"E	51.41'
L18	N6°43'59"E	37.92'
L19	N6°43'59"E	44.57'
L20	S12°24'47"E	54.51'
L21	S26°37'28"E	46.20'
L22	S13°42'48"E	47.76'
L23	S25°55'45"E	53.36'
L24	S49°46'37"E	31.66'
L25	S63°11'50"E	37.51'
L26	N16°07'53"E	72.67'
L27	S57°24'18"E	31.42'
L28	S72°15'38"E	36.40'
L29	N19°31'53"E	66.72'
L30	S31°12'30"E	63.11'

NUM	DELTA	ARC	RADIUS	BEARING	DISTANCE
C1	67°12'29"	35.19'	30.00'	N7°32'58"W	33.21'
C2	61°10'28"	32.03'	30.00'	S56°38'31"W	30.53'
C3	85°29'00"	37.30'	25.00'	N68°47'47"E	33.93'
C4	18°13'20"	55.66'	175.00'	N77°34'23"W	55.42'
C5	0°50'03"	2.55'	175.00'	N87°06'05"W	2.55'
C6	89°44'34"	39.16'	25.00'	S42°38'49"E	35.28'
C7	26°02'35"	11.36'	25.00'	S15°14'46"W	11.27'
C8	22°08'47"	9.66'	25.00'	S39°20'27"W	9.60'
C9	76°30'07"	66.76'	50.00'	N12°09'47"E	61.91'
C10	51°33'58"	45.00'	50.00'	N51°52'16"W	43.50'
C11	43°11'12"	37.69'	50.00'	S80°45'08"W	36.80'
C12	57°02'59"	49.79'	50.00'	S30°38'03"W	47.75'
C13	48°04'27"	41.95'	50.00'	S21°55'41"E	40.73'
C14	48°11'22"	21.03'	25.00'	N21°52'13"W	20.41'
C15	90°15'25"	39.38'	25.00'	S47°21'11"W	35.43'
C16	23°41'15"	51.68'	125.00'	N75°40'29"W	51.31'
C17	70°08'15"	153.02'	125.00'	N28°45'43"W	143.64'
C18	88°46'37"	193.68'	125.00'	N50°41'44"E	174.88'
C19	91°13'22"	39.80'	25.00'	S39°18'16"E	35.73'
C20	48°11'22"	21.03'	25.00'	S30°24'06"W	20.41'
C21	82°32'08"	72.03'	50.00'	N13°13'44"E	65.96'
C22	64°47'21"	56.54'	50.00'	N60°26'01"W	53.57'
C23	48°56'44"	42.71'	50.00'	S62°41'56"W	41.43'
C24	80°06'31"	69.91'	50.00'	S1°49'42"E	64.35'
C25	48°11'22"	21.03'	25.00'	N17°47'16"W	20.41'
C26	88°46'37"	38.74'	25.00'	N50°41'44"E	34.98'
C27	87°08'25"	190.11'	125.00'	S41°20'45"E	172.31'
C28	89°53'07"	39.22'	25.00'	S18°53'17"E	35.32'
C29	25°18'51"	77.32'	175.00'	S10°25'58"E	76.69'
C30	47°23'18"	144.74'	175.00'	S46°47'02"E	140.65'
C31	88°46'37"	271.15'	175.00'	N50°41'44"E	244.83'
C32	21°48'09"	66.59'	175.00'	N52°55'46"W	66.19'
C33	27°57'52"	85.41'	175.00'	N28°02'45"W	84.57'
C34	4°18'03"	13.14'	175.00'	S72°37'42"E	13.13'
C35	10°08'13"	30.96'	175.00'	S79°50'51"E	30.92'
C36	7°20'12"	22.41'	175.00'	N9°58'31"E	22.39'
C37	27°02'51"	82.61'	175.00'	N27°10'03"E	81.85'
C38	25°38'34"	78.32'	175.00'	N53°30'46"E	77.67'
C39	26°15'30"	80.20'	175.00'	N79°27'48"E	79.50'
C40	2°29'29"	7.61'	175.00'	S86°09'42"E	7.61'
C41	6°30'00"	13.61'	120.00'	N7°59'40"E	13.61'
C42	20°22'13"	62.22'	175.00'	N3°52'42"W	61.89'