


13800 PAVILION ESTATES DR

01924304

1/11/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
*Barcode Font = IDAutomationHC39M*

## Groundwater & Wastewater Services
### Septic Project File & Data Review Worksheet

GWS File #: 68993 WASPS App #: 1776

Primary ES assigned to project: DJ

Secondary ES assigned to project: _____

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

**I. File Review:**

| Rule or Law | Permit Application | | | |
|---|---|---|---|---|
| .1937(d) | Is the Application complete | Yes ☑ | No ☐ | N/A ☐ |
| .1937(d) | Is there a Site plan/Plat with application | Yes ☑ | No ☐ | N/A ☐ |
| .1937(d) | Is the Facility shown? | Yes ☑ | No ☐ | N/A ☐ |
| .1937(d) | Are appurtenances shown | Yes ☑ | No ☐ | N/A ☐ |
| | **Site Evaluation Information** | | | |
| .1939 (a)(1) | Topography and Landscape Position Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1940 (a-g) | Slope % Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(2) | Texture Class Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(2) | Structure type Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(2) | Consistence Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(2) | Mineralogy Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(3) | Soil Wetness Condition Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(4) | Soil Depth to Rock or Parent Material Recorded When Encountered | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(5) | Depth to Restrictive Horizons Recorded When Encountered? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(6) | Sufficient Available Space Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1937(m) | Are the Profile Locations Shown? | | | |
| .1939(a) | Are the S/PS Profiles in system & in repair area? | Yes ☑ | No ☐ | N/A ☐ |
| & .1945(b) | Number of auger borings made: 4 Were sufficient auger borings made? | Yes ☑ | No ☐ | N/A ☐ |
| .1939(d), .1955, .1956, .1957 | LTAR 3 | Yes ☐ | No ☐ | N/A ☐ |
| | **Improvement Permit/Construction Authorization** | | | |
| .1937(g) 130A-336(a) | Proposed System Type stated-Initial | Yes ☑ | No ☐ | N/A ☐ |
| .1945(b) | Proposed System Type stated-Repair | Yes ☑ | No ☐ | N/A ☐ |
| 130A-336 (a)(3) | System location identifiable by setbacks - Initial | Yes ☑ | No ☐ | N/A ☐ |
| .1937(g) .1945(b) | System components shown – Initial | Yes ☑ | No ☐ | N/A ☐ |
| .1945(b) | Repair area shown | Yes ☑ | No ☐ | N/A ☐ |
| .1937 (f)(g) | Does System design match facility, flow & WWcharacteristics? | Yes ☑ | No ☐ | N/A ☐ |
| .1937 (f)(g) | Is System design consistent with soil/site conditions? | Yes ☑ | No ☐ | N/A ☐ |
| .1937 (f)(g) | Is the System located in the approved area? | Yes ☑ | No ☐ | N/A ☐ |
| 130A-336(a) | Is the Design flow (gpd) indicated? | Yes ☑ | No ☐ | N/A ☐ |

| | | | | |
|---|---|---|---|---|
| 130A-336(a) | Number of Bedrooms, employees, seats, etc. indicated? | Yes ☑ | No ☐ | N/A ☐ |
| .1937(g) | Trench depth indicated? | Yes ☑ | No ☐ | N/A ☐ |
| .1937(g) | Trench width indicated? | Yes ☑ | No ☐ | N/A ☐ |
| .1937(g) | Trench length indicated? | Yes ☑ | No ☐ | N/A ☐ |
| 130A-336(a)(1) | Proposed/existing well shown? | Yes ☑ | No ☐ | N/A ☐ |
| 130A-336(a)(1) | Property line lengths shown? | Yes ☑ | No ☐ | N/A ☐ |
| 130A-336(a) | Facility/appurtenance setbacks shown from fixed points? | Yes ☑ | No ☐ | N/A ☐ |

**Operation Permit**

| | | | | |
|---|---|---|---|---|
| .1937(i) | System type as described in table V(a) of rule .1961 | Yes ☐ | No ☐ | N/A ☐ |
| .1937(i) | Conditions for system performance, operation, maintenance, monitoring and reporting. | Yes ☐ | No ☐ | N/A ☐ |

**II. WASPS Review:**

| | | | |
|---|---|---|---|
| Construction authorization issued | Yes ☐ | No ☐ | N/A ☐ |
| Installation approval issued | Yes ☐ | No ☐ | N/A ☐ |
| Operation permit issued | Yes ☐ | No ☐ | N/A ☐ |
| Other related documentation | Yes ☐ | No ☐ | N/A ☐ |

# Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: _____ Date performed: _____

S&ME

GWS Septic System Design Review

GWS File #: 6899B

| | Approved | Disapproved |
|---|---|---|
| Design Review: TCT 4-2-07 | ☒ | ☐ |
| Field Review: 4/5/07 | ☒ | ☐ |

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

March 28, 2007

Mr. Rick Jasinski
Simonini Builders
1910 South Boulevard, Suite 200
Charlotte, North Carolina 28203

13800 PAVILION ESTATES DR.
019-243-04

Reference: **Request for a Septic Improvement Permit for Lot 21 at The Pavilion**
Mecklenburg County Health Department (MCHD) File # 6899B

Dear Mr. Jasinski,

Attached is the request for the Improvement Permit for the above referenced lot. We are requesting an Improvement Permit for a 5 bedroom house. We are proposing a pressure manifold 25% Reduction system and a LPPPBPS repair. Mr. Bill Marlin, LSS with the MCHD has evaluated the soils (see attached MCHD soil sheets) and approved the proposed septic area at a 0.3 gpd/sqft LTAR. S&ME, Inc. has flagged the primary system and repair on the proposed septic area. The end of each septic line has been located by the surveyor and was sketched on the attached maps by S&ME. The attached sketch and specifications are not an Improvement Permit and are intended only to assist the MCHD in permitting the referenced lot at The Pavilion.

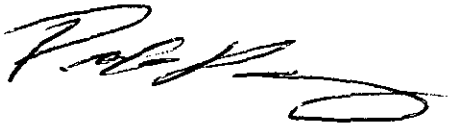
**This lot will utilize an off-site septic area for the septic system drainfield.** Simonini will install the pipe from the lot to the septic area easement in the recorded septic supply line easement. The pipe will be 2 ½ inch SCH 40 PVC unless otherwise specified by both the MCHD and the Town of Huntersville in writing. Both the MCHD and Huntersville should sign off on the proposed pipe specifications and routing prior to installation. Both should also be advised of the installation schedule so they can inspect the installation as necessary.

A building permit cannot be issued until the MCHD issues an Authorization to Construct (ATC). The buyer will apply for the ATC. **No grading shall take place on the septic area prior to obtaining the ATC from the MCHD.**

The proposed system is a TYPE III and will not require a contract with a Certified Operator to supply maintenance services for the septic system. Please review the attached system sketch and design specifications for the Improvement Permit. If necessary, the MCHD may add comments to the site plan or specifications. Please call in you have and questions or comments.

Sincerely,

**S&ME, Inc.**



Paul G. Penninger, LSS
Licensed Soil Scientist

Rob Willcox, LSS
Natural Resources Department Manager

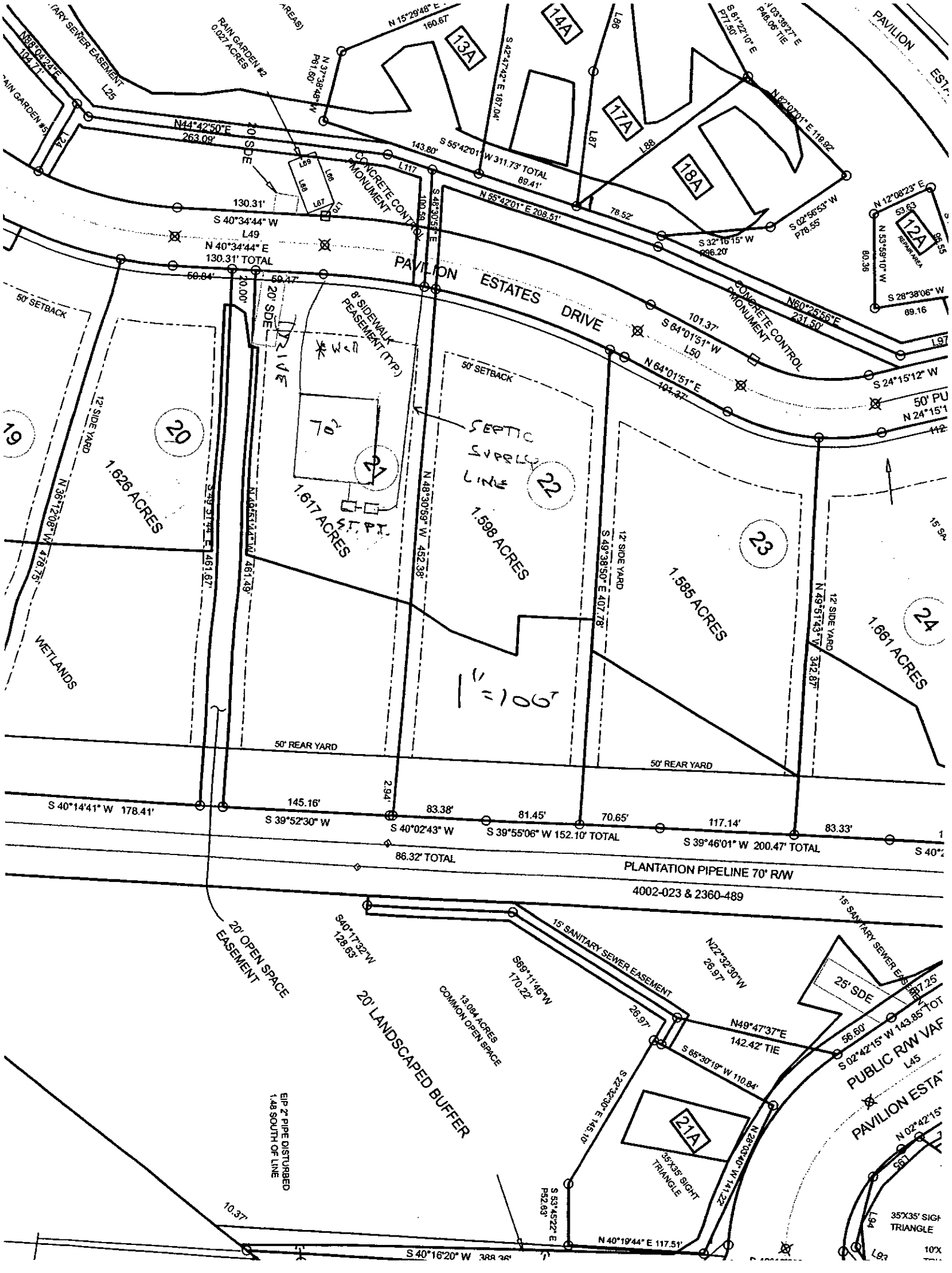
**Attachments:**
1. System Specifications
2. Site Plan
3. MCHD Soil Evaluation
4. Septic Supply Line Easement

Copy: Mr. Jeremy Michelone, R.S.
MCHD

## Design Specifications for Lot 21 at The Pavilion ✓ TCT
## MCHD File # 6899B

| | |
|---|---|
| Daily Design Flow: | 600 gpd |
| Number Bedrooms: | 5 bedroom |
| Basement or Crawl Space: | Basement |
| Septic Tank Size: | 1500 gal |
| Pump Tank Size: | 1500 gal |
| **Primary System Loading Rate:** | **0.3 gpd/ft$^2$** |
| **Primary System:** | **25% reduction** |
| Number and length of laterals: | 5 @ 100 ft. |
| Total ft. of primary system: | 500 ft. |
| Flow Rate through system: | 27.5 gpm – use ½ in. SCH 80 taps with 2 ft. head pressure on pressure manifold (5.5 gpm per tap) |
| Pump Requirements: | to be calculated by installer when specific house and pump tank locations are available |
| Dosing Volume: | approx. 270 gal. – 2.2 doses/day at design flow |
| Depth of effluent pumped per dose: | calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.) |
| Check Valve: | yes |
| Siphon break hole: | no |
| **Repair System Loading Rate:** | **0.3 gpd/ft$^2$** |
| **Repair System:** | **LP PPBPS** |
| Total ft. of repair | 363+ ft. (334 required) |

**Notes:** This lot utilizes an off-site septic area for the drainfield.


PAVILION ESTATES DRIVE
20' SIDE
8' SIDEWALK PEASEMENT (TYP)
CONCRETE CONTROL MONUMENT
50' SETBACK
12' SIDE YARD
50' REAR YARD
20
1.626 ACRES
21
1.617 ACRES
22
1.598 ACRES
23
1.585 ACRES
24
1.661 ACRES
19
WETLANDS
SEPTIC SYSTEM LINE
1"=100'
PLANTATION PIPELINE 70' R/W
4002-023 & 2360-489
20' OPEN SPACE EASEMENT
20' LANDSCAPED BUFFER
13.084 ACRES COMMON OPEN SPACE
15' SANITARY SEWER EASEMENT
25' SIDE
PUBLIC R/W VAR
PAVILION ESTA
21A
35'X35' SIGHT TRIANGLE
12A
RAIN GARDEN #2 0.027 ACRES
EIP 2" PIPE DISTURBED 1.48 SOUTH OF LINE
N44°42'50"E 263.09'
N 40°34'44" E 130.31' TOTAL
S 40°34'44" W 130.31'
S 55°42'01" W 311.73' TOTAL 89.41'
N 55°47'01" E 209.51'
S 32°15'15" W 696.20'
N60°25'56"E 231.50'
S 64°01'51" W 101.37'
N 64°01'51" E 104.37'
S 24°15'12" W
N 40°14'41" W 178.41'
S 40°14'41" W 178.41'
S 39°52'30" W 145.16'
S 40°02'43" W 83.38'
S 39°55'06" W 152.10' TOTAL 81.45' 70.65'
S 39°46'01" W 200.47' TOTAL 117.14' 83.33'
86.32' TOTAL
S40°17'32"W 128.63'
S69°11'46"W 170.22'
N22°32'30"W 26.97'
N49°47'37"E 142.42' TIE
S 65°30'19" W 110.84'
S 02°42'15" W 143.85' TOT
N 40°19'44" E 117.51'
S 40°16'20" W 388.36'
10.37'
S 53°45'22" E P52.83'
N 12°08'23" E 53.63'
N 53°59'10" W 80.36'
S 28°38'06" W 89.16'
S 02°56'53" W P78.55'
N 82°07'01" E 118.92'
S 61°22'10" E P77.50'
S 42°47'42" E 197.04'
N 15°29'48" E 160.67'
N 37°38'49" W P61.69'
N38°04'24"E 104.71'
L25
L74
L117
L49
L50
L97
L96
L87
L88
L89
L67
L68
L69
L70
L45
L94
L93
L95

PLANTATION PIPELINE 70' R/W
4002-023 & 2360-489

117.14'

S 39°46'01" W 200.47'

25' SDE

25' SDE

87.25'

56.60'

S 02°42'15" W 143.85' TO

PUBLIC R/W VARIES

PAVILION ESTATES DRIVE

L45

N 02°42'15" E 75.35'

S 81°02'37" E 120.27' TIE

S 72°48'45" W 127.14'

POC

POB

SIGHT

SIGHT

35'X35' TRIANGLE

10'X70' TRIANGLE

L93

N 40°16'20" E 137.86'

894.10'

N 41°15'52" E 159.59' TIE

S 65°30'19" W 118.35'

Z1A

100'

100'

100'

100'

35' REPAIR

50' REP

50' REP

50' REP

50' REP

50' REP

35' SIGHT TRIANGLE

S 22°32'30" E 145.10'

C70

28°03'40"

C72

Pressure R/W Manhea

141.22'

100' R/W

C71

S 40°16'20" W 160.00'

L44

S 40°16'20" W

N 40°19'44" E 117.51'

10'X70' SIGHT TRIANGLE

S 53°45'22" E 52.63'

4 ACRES

OPEN SPACE

CAPED BUFFER

S 40°16'20" W 388.36'

(418.53')

HUNTERSVILLE CONCORD RD
SR 2448
35' PUBLIC MAINTENANCE
FROM CENTERLINE

WIL

50.52'

0.747 ACRES

EIP 1 3/4" PIPE
WITNESS 1 1/4" PIPE 0.1 SOUTH OF LINE

N73°30'26"E 763.31' TOTAL (TIE)

713.59'

49.72'

EIP RR SPIKE

I, _____, REVIEW OFFICER OF MECKLENBURG COUNTY, CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

_____
REVIEW OFFICER

_____
DATE

MAJOR SUBDIVISION

APPROVED IN ACCORDANCE WITH THE PROVISIONS AS SET FORTH IN THE SUBDIVISION ORDINANCE OF THE TOWN OF HUNTERSVILLE, NORTH CAROLINA.

_____
TOWN PLANN

Draw

| LINE TABLE | | | LINE TABLE | | |
|---|---|---|---|---|---|
| LINE | BEARING | DISTANCE | LINE | BEARING | DISTANCE |
| L1 | N 88°23'06" W | 42.86' | L47 | S67°36'19"W | 98.78' |
| L2 | S 40°30'04" W | 38.72' | L48 | N88°48'46"W | 50.00' |
| L3 | S 39°31'01" W | 24.53' | L49 | N48°34'44"E | 138.31' |
| L4 | N 40°55'43" E | 20.67' | L50 | N64°01'34"E | 181.37' |
| L5 | N 40°55'43" E | 20.67' | L51 | N24°15'12"E | 165.41' |
| L6 | S 24°15'12" W | 21.78' | L52 | N24°15'12"E | 69.18' |
| L7 | S 26°21'35" E | 3.00' | L53 | S49°05'09"E | 189.12' |
| L8 | S 24°15'12" W | 20.76' | L54 | S48°55'43"W | 70.67' |
| L9 | N 88°48'46" W | 50.00' | L55 | N69°02'43"W | 64.56' |
| L10 | N 88°48'46" W | 50.00 | L56 | N52°15'08"E | 67.19' |
| L11 | S 52°15'08" W | 67.19' | L57 | N89°42'16"W | 48.37' |
| L12 | S 29°42'16" E | 2.18 | L58 | S03°27'14"E | 74.41' |
| L13 | N 68°07'45" W | 38.08' | L59 | N74°48'06"W | 75.62' |
| L14 | N 52°15'08" E | 67.19 | L60 | S35°04'42"W | 72.60' |
| L15 | S 89°32'45" E | 18.03' | L61 | S 35°29'28" W | 34.00' |
| L16 | N 81°38'00" W | 36.30' | L62 | N 36°30'32" W | 32.00' |
| L17 | N 20°26'12" W | 8.42' | L63 | N 35°29'28" E | 34.00' |
| L18 | N 33°23'07" W | 46.40 | L64 | S 36°30'32" E | 32.00' |
| L19 | N 75°46'10" W | 13.51' | L65 | N 21°39'08" E | 36.60' |
| L20 | N 42°12'56" W | 12.01' | L66 | N 73°28'38" W | 47.00' |
| L21 | N 30°00'53" E | 9.42 | L67 | N 16°31'22" E | 25.00' |
| L22 | N 07°52'46" E | 41.72 | L68 | S 73°28'38" E | 47.00' |
| L23 | N 03°12'33" W | 10.75' | L69 | S 16°31'22" W | 25.00' |
| L24 | S 23°39'08" E | 66.46' | L70 | N 17°32'36" W | 13.78' |
| L25 | N 88°04'24" E | 14.74' | L71 | N 47°38'31" W | 24.00' |
| L26 | N 12°51'20" W | 35.24' | L72 | N 42°21'29" E | 38.00' |
| L27 | N 82°09'43" E | 36.34' | L73 | S 47°38'31" E | 24.00' |
| L28 | N 10°04'59" W | 44.49' | L74 | S 42°21'29" W | 38.00' |
| L29 | N 22°41'30" E | 33.52' | L75 | N 49°35'05" W | 15.82' |
| L30 | N 26°09'18" W | 65.18' | L76 | S 30°41'59" E | 38.00' |
| L31 | N 55°34'05" E | 15.64' | L77 | N 38°17'48" E | 68.68' |
| L32 | N 35°25'16" E | 55.28 | L78 | S 30°41'59" E | 38.00' |
| L33 | N 02°25'33" E | 28.95' | L79 | S 39°14'34" W | 68.68' |
| L34 | N 18°39'42" W | 14.84 | L80 | N 19°13'58" E | 42.20' |
| L35 | N 20°26'12" W | 9.58' | L81 | S 88°03'36" W | 45.00' |
| L36 | S 35°04'42" W | 26.19' | L82 | N 03°58'24" W | 87.00' |
| L37 | N 35°04'42" E | 26.40' | L83 | N 88°03'36" E | 45.00' |
| L38 | S 74°48'06" E | 75.62' | L84 | S 03°56'24" E | 87.00' |
| L39 | N 74°48'06" W | 75.62' | L85 | N 40°10'55" E | 31.92' |
| L40 | S 03°27'14" E | 27.10' | L86 | N 35°45'38" W | 80.55' |
| L41 | N 03°27'14" W | 28.01' | L87 | N 45°15'42" W | 117.47' |
| L42 | S 49°04'17" E | 63.55 | L88 | S 00°27'05" W | 187.59' |
| L43 | N 49°04'17" W | 27.77 | L89 | N 33°30'27" E | 111.80' |
| L44 | N49°43'40"W | 64.44' | L90 | S 49°04'17" E | 19.84' |
| L45 | N02°42'15"E | 99.89' | L91 | N 49°05'09" W | 21.98' |
| L46 | N49°04'17"W | 303.16' | L92 | N 40°21'16" W | 44.38' |

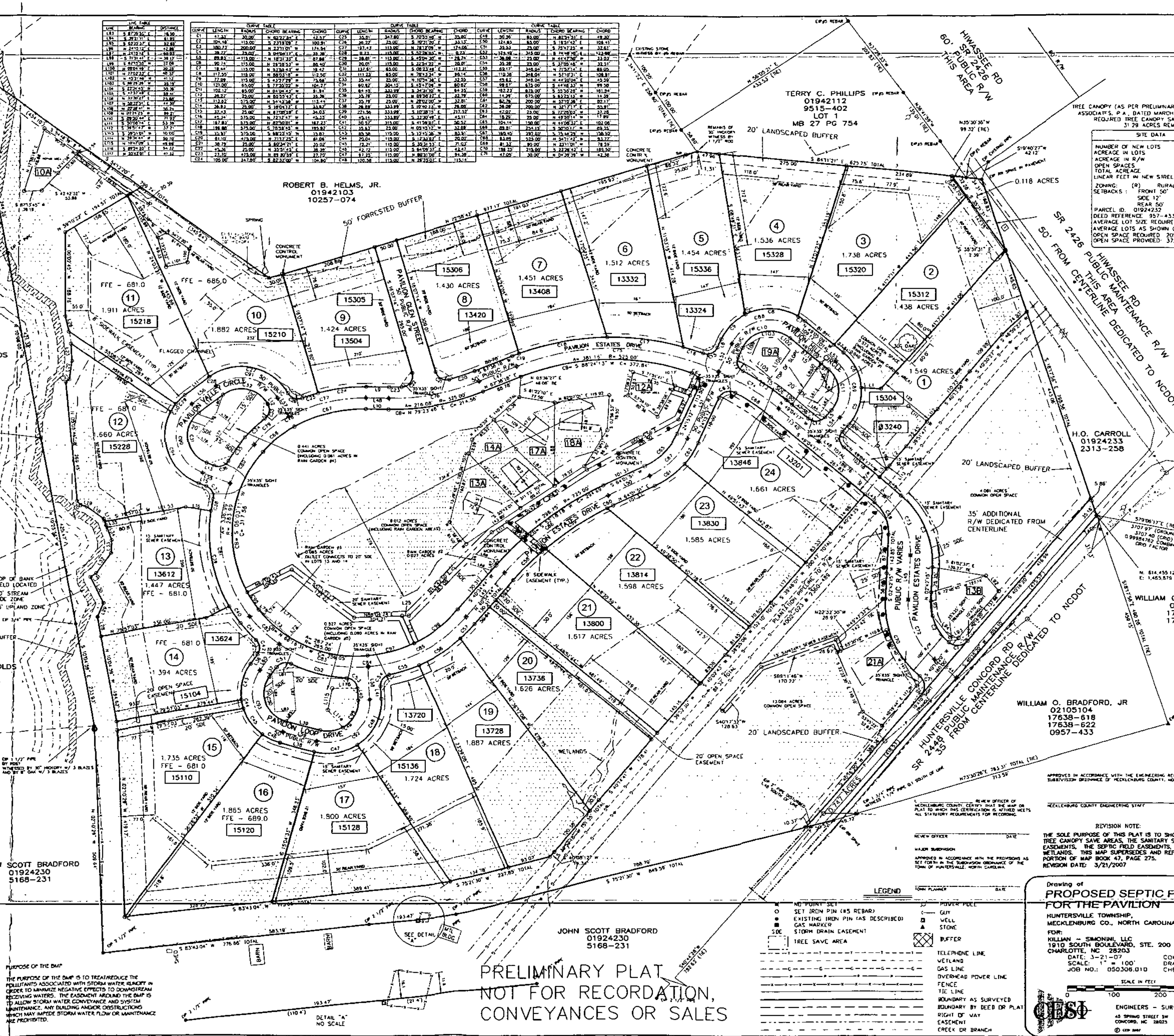
VICINITY MAP
NO SCALE



| LINE TABLE | | |
|---|---|---|
| LINE | BEARING | DISTANCE |
| L93 | S 87°25'52" E | 18.50' |
| L94 | S 29°21'11" E | 61.85' |
| L95 | S 07°35'37" E | 52.85' |
| L96 | N 24°13'12" E | 42.86' |
| L97 | N 24°13'12" E | 60.03' |
| L98 | S 21°31'41" E | 39.17' |
| L99 | S 87°35'50" W | 22.08' |
| L100 | N 08°04'49" E | 30.35' |
| L101 | N 77°02'32" E | 48.32' |
| L102 | N 45°21'46" W | 41.13' |
| L103 | S 22°34'45" W | 35.19' |
| L104 | S 22°34'45" W | 55.36' |
| L105 | S 48°29'36" W | 59.41' |
| L106 | N 35°30'27" E | 75.86' |
| L107 | N 30°12'51" E | 44.30' |
| L108 | N 22°48'41" W | 56.24' |
| L109 | N 27°24'23" W | 89.21' |
| L110 | N 08°20'44" E | 71.92' |
| L111 | S 50°08'14" E | 53.39' |
| L112 | S 39°51'47" W | 37.21' |
| L113 | S 29°21'01" W | 10.00' |
| L114 | S 39°34'44" W | 50.70' |
| L115 | N 10°42'09" E | 49.86' |
| L116 | S 89°24'20" E | 54.32' |
| L117 | N 22°42'01" E | 41.32' |

| CURVE TABLE | | | | | CURVE TABLE | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CURVE | LENGTH | RADIUS | CHORD BEARING | CHORD | CURVE | LENGTH | RADIUS | CHORD BEARING | CHORD |
| C1 | 47.33' | 30.00' | N 82°27'54" E | 42.57' | C25 | 35.81' | 347.80' | S 70°35'40" W | 35.80' |
| C2 | 104.44' | 115.00' | S 23°19'09" E | 100.91' | C26 | 36.22' | 25.00' | S 70°31'20" E | 33.13' |
| C3 | 180.73' | 200.00' | N 23°11'01" W | 174.64' | C27 | 197.43' | 115.00' | N 78°12'09" W | 174.08' |
| C4 | 38.72' | 25.00' | S 04°04'17" E | 35.36' | C28 | 0.73' | 115.00' | S 52°28'03" W | 0.73' |
| C5 | 89.83' | 115.00' | N 18°31'33" E | 87.66' | C29 | 38.81' | 115.00' | S 45°04'30" W | 28.74' |
| C6 | 90.74' | 115.00 | N 28°20'53" W | 88.40' | C30 | 20.01' | 115.00 | S 32°34'22" W | 20.01' |
| C7 | 18.44' | 115.00 | N 53°59'43" W | 18.42 | C31 | 137.61' | 65.00 | S 08°23'49" E | 113.31' |
| C8 | 117.55' | 115.00' | N 88°03'18" W | 112.50' | C32 | 111.23' | 65.00' | N 78°43'34" W | 98.14' |
| C9 | 77.09 | 115.00' | S 43°27'28" W | 75.64' | C33 | 35.44' | 25.00' | N 10°54'36" E | 32.55 |
| C10 | 121.00' | 65.00' | S 77°35'02" W | 104.27' | C34 | 60.82' | 304.13' | S 45°47'09" W | 60.67' |
| C11 | 102.12' | 65.00' | N 04°04'43" W | 91.94' | C35 | 84.45' | 333.99' | S 34°31'10" W | 84.35' |
| C12 | 38.27' | 25.00' | N 85°35'42" E | 35.36' | C36 | 35.78' | 25.00' | N 58°38'22" E | 32.79' |
| C13 | 113.82' | 575.00' | N 54°43'56" W | 113.44' | C37 | 35.79' | 25.00' | N 20°02'00" W | 32.81' |
| C14 | 36.83 | 25.00' | S 18°04'12" E | 33.67' | C38 | 28.88' | 333.89' | S 10°40'23" W | 28.00' |
| C15 | 37.43 | 25.00' | N 87°06'59" E | 34.03' | C39 | 221.56 | 333.99' | S 10°38'15" E | 217.22' |
| C16 | 45.34' | 575.00 | N 72°12'47" W | 45.33' | C40 | 45.14 | 333.89' | S 33°30'49" E | 45.11' |
| C17 | 187.83' | 575.00' | N 82°50'01" W | 187.23' | C41 | 50.57' | 315.00' | S 41°59'07" E | 50.57 |
| C18 | 196.80' | 575.00' | S 76°38'45" W | 195.82' | C42 | 35.63' | 25.00' | N 05°45'12" W | 32.88' |
| C19 | 35.87' | 575.00 | S 88°23'45" W | 35.87 | C43 | 85.30 | 115.00 | S 15°45'36" W | 83.31' |
| C20 | 81.10' | 475.00' | N 71°17'25" E | 81.06' | C44 | 22.04 | 115.00' | S 12°33'02" E | 20.02' |
| C21 | 38.79' | 25.00' | S 80°34'21" E | 35.02' | C45 | 72.21' | 115.00' | S 35°31'53" E | 71.03' |
| C22 | 45.36' | 25.00' | N 35°51'43" E | 38.39' | C46 | 42.72 | 115.00' | S 64°09'37" E | 42.47 |
| C23 | 27.70' | 475.00' | N 89°30'59" E | 27.72' | C47 | 97.25' | 115.00' | N 80°31'00" E | 94.39' |
| C24 | 105.00' | 347.80' | S 82°32'00" W | 104.80' | C48 | 120.58 | 115.00' | N 28°35'07" E | 115.14' |

| CURVE TABLE | | | | |
|---|---|---|---|---|
| CURVE | LENGTH | RADIUS | CHORD BEARING | CHORD |
| C49 | 35.36' | 25.00' | N 82°53'31" E | 32.30' |
| C50 | 124.89' | 85.00' | S 15°31'42" E | 108.41' |
| C51 | 35.53' | 25.00' | S 75°47'25" W | 32.61' |
| C52 | 129.59' | 315.00' | [illegible] | 123.88' |
| C53 | 38.08' | 25.00' | [illegible] | 33.03' |
| C54 | 35.38' | 25.00' | S 37°05'48" E | 32.53' |
| C55 | 62.17' | 348.04' | N 21°52'14" E | 62.05' |
| C56 | 119.38' | 348.04' | N 32°13'14" E | 108.81' |
| C57 | 45.63' | 348.04' | [illegible] | 45.59' |
| C58 | 99.67' | 525.00' | S 44°48'33" W | 99.50' |
| C59 | 182.23' | 675.00' | S 53°28'28" W | 181.84' |
| C60 | 14.39' | 200.00' | [illegible] | 14.39' |
| C61 | 82.76' | 200.00' | [illegible] | 82.17' |
| C62 | 38.08' | 25.00' | [illegible] | [illegible] |
| C63 | 47.02' | 25.00' | [illegible] | [illegible] |
| C64 | 15.79' | 25.00' | [illegible] | [illegible] |
| C65 | 104.16' | 25.00' | [illegible] | [illegible] |
| C66 | 89.81' | [illegible] | [illegible] | [illegible] |
| C67 | 160.82' | [illegible] | [illegible] | [illegible] |
| C68 | 93.13' | 525.00' | [illegible] | [illegible] |
| C69 | 81.33' | 80.00' | [illegible] | [illegible] |
| C70 | 198.25' | 175.00' | [illegible] | [illegible] |
| C71 | 47.05' | 30.00' | [illegible] | [illegible] |




TREE CANOPY (AS PER PRELIMINARY SKETCH PLAN BY ESP ASSOCIATES, P.A. DATED MARCH 1, 2005)62.58 ACRES
REQUIRED TREE CANOPY SAVE AREA = 50%
31.29 ACRES REMAINING

| SITE DATA | |
|---|---|
| NUMBER OF NEW LOTS | 24 |
| ACREAGE IN LOTS | 38.924 |
| ACREAGE IN R/W | 7.547 |
| OPEN SPACES | 27.816 |
| TOTAL ACREAGE | 74.287 |
| LINEAR FEET IN NEW STREETS | 5670 |
| ZONING: (R) | RURAL |
| SETBACKS: | FRONT 50' SIDE 12' REAR 50' |
| PARCEL ID. | 01924232 |
| DEED REFERENCE | 957-433 |
| AVERAGE LOT SIZE REQUIRED | 1.0 ACRES |
| AVERAGE LOTS AS SHOWN ON PLAT | 1.627 ACRES |
| OPEN SPACE REQUIRED | 20% |
| OPEN SPACE PROVIDED | 37.4% |

CERTIFICATE OF OWNERSHIP AND DEDICATION.

I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY SHOWN AND DESCRIBED HEREON AND DESCRIBED HEREON AND THAT I HEREBY ADOPT THIS PLAN OF SUBDIVISION WITH MY FREE CONSENT, AND DEDICATE ALL STREETS, ALLEYS, WALKS, PARKS, AND OTHER SITES AND EASEMENTS TO PUBLIC OR PRIVATE USE AS NOTED. FURTHERMORE, I DEDICATE ALL SEWER LINES AND ALL WATER LINES TO THE CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT, IF APPLICABLE.

DATE OWNER

NOTES.

(1) TRAVERSE ADJUSTED BY THE LEAST SQUARES ADJUSTMENT METHOD.

(2) AREAS DETERMINED BY COORDINATE COMPUTATIONS.

(3) ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCE UNLESS OTHERWISE NOTED

(4) SOURCE FOR PLANTATION PIPELINE LOCATIONS UNDERGROUND LOCATIONS IS IS PLANTATION PIPELINE R/W AGENT GENE ALDRIDGE, GREENSBORO OFFICE. CONCORD ENGINEERING AND SURVEYING, INC. IS RESPONSIBLE FOR THE LOCATION OF PLANTATION PIPELINE MARKINGS AND NOT THE ACTUAL LOCATION OF THE UTILITIES BEING MARKED. THERE MAY BE OTHER UNDERGROUND UTILITIES ON THIS SITE OTHER THOSE SHOWN. BEFORE DOING ANY DIGGING CALL NC ONECALL(1-800-632-4949)

(5) AREA IS LOCATED IN ZONE X (AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOOD PLAIN). AREAS OUTSIDE THE FUTURE 1% ANNUAL CHANCE FLOOD PLAIN) AS SHOWN ON F.I.R.M. PANEL 3711[illegible] EFFECTIVE DATED FEBRUARY 4, 2004

(6) THE COMMON OPEN SPACE AS SHOWN, ANY LANDSCAPING WITHIN THE RIGHT OF WAYS, AND THE SDE'S AND RAIN GARDENS WILL BE MAINTAINED BY THE PAVILION'S HOMEOWNERS ASSOCIATION COMMON OPEN SPACE IS DEDICATED IN PERPETUITY.

(7) GARAGES WILL MEET REQUIREMENTS OF 8.16 IN THE TOWN OF HUNTERSVILLE ZONING ORDINANCE.

(8) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHT OF WAYS.

(9) NO DIRECT ACCESS TO LOTS FROM THOROUGHFARE IS PROHIBITED.

(10) DECLARATION OF COVENANTS FOR MAINTENANCE OF WATER QUALITY CONTROL STRUCTURES RECORDED IN DEED BOOK 21452 PAGE 649 MECKLENBURG COUNTY REGISTER OF DEEDS

REFERENCES

(1) DEEDS SHOWN HEREON

(2) MECKLENBURG COUNTY GIS TAX INFORMATION

(3) PLAT ENTITLED "RECORD PLAT OF EWART AND MOORE PROPERTY MAP DATED AUGUST 6, 1996 BY PYRAMID LAND SURVEYING AND RECORDED IN MAP BOOK 27 PAGE 754 MECKLENBURG COUNTY REGISTER OF DEEDS

(4) PLAT ENTITLED "BOUNDARY SURVEY PROPERTY OF JOHN WILLIAM MOTLEY SR & w1 BOBBIE CANNON MOTLEY" DATED DECEMBER 09, 1998 BY PYRAMID LAND SURVEYING

(5) RIGHT OF WAY INFORMATION OBTAINED FROM NCDOT RIGHT OF WAY OFFICE IN THE ALBEMARLE, NC OFFICE.

(6) PLAT ENTITLED "BOUNDARY SURVEY FOR KILLIAN-SIMONINI, LLC" BY CONCORD ENGINEERING AND SURVEYING, INC DATED 03-22-2005

PLAT CERTIFICATION
I, JAMES E. CRADDOCK, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK 957 PAGE 433); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN [illegible]; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G. S. 47-30 AS AMENDED; AND THAT:
A. THE SURVEY CREATES A SUBDIVISION OF LAND WITHIN THE AREA OF A COUNTY OR MUNICIPALITY THAT HAS AN ORDINANCE THAT REGULATES PARCELS OF LAND.
WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 30TH DAY OF JUNE, A.D. 2006

PROFESSIONAL LAND SURVEYOR LICENSE NO. L-3039

PAVILION GLEN STREET (STUB STREET) SHALL BE DESIGNED AND CONSTRUCTED PRIOR TO RELEASING THE SUBDIVISION BOND. CERTIFICATE OF OCCUPANCIES FOR LOTS 8 AND 9 WILL BE ISSUED ONCE THE DESIGN OF PAVILION GLEN STREET IS COMPLETE.

| CURVE TABLE | | | | CURVE TABLE | | | |
|---|---|---|---|---|---|---|---|
| CURVE | LENGTH | RADIUS | CHORD | CURVE | LENGTH | RADIUS | CHORD |
| C72 | 150.99 | 165.00 | S23°38'42"E 145.78 | C86 | 266.52 | 700.00 | S52°18'18"W 264.52 |
| C73 | 149.10 | 165.00 | N23°11'01"W 144.08 | C87 | 121.49 | 175.00 | N44°08'32"E 119.07 |
| C74 | 154.09 | 550.00 | N57°05'30"W 153.59 | C88 | 167.54 | 90.00 | S77°35'02"W 144.38 |
| C75 | 453.77 | 550.00 | N88°49'34"W 441.01 | C89 | 141.39 | 90.00 | N04°04'43"W 127.30 |
| C76 | 205.79 | 500.00 | N79°23'46"E 204.34 | C90 | 190.53 | 90.00 | S08°23'49"E 156.89 |
| C77 | 173.93 | 322.64 | S75°44'29"W 171.83 | C91 | 154.01 | 90.00 | N78°43'34"W 135.89 |
| C78 | 0.19 | 279.15 | S60°16'34"W 0.19 | C92 | 170.67 | 90.00 | N50°52'28"E 146.22 |
| C79 | 98.46 | 279.15 | S50°09'07"W 97.95 | C93 | 172.64 | 90.00 | S19°51'42"E 147.34 |
| C80 | 102.77 | 308.99 | S30°31'08"W 102.30 | C94 | 194.61 | 175.00 | S20°33'57"E 184.61 |
| C81 | 314.82 | 308.99 | S09°11'52"E 301.38 | C95 | 46.81 | 283.99 | S32°39'49"E 46.76 |
| C82 | 99.46 | 290.00 | S46°13'23"E 99.11 | C96 | 23.10 | 25.00 | N02°18'42"W 22.36 |
| C83 | 201.05 | 290.00 | S74°55'16"E 197.05 | C97 | 106.70 | 298.04 | N74°34'45"E 106.13 |
| C84 | 1.94 | 290.00 | N85°01'36"E 1.94 | C98 | 123.51 | 298.04 | N52°27'04"E 122.63 |
| C85 | 249.52 | 323.84 | N62°42'23"E 243.37 | C99 | 72.70 | 65.00 | N28°35'17"E 68.97 |

PURPOSE OF THE BMP

THE PURPOSE OF THE BMP IS TO TREAT/REDUCE THE POLLUTANTS ASSOCIATED WITH STORM WATER RUNOFF IN ORDER TO MINIMIZE NEGATIVE EFFECTS TO DOWNSTREAM RECEIVING WATERS. THE EASEMENT AROUND THE BMP IS TO ALLOW STORM WATER CONVEYANCE AND SYSTEM MAINTENANCE. ANY BUILDING AND/OR OBSTRUCTIONS WHICH MAY IMPEDE STORM WATER FLOW OR MAINTENANCE ARE PROHIBITED.

PRELIMINARY PLAT
NOT FOR RECORDATION,
CONVEYANCES OR SALES

MECKLENBURG COUNTY, CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING. REVIEW OFFICER OF

REVIEW OFFICER DATE

MAJOR SUBDIVISION

APPROVED IN ACCORDANCE WITH THE PROVISIONS AS SET FORTH IN THE SUBDIVISION ORDINANCE OF THE TOWN OF HUNTERSVILLE, NORTH CAROLINA

TOWN PLANNER DATE

APPROVED IN ACCORDANCE WITH THE ENGINEERING REQUIREMENTS OF THE SUBDIVISION ORDINANCE OF MECKLENBURG COUNTY, NORTH CAROLINA

MECKLENBURG COUNTY ENGINEERING STAFF DATE

REVISION NOTE:

THE SOLE PURPOSE OF THIS PLAT IS TO SHOW THE TREE CANOPY SAVE AREAS, THE SANITARY SEWER EASEMENTS, THE SEPTIC FIELD EASEMENTS, AND THE WETLANDS. THIS MAP SUPERSEDES AND REPLACES THIS PORTION OF MAP BOOK 47, PAGE 275.
REVISION DATE: 3/21/2007

LEGEND

| | |
|---|---|
| ■ | NO POINT SET |
| ○ | SET IRON PIN (#5 REBAR) |
| ● | EXISTING IRON PIN (AS DESCRIBED) |
| ■ | GAS MARKER |
| SDE | STORM DRAIN EASEMENT |
| | TREE SAVE AREA |
| | POWER POLE |
| | GUY |
| | WELL |
| ▲ | STONE |
| | BUFFER |
| | TELEPHONE LINE |
| | WETLAND |
| | GAS LINE |
| | OVERHEAD POWER LINE |
| | FENCE |
| | TIE LINE |
| | BOUNDARY AS SURVEYED |
| | BOUNDARY BY DEED OR PLAT |
| | RIGHT OF WAY |
| | EASEMENT |
| | CREEK OR BRANCH |

Drawing of
**PROPOSED SEPTIC FIELDS FOR THE PAVILION**
HUNTERSVILLE TOWNSHIP,
MECKLENBURG CO., NORTH CAROLINA
FOR:
KILLIAN - SIMONINI, LLC
1910 SOUTH BOULEVARD, STE. 200
CHARLOTTE, NC 28203

DATE: 3-21-07
SCALE: 1" = 100'
JOB NO.: 050306.010

COMPUTED BY: DLH
DRAWN BY: DLH
CHECKED BY: JEC

SCALE IN FEET 0 100 200 300

CESI
ENGINEERS - SURVEYORS - PLANNERS
45 SPRING STREET SW CONCORD, NC 28025
CONCORD (704) 788-3404 FAX (704) 784-7454
© CEI 2007

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

# IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30001776** GWS File #: **6899B** Tax Parcel #: **019-243-04**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

**I. This Improvement Permit Shall:** Expire in Five (5) Years **Expiration Date (If Applicable):** 4/9/2012

Type of Installation: Residential - New System Lot Number: 21

Structure Type: HOUSE Size ($ft^2$): 0 # Bedrooms: 5 # Occupants: 4

Building Foundation: Basement With Plumbing Water Supply: Private Well

**II. Initial System Type:** Pump to Approved Accepted **System Classification:** IIIb

Initial System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 600 | LTAR (gpd/$ft^2$): | 0.3 | Septic Tank Size (gal): | 1500 | Pump Tank Size (gal): | 1500 |
| Trench Width (ft): | 3 | Trench Spacing (ft): | 9 | Absorption Area ($ft^2$): | 1500 | Total Trench Length (ft): | 500 |
| Maximum Trench Depth (in): | 30 | Depth of Media (in): | 12 | Distribution Device: | Pressure Manifold | | |

**III. Repair System Type:** Pump to Approved Accepted **System Classification:** IIIb

Repair System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 600 | LTAR (gpd/$ft^2$): | 0.3 | Septic Tank Size (gal): | 1500 | Pump Tank Size (gal): | 1500 |
| Trench Width (ft): | 3 | Trench Spacing (ft): | 9 | Absorption Area ($ft^2$): | 1500 | Total Trench Length (ft): | 500 |
| Maximum Trench Depth (in): | 30 | Depth of Media (in): | 12 | Distribution Device: | Pressure Manifold | | |

**IV. Permit Conditions/Comments:**

*(Please See the Following Page for Permit Conditions.)*

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michelone

Signature: Jeremy Michelone, R.S.

Date Issued: 4/9/2007

Owner/Legal Agent: Rick Jasinski
Print Name

Signature: Rick Jasinski

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

## IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30001776** GWS File #: **6899B**

**IV. Permit Conditions/Comments:**

- Easement agreement forms shall be on file and the property shall be deeded and recorded prior to issuance of Construction Authorization.
- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michelone

Signature: Jeremy Michelone R.S.

Date Issued: 4/9/2007

Owner/Legal Agent: Rick Jasinski

Print Name

Signature: Rick Jasinski

SIMONINI BUILDERS

# Fax

DATE: 4/3/07

# PAGES: 6 (including cover page)

TO: Kelly Randall

COMPANY: Mecklenburg County

FAX #:

FROM:

Rick Jasinski
*Project Manager*
1910 South Boulevard Suite 200
Charlotte, N.C. 28203
704-358-9940
Fax 704-358-9978
~~Direct Fax 704-358-9975~~
Cellular 704-201-8976
Nextel 156*21*38976
rjasinski@simonini.com
www.simonini.com

MESSAGE: Kelly

This is a copy of the encroachment aggreement we have with Colonial pipeline to cross their gas lines. We will be using 2 of the existing sleeves in order to cross their gas lines with the offsite septic piping. Please let me know if you need anything else, or have further questions or concerns.

Thanks

Rick Jasinski

**ROW-F02**

# Colonial Pipeline Company

## *Encroachment Agreement*

Colonial Pipeline Company
7524 Keustead Circle
PO Box 87
Paw Creek, NC, 28130

Encroachment No.: SED RNH-06-005
Date: 11-10-2006
Encroaching Party:
Duke Energy
182 Talbert Rd
Mooresville, NC, 28117

Re: Encroachment Agreement – CPC Loc. 0802, Tract No.74, Map 8, Line No.1, Station No 2122+00+/- in Mecklenburg County, N.C.

Colonial Pipeline Company presents no objection to your proposed crossings of primary electrical cable in steel casing on each side of unnamed entrance road to The Pavilion Subdivision encroaching upon Colonial's 36" & 40" petroleum products pipeline(s) as approved by Colonial's field representative, subject to the following conditions:

1. Notify State utilities protection center, in accordance with local, State and Federal laws. Colonial will not inspect or approve any work, *until a locate has been issued*. Notify Colonial **Representative** Riley Huckaby (704-363-8464) by phone at least two (2) working days prior to any construction, subsequent maintenance, or repair, so that Colonial may provide a representative on the site. If he cannot be reached, then notify Tom West; phone 336-931-6039.

2. No excavation or construction is permitted over Colonial's pipeline(s) or within its right of way without a Colonial representative being present. The location of the pipeline(s) shall be identified prior to the beginning of any mechanical excavation work. If the location of the pipeline(s) is not known, only hand excavation will be allowed. Based on circumstances at the encroachment site, Colonial's representative has the authority to determine the extent of hand excavation required. However, absent special permission from Colonial's Representative, no mechanized ditching or excavation shall be allowed within five (5) feet of the extremities of the pipeline(s). **IN ANY EVENT, ALL EXCAVATION WITHIN TWO (2) FEET OF THE PIPELINE(S) MUST BE ACCOMPLISHED BY HAND.** Where hand excavation is required, the encroaching party must provide adequate manpower to perform that work. Sub grading, grading, and placement of fill over Colonial's pipeline(s) will require the approval of Colonial's field representative as to method and extent.

3. Full access must be maintained to the pipeline(s) at all times. Stockpiling of fill, including spoil, or topsoil over the pipeline(s), is not permitted, unless approved by the Colonial representative.

4. Underground utilities (i.e. storm drains, water lines, telephone, electric, etc.) may cross the easement, providing they maintain a minimum vertical clearance of two (2) feet over or under Colonial's pipeline(s), and cross at as near a perpendicular angle as practical. Septic drain fields and or sewage drains used for percolation are not permissible inside the pipeline easement. All utility crossings of Colonial's pipeline(s) and respective easements must be constructed of galvanized steel, ductile iron, reinforced concrete, or concrete cased PVC for the entire width of the right of way being crossed.

5. Blasting within the immediate vicinity of Colonial's right of way shall be conditionally allowed. The contractor, planning blasting within 200 feet (61 m) of a pipeline or when scaled distance values at the pipeline are less than 50, must give advance notification of proposed blasting and submit a completed blasting plan (Form 3005), to be approved by Colonial, prior to the commencement of any blasting operations. A Colonial inspector is required to be on site to observe all drilling, loading, and blasting operations. The contractor shall provide in-progress seismic readings and blasting reports as required in Colonial Standard ES-13-108. All blasting operations must meet the requirements of this standard as well as Occupational Health and Safety regulations contained in CFR Title 29, Part 1926, Subpart U – Blasting and Use of Explosives.

6. Any erosion control measures required for your development including temporary diversion dikes, sediment traps, silt fences, gravel outlets, and emergency spillways that may influence or contribute to the degradation of Colonial's right of way will require the approval of Colonial's field representative as to equipment and method. Under no circumstances shall water be impounded on the pipeline(s) right of way.

7. Upon request of the encroaching party, landowner or their agents, Colonial will determine the approximate location of its pipeline(s) and right of way limits; however, in doing so, Colonial makes no warranty as to the accuracy of the locations and measurements given. Colonial also cannot provide assurance that its permanent line markers are positioned directly over its pipeline(s).

8. Original vegetation on Colonial's right of way shall not be disturbed except in areas of approved construction and approved equipment crossings. Highly visible plastic fence or other approved temporary barricade will be required at contractor's expense along Colonial's easement boundaries if Colonial's field representative deems it necessary, to ensure that contractor traffic does not travel over the pipeline(s).

9. Permanent structures are not permitted on the right of way. Manholes, junction boxes, valve boxes, fire hydrants, service meters, storm drain inlets, and utility poles are considered permanent structures. No fences or temporary structures shall be allowed in the right of way without the express approval of Colonial's representative. Temporary structures include such items as signs, trailers, temporary power poles, etc.

10. Heavy equipment shall not be permitted to operate over the pipeline(s) unless earth padding has been provided to protect the pipeline from vibrating. Temporary equipment crossings over the pipeline(s) are permitted with six (6) vertical feet of cover over the pipeline(s) at selected locations as approved by Colonial's field representative. Depth of pipe as determined by test

holes will determine amount of temporary fill required. Colored sheets of plastic shall be placed under the temporary fill at original grade so that original grade will not be disturbed when temporary fill is removed. No equipment or vehicles may be parked on the right of way. No material may be stored on the right of way.

11. The encroaching party acknowledges that Colonial's pipeline(s) have impressed electrical current for the protection of the steel. Only Colonial personnel will correct any loss of this protection caused by the encroaching party. The cost to correct this damage will be paid by the encroaching party.

12. Only low growing ornamental type shrubbery with a maximum expected height of four (4) feet shall be allowed within the right of way. In addition, no pipeline marker shall be obscured from public view.

13. Relocation or removal of Colonial's pipeline markers shall not be permitted without the approval of a Colonial representative. Pipeline markers made unusable or damaged shall be repaired or replaced at the encroaching party's expense.

14. Parallel occupancy of the pipeline's easement with road right of way, or utilities is not permitted. Crossing shall be as near as a perpendicular angle to the easement as practical

15. All proposed roadways and parking areas should maintain a minimum of five (5) feet from top of pipe to top of finished road surface and three (3) feet minimum vertical cover in open drainage or road ditches. Colonial's Engineering may increase these minimum requirements as determined by a stress analysis of the pipe, and other variable conditions and factors. Colonial may consider concrete protection slabs, per Colonial's specifications as an option, to be installed to protect the pipeline(s).

16. Any and all pipeline(s) within the proposed road, parking, or railway area, will be excavated and visually inspected, with the possible reapplication of pipeline coatings applied, by a Colonial contractor, at the full expense of the encroaching party. Colonial requires that the pipeline coating system be evaluated for suitability of service in relation to the proposed encroachment. Should Colonial deem that the coating system is insufficient due to increased soil stresses or other factors, Colonial will, at the developer's expense, upgrade the pipeline coating to accommodate the proposed encroachment. Colonial will backfill the inspected area to its standard, and will not be held responsible for compaction. (NOTE: A Pipeline Accommodation Agreement for reimbursement to Colonial shall be executed between Colonial and the encroaching party prior to such adjustment.)

17. Cover above the pipeline(s) shall be a minimum of four (4) feet, and in general a maximum of six (6) feet, unless approved by the Right of Way Coordinator

18. The burning of trash, debris, etc. shall not be permitted within Colonial's right of way

19. Should any damage occur to the herein permitted encroachment, as a result of Colonial exercising any of its rights at any time, Colonial will not be responsible for said damage, and

any expense or monetary cost involved in the repair of said damages will be borne by owners of said damaged encroachment.

20. Encroaching party agrees to defend and hold Colonial Pipeline Company harmless from all loss cost, or other expense, including personal property and bodily injuries, whether occurring to it or to Colonial, or the respective employees, agents and servants of either, or to third parties which are proximately caused by or arise from the installation, maintenance, or repair of the herein permitted works, with the exception of claims due to the sole negligence of Colonial Pipeline Company.

21. This approval is granted only to the extent of and with no actual or implied diminishment of Colonial's rights and interests and without either express or implied warranty.

22. Fences shall be constructed with gates sufficiently large enough to allow Colonial's personnel and equipment the right of ingress and egress. Fence posts shall be installed at least five (5) feet to the side of any pipeline, with the approval of the field representative.

23. If the approximate location of the pipeline(s) is required, steel prod bars, shovels, and electrical sending devices may be used by Colonial's field personnel only. It should be noted that these methods are only approximate and can be misleading. The exact location of the pipeline(s) can best be found with test pitting.

24. If test pitting is required to determine the exact location, and elevation, of the pipeline(s), the Encroaching party agrees to notify the undersigned at least two (2) working days in advance, so that he may provide a Colonial field representative to be at the site. This representative must be present during the test pitting for the protection of the pipeline(s), and for the common verification of its location. All costs for this test pitting, and for the Colonial representative, will be borne by the encroaching party. Any engineering based on Colonial or other design criteria stemming from the amount or location of this test pit data is the responsibility of the encroaching party.

25. Colonial reserves the right to open, cut, excavate and dig across the proposed road, railway sidewalks, avenues, utility lines, or any other encroachment herein granted by this agreement and in any such event, Colonial shall not be liable for the restoration of same, or the payment of any damages to the encroaching party.

26. Excavation or grading which might result in erosion or which could render the right of way inaccessible shall not be permitted unless the encroaching party agrees to restore the area and provide protection to Colonial's pipeline(s). Any erosion control measures within the right of way including diversion dikes, sediment traps, silt fences, gravel outlets, and emergency spillways will require approval of the Colonial representative, as to equipment and method

27. If construction on the aforementioned project is not initiated within one calendar year of the date of this letter of agreement, then Colonial Pipeline shall have the right to reconsider the conditions and privileges herein granted, and have full right to alter same, dependant upon current protocol.

28. The encroaching party agrees that all work on Colonial's right of way shall be performed in a Workmanlike manner and in compliance with all applicable government and industry standards and codes.

29. Upon failure of the encroaching party, owner or his agents to comply with any of the Terms of this Agreement, Colonial reserves the right to revoke this Agreement in its entirety, prevent same from continuing any activity in violation of the terms of this Agreement or its rights under its easements and prior agreements and make any necessary repairs or adjustments to its pipeline(s) or right of way with its own or contract forces at the expense of the party requesting the encroachment.

30. Colonial Pipeline Company will have the option of installing video surveillance camera(s) to provide continuous monitoring of its facilities.

31. In addition, the following special conditions shall apply, and be required for this project.

There will be 2-5" steel casing pipes (1 on each side of road) installed the entire width of Colonial's Right of Way plus an additional 5' past the ROW limits. Encroaching party may also install 2 additional 5" steel casing pipes for future use at the same time in same ditches.

Please signify acceptance of the above conditions by a proper official in the space provided below, and return to the Right of Way Coordinator's office. Colonial Pipeline will notify you to proceed with your project upon receipt of the signed original.

Sincerely,

Riley Huckaby

Colonial Pipeline Representative

ACCEPTED AND AGREED TO THIS 10th DAY OF NOVEMBER, 2006.

(Signature)

THE PAVILION OF HUNTERSVILLE, LLC
(Company)

BY: RAY A. KILLIAN, JR
(Name, typed or printed)

TITLE: MANAGER / MEMBER
(Typed or printed)

Original: Right of Way Department

# SEPTIC SYSTEM DESIGN REVIEW WORKSHEET

**File:** 6899B

**Address:** 13800 Pavilion Estates Dr.

**PID #:** 019-243-04

**Subdivision:** The Pavilion

**Lot #:** 21

**Comments:**

1. Off-site drain field for initial & repair systems. Will require easement forms and recordation prior to permit issuance.
2. 2 ½ " SCH 40 PVC supply piping specified by designer.

**Reviewed By:** Trevor Thomason TCT

**Date:** April 2, 2007

**Status:** **X Approved** **Disapproved** **Pending**

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

Sheet: 1 of 2
Property ID: 010-243-04
Lot #: 21
File #: 6899B
AppID: 1776

# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: The Pavilion of Huntersville
Applicant: S & ME, Jacob Presley
Address: 1910 S. Blvd, Ste 200, Charlotte, N. C. 28203
Date Evaluated: 2/14/07
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: 1.9a
Location of Site: 13800 Pavilion Estates Drive
Property Recorded:
Water Supply: [ ] Public [x] Individual [x] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] 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 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS, 10 | 0-4 | GR/SCL | FR/SEXP/SS/SP | >6" TO SOIL WETNESS | 6+ | N/A | NONE | US |
| | | 4-6 | SBK/C | VFI/EXP/VS/VP | | | | | |
| 2 | LS, 8 | 0-4 | GR/SCL | FR/SEXP/SS/SP | >38" TO SOIL WETNESS | 38 | " | " | PS, IV |
| | | 4-38 | SBK/C | FI/SEXP/S/P | | | | | .3GPD/FT$^2$ |
| 3 | " | 0-3 | GR/SCL | FR/SEXP/SS/SP | >48" TO SOIL WETNESS | 48 | " | " | " |
| | | 3-39 | SBK/C | FI/SEXP/S/P | | | | | |
| | | 39-48 | SBK/SCL | FR/SEXP/SS/SP | | | | | |
| 4 | " | 0-4 | GR/SCL | FR/SEXP/SS/SP | " | " | " | " | " |
| | | 4-28 | SBK/C | FI/SEXP/S/P | | | | | |
| | | 28-48 | SBK/CL | FR/SEXP/SS/SP | | | | | |
| | | | | | SITE LTAR .3GPD/FT$^2$ | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | 1116 | 1116 |
| Site LTAR | 0.3 | 0.3 |

Other Factors (.1946):
Soil Evaluation By: W. R. Marlin, LSS, 2/14/2007.
Others Present:
Site Classification (.1948): P. S.
Site Evaluation By:
Others Present:

**COMMENTS:**

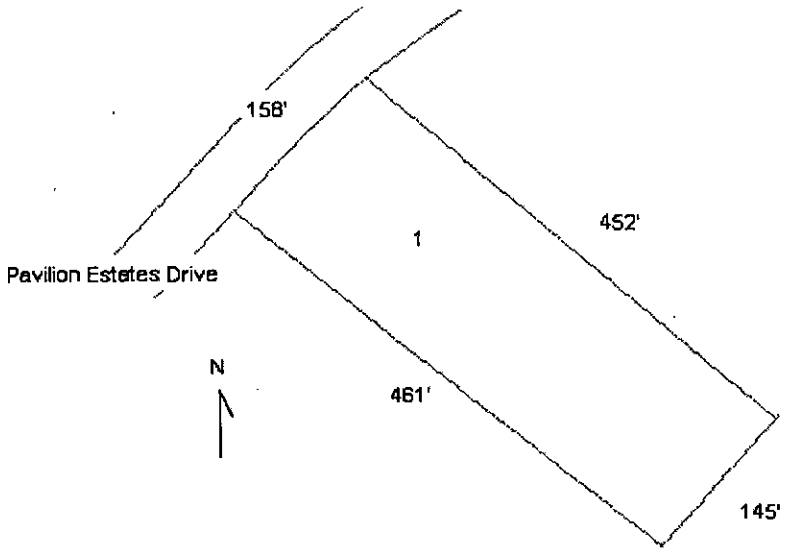
100% repair, drainfield areas to left of entrance at Huntersville-Concord Road

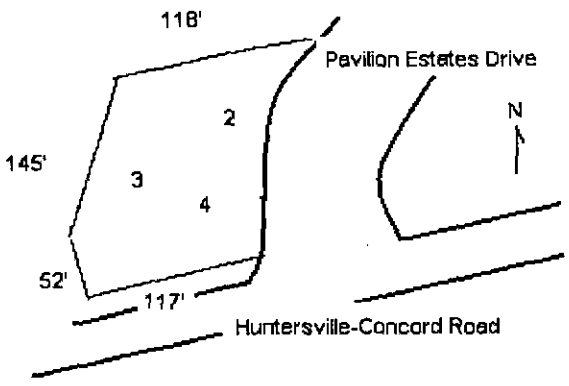
| Landscape Position | Group | Texture | .1955 LTAR |
|---|---|---|---|
| R-Ridge | I | S-Sand | 1.2 - 0.8 |
| SS-Shoulder Slope | | LS-Loamy Sand | |
| LS-Linear Slope | | | |
| FS-Foot Slope | II | SL-Sandy Loam | 0.8 - 0.6 |
| NS-Nose Slope | | L-Loam | |
| HS-Head Slope | | | |
| CC-Concave Slope | III | SI-Silt | 0.6 - 0.3 |
| CV-Convex Slope | | SICL-Silty Clay Loam | |
| T-Terrace | | | |
| FP-Flood Plain | | CL-Clay Loam | |
| | | SCL-Sandy Clay Loam | |
| | IV | SC-Sandy Clay | 0.4 - 0.1 |
| | | SIC-Silty Clay | |
| | | C-Clay | |

**Structure**
SG-Single Grain
M-Massive
CR-Crumb
GR-Granular
SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic

| Consistence Moist | Consistence Wet | Mineralogy |
|---|---|---|
| VFR-Very Friable | NS-Non-Sticky | SEXP-Slightly Expansive |
| FR-Friable | SS-Slightly Sticky | EXP-Expansive |
| FI-Firm | S-Sticky | |
| VFI-Very Firm | VS-Very Sticky | |
| EFI-Extremely Firm | NP-Non-Plastic | |
| | SP-Slightly Plastic | |
| | P-Plastic | |
| | VP-Very Plastic | |

**Sketch of Soil Evaluation Locations**



GWS – RES. APP 07/05

SEPTIC FEE: 200 CK
DATE: 1/3/07
CRT [ ]

# PERMIT APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT / CONSTRUCTION AUTHORIZATION FOR ON-SITE WASTEWATER SYSTEM NEW WELL INSTALLATION OR REPAIR OF EXISTING WELL MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES

1776

FILE # 68998

WELL FEE: _____
DATE: _____
CRT [ ]

**SEPTIC / TYPE APPLICATION:** ☐ NONE ☑ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFY PLOT PLAN

**WELL / TYPE APPLICATION:** ☑ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

**JOB LOCATION INFORMATION:**

TAX/PARCEL #: 01924232P0
STREET ADDRESS: Pavilion Est. D.
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #: 21
TOWNSHIP:

☒ 0-MECKLENBURG ☐ 4-PINEVILLE
☐ 1-CHARLOTTE ☐ 5-MATTHEWS
☐ 2-DAVIDSON ☒ 6-HUNTERSVILLE
☐ 3-CORNELIUS ☐ 7-MINT HILL

**BUILDING INFORMATION:**

TYPE OF BUILDING:

☐ SINGLE MOBILE HOME (S) ☐ MODULAR HOME (M)
☐ DOUBLE WIDE (D) ☐ MULTIPLE FAMILY (U)
☑ HOUSE (H) ☐ OTHER

HEATED SQUARE FOOTAGE:
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

☐ CONCRETE SLAB ☒ BASEMENT WITH PLUMBING
☒ CRAWLSPACE ☐ BASEMENT WITH NO PLUMBING

**IF PLANNING TO EXPAND/ALTER THE EXISTING SYSTEM INDICATE THE FOLLOWING CHANGES:**

NUMBER OF BEDROOMS TO BE ADDED: NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:
WILL THERE BE A HOME BUSINESS IN THE RESIDENCE? ☐ YES ☑ NO TYPE:

**WATER SUPPLY:**

☐ MUNICIPAL (M) ☑ PUBLIC (C) ☐ PRIVATE WELL (P) ☐ SHARED WELL (S) ☐ OTHER 'SPRINGS' (O)

**PROPOSED USE OF WELL:** ☐ N/A ☐ IRRIGATION ☐ POTABLE ☐ GEOTHERMAL ☐ OTHER

**ARE ANY OF THE FOLLOWING LOCATED ON THE PROPERTY? IF SO, PLEASE SHOW LOCATION ON SITE PLAN/PLAT.**

| | | | | | |
|---|---|---|---|---|---|
| BURIED CABLES, LANDFILLS, STUMPHOLES | ☐ YES | ☑ NO | WELLS, SPRINGS, OR WATER LINES | ☐ YES | ☐ NO |
| EXISTING WASTEWATER SYSTEMS | ☐ YES | ☑ NO | DESIGNATED WETLANDS | ☐ YES | ☐ NO |
| EASEMENTS OR RIGHT-OF-WAYS | ☐ YES | ☑ NO | GRADING/SOIL REMOVAL PERFORMED | ☐ YES | ☑ NO |

**PROPERTY OWNER:**

NAME: The Pavilion of Huntersville
ADDRESS: 1910 S. Blvd. STE 200
CITY: Charlotte
STATE: NC ZIP: 28203
HOME PHONE: WORK PHONE: 704-358-9940
MOBILE PHONE: 704-201-8976 FAX: 704-358-9978

**LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:**

NAME: Jacob Presley, SRME, Inc.
ADDRESS: 3718 Old Battleground Rd.
CITY: Greensboro
STATE: NC ZIP: 27410
HOME PHONE: WORK PHONE: 336-288-7180
MOBILE PHONE: 336-312-1123 FAX: 336-288-8980

**WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?**
**WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?**

*An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature 12-22-06 Date

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT & NATURAL RESOURCES DIVISION
OF ENVIRONMENTAL HEALTH ON-SITE
WASTEWATER SECTION

*A Well Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature Date

MECKLENBURG COUNTY HEALTH DEPARTMENT
GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST., SUITE 211
CHARLOTTE, NC 28202 704-336-5103 / FAX: 704-336-6894