


15218 PAVILION VALLEY CR

01924314

1/10/2008

duponbj

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

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-8894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30001083 GWS File #: 6642B Tax Parcel #: 019-243-14

- 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):** 6/11/2012

*Type of Installation:* Residential - New System Lot Number: 11

Structure Type: HOUSE Size ($ft^2$): 0 # Bedrooms: 4 # Occupants: 8

Building Foundation: Basement With Plumbing Water Supply: Private Well

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

Initial System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 480 | LTAR (gpd/$ft^2$): | 0.25 | Septic Tank Size (gal): | 1500 | Pump Tank Size (gal): | 1500 |
| Trench Width (ft): | 3 | Trench Spacing (ft): | 8 | Absorption Area ($ft^2$): | 1440 | Total Trench Length (ft): | 480 |
| Maximum Trench Depth (in): | 24 | Depth of Media (in): | 12 | Distribution Device: | Pressure Manifold | | |

**III. Repair System Type:** Pretreatment with Drip Irrigation **System Classification:** Vd

Repair System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 480 | LTAR (gpd/$ft^2$): | 0.25 | Septic Tank Size (gal): | 1500 | Pump Tank Size (gal): | 1500 |
| Trench Width (ft): | 1 | Trench Spacing (ft): | 2 | Absorption Area ($ft^2$): | 3840 | Total Trench Length (ft): | 1920 |
| Maximum Trench Depth (in): | 6 | Depth of Media (in): | N/A | Distribution Device: | Headworks (Drip Irr. | | |

**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 Owner/Legal Agent: Rick Jasinski
(Print Name)

Signature: Jeremy Michelone Signature: Rick Jasinski

Date Issued: 6/11/2007

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700 N. Tryon St, Suite 211 Charlotte, NC 28202
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## IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30001083 GWS File #: 6642B

**IV. Permit Conditions/Comments:**

- 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.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This Improvement Permit is being issued based on a supplemental soil investigation performed by staff from our office.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- This septic system design requires pretreatment equipment to be installed. This equipment shall be installed as specified by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.

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- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Mighelone Owner/Legal Agent: Rick Jaworski
(Print Name)

Signature: Jeremy Mighelone Signature: Rick Jaworski

Date Issued: 6/11/2007

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 6642-B WASPS App #: 1083

Primary ES assigned to project: OJ

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: 8 Were sufficient auger borings made? | Yes ☑ | No ☐ | N/A ☐ |
| .1939(d), .1955, .1956, .1957 | LTAR .25 | 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: WC

Date performed: 6-1-07

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Building Foundation: Basement With Plumbing Water Supply: Private Well

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

*Initial System Specifications:*

Design Flow (gpd): 480 LTAR ($gpd/ft^2$): 0.25 Septic Tank Size (gal): 1500 Pump Tank Size (gal): 1500

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area ($ft^2$): 1440 Total Trench Length (ft): 480

Maximum Trench Depth (in): 24 Depth of Media (in): 12 Distribution Device: Pressure Manifold

**III. Repair System Type:** Pretreatment with Drip Irrigation **System Classification:** Vd

Repair System Specifications:

Design Flow (gpd): 480 LTAR ($gpd/ft^2$): 0.25 Septic Tank Size (gal): 1500 Pump Tank Size (gal): 1500

Trench Width (ft): 1 Trench Spacing (ft): 2 Absorption Area ($ft^2$): 3840 Total Trench Length (ft): 1920

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- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michelone Owner/Legal Agent: _____
Print Name

Signature: Jeremy Michelone Signature: _____

Date Issued: 6/11/2007

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DENR Authorized Agent: Jeremy Michelone Owner/Legal Agent: _____
Print Name

Signature: Jeremy Michelone R.S. Signature: _____

Date Issued: 6/11/2007

SEPTIC ENVIRONMENTAL SOLUTIONS

10 April AD, 2007

Mr. Trevor Thomason
Mecklenburg Environmental Health Division
Groundwater & Wastewater Services
700 N. Tryon Street, Suite 211
Charlotte, North Carolina 28202

Re: **Improvement Permit Application for Lot #11 Pavilion Estates Drive**
**For The Pavilion Subdivision, Parcel #023-201-02 PO,**
**MCHD File # Pending** 6642B
**Mecklenburg County, North Carolina**

15218 PAVILION VALLEY CIRCLE
019-243-14

Dear Mr. Thomason:

Thanks for your review and time in reference to Lot 11 at The Pavilion. Per Mr. Marlins soils report Septic Environmental Solutions, Inc. layout the entire septic system (initial and repair) in the field were Mr. Marlin had found suitable soils. Thanks Trevor for your concern in regarding shallow soils near the proposed treatment areas. As discussed we have proposed a subsurface drip septic system within the shallower soils and a 25% reduction septic system with the initial treatment area. All drainfield lines are marked in the field within setbacks see figure and design specification sheet. Thank you for your patience and cooperation in regards to this report. If you should have any questions concerning this report, or need further assistance, please call (704) 502-5588

Sincerely,

Kenneth L. Owens, L.S.S. #1134
North Carolina Soil Scientist

**GWS Septic System Design Review**

| **GWS File #:** 6642B | **Approved** | **Disapproved** |
|---|---|---|
| **Design Review:** | ☐ | ☐ |
| Field Review: 6/8/07 | ☒ | ☐ |

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

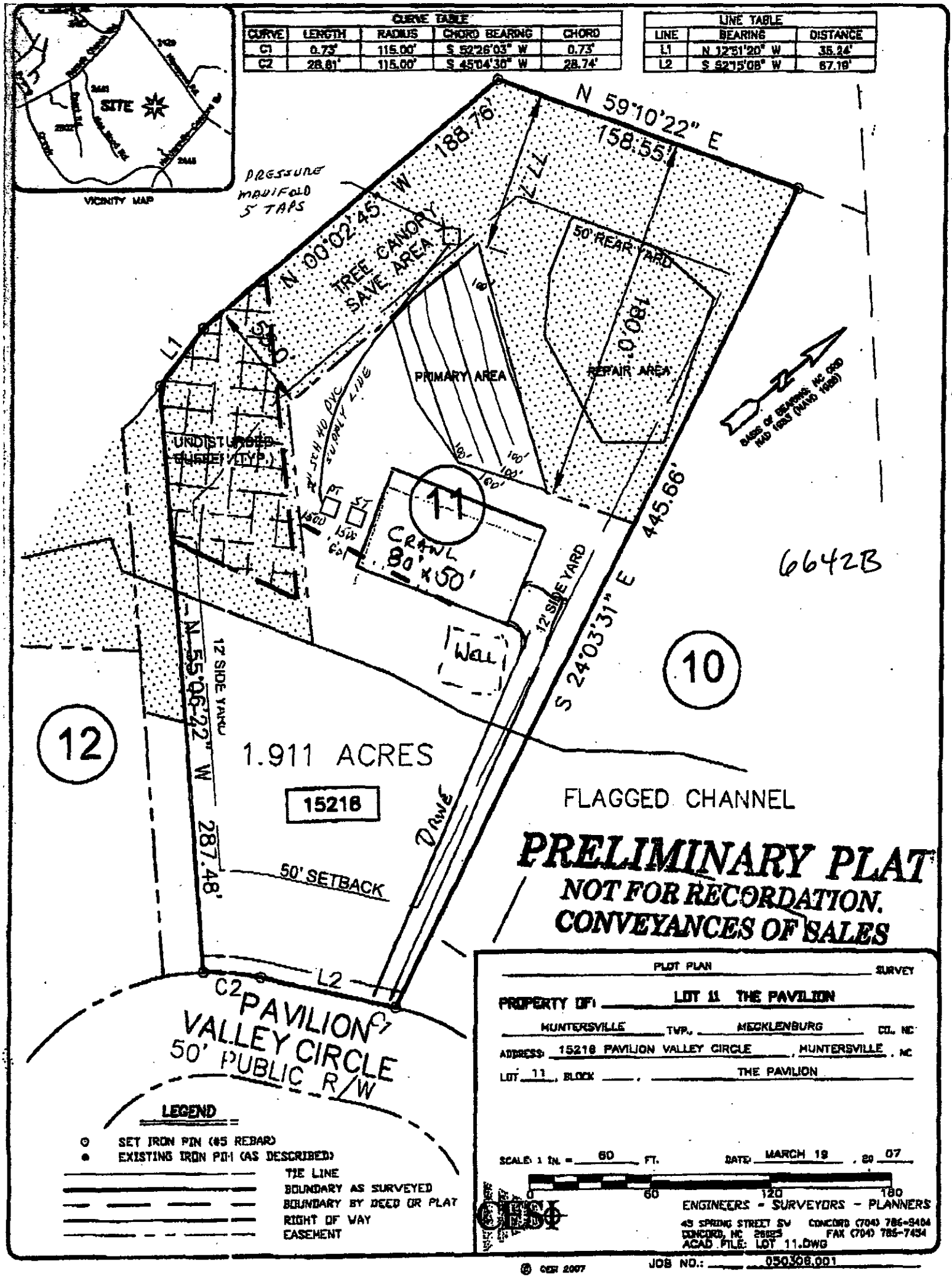
*PENDING APPROVAL 4-17-07 (CT)

6206 Birkdale Valley Drive Apt. 515 • Charlotte, North Carolina 28277
Office (704) 540-0771 • Mobile (704) 502-5588 • Fax (704) 541-8094
kennyowens@bellsouth.net

6642B

**Design Specifications for Lot 11 The Pavilion Subdivision, Huntersville North Carolina**

| | |
|---|---|
| Daily Design Flow:<br>Number of Bedrooms<br>Basement or Crawspace | 480 gpd<br>4 bedroom<br>Basement |
| Septic Tank Size<br>Pump Tank Size | 1500 gal<br>1500 gal |
| Primary System Loading Rate | 0.25 gpd/ft$^2$ per Mecklenburg County Soil/Site Evaluation 2/9/07 |
| Primary System | 25% reduction modified conventional, five100-foot drainfield lines to be a minimum of 9ft on center with 3ft wide trench widths |
| Number and Length of Lines | 5 @ 100ft ~~and one line at 40ft~~ |
| Total foot of Primary System | Need 480 provided 500ft ✓ |
| Pump Requirements | To be determined and calculated by the installer. |
| Dosing Volume | Approximately 2/3 of total drainfield (4dia pipe volume) = 208 gals per dose. |
| Pressure Manifold | five taps, 1/2" taps SCH 40 with flow rate of approximately 6.71-GPM per tap. |
| Depth of effluent Pumped per Dose | Contractor to verify tank dimensions to adequately set the depth of the effluent pump and drawdown per pump cycle. Estimated drawdown per pump cycle should be set approximately at 7-inches. |
| Check Valve | Yes |
| Siphon Break Hole | Yes |
| Repair System Loading Rate | 0.20 gpd/ft$^2$ |
| Repair System | Pretreatment subsurface drip. See scaled map for location. |
| Total foot of Repair | 1200ft |




# PRELIMINARY PLAT

**NOT FOR RECORDATION, CONVEYANCES OF SALES**

PLOT PLAN _____ SURVEY

PROPERTY OF: LOT 11 THE PAVILION

HUNTERSVILLE TWP., MECKLENBURG CO., NC

ADDRESS: 15218 PAVILION VALLEY CIRCLE, HUNTERSVILLE, NC

LOT 11, BLOCK ____, THE PAVILION

SCALE: 1 IN. = 60 FT. DATE: MARCH 19, 20 07

0 60 120 180

**LEGEND**

- SET IRON PIN (#5 REBAR)
- EXISTING IRON PIN (AS DESCRIBED)
- TIE LINE
- BOUNDARY AS SURVEYED
- BOUNDARY BY DEED OR PLAT
- RIGHT OF WAY
- EASEMENT


ENGINEERS - SURVEYORS - PLANNERS
45 SPRING STREET SW CONCORD (704) 786-8454
CONCORD, NC 28025 FAX (704) 786-7454
ACAD FILE: LOT 11.DWG


© CES 2007

JOB NO.: 050308.001

# Tri-County Wastewater Management, Inc.

pressbox
Pressure Manifold

704-821-8841

## *Specifications details - 1/2 inch taps*

### *Construction specifications*

Overall vault size: 24"x48"x24"
Vault material option #1: High Density Polyethylene
Vault material option #2: Double Choped Fiberglass
Vault lid type: Molded structural ribbed, "shoe box" type polypropylene
Vault weight - empty: < 100 pounds
Vault weight - built out <150 pounds
Effluent supply pipe size: 2-inch
Effluent supply pipe external connection type: Schedule 40 PVC, solvent weld, socket fit coupling
Pressure regulating valve size: 2-inch

Effluent supply line to pressure barrel transition connection type: Schedule 40 PVC bushing - 4"x2"
Pressure barrel size: 4-inch
Pressure barrel type: Schedule 80 PVC
Discharge tap size: 1/2-inch
Discharge tap type: Direct thread tap with NPTF threads
Discharge pipe type: Schedule 80 PVC
Discharge flow control device: Spears heavy duty "true union" ball valve, schedule 80, ring reinforced thread connection
Pressure discharge lines to external field supply lines transition connection type: Schedule 40 PVC bushing - 3"x1"
External field supply line connections: 3-inch, schedule 40 PVC, solvent weld, socket fit coupling
Pressure barrel clean-out type: 4-inch, schedule 40 PVC, 90 degree elbow, socket fit, with screw plug
Pressure head check size: 1/2-inch
Pressure head check tap type: Direct thread tap with NPTF threads
Pressure head check flow control device: Spears "true union" ball valve, schedule 80, ring reinforced thread connection
Pressure head check measurement tube type: Clear polyvinyl tubing with 12-inch increment markings
Pressure barrel support unit type: 4-inch double band "Click" PVC support stands

### *Performance specifications = Flow X Head (Seven pair maximum 1/2" taps)*

| | | | |
|---|---|---|---|
| Discharge tap flow - each | @ 2' ..... 5.48 gpm | @ 3' ..... 6.71 gpm | @ 4' ..... 7.75 gpm |
| Discharge tap flow - total 2 | @ 2' ..... 10.96 gpm | @ 3' ..... 13.42 gpm | @ 4' ..... 15.50gpm |
| Discharge tap flow - total 3 | @ 2' ..... 16.44 gpm | @ 3' ..... 20.13 gpm | @ 4' ..... 23.25gpm |
| Discharge tap flow - total 4 | @ 2' ..... 21.92 gpm | @ 3' ..... 26.84 gpm | @ 4' ..... 31.00gpm |
| Discharge tap flow - total 5 | @ 2' ..... 27.40 gpm | @ 3' ..... 33.55 gpm | @ 4' ..... 38.75gpm |
| Discharge tap flow - total 6 | @ 2' ..... 32.88 gpm | @ 3' ..... 40.26 gpm | @ 4' ..... 46.50gpm |
| Discharge tap flow - total 7 | @ 2' ..... 38.36 gpm | @ 3' ..... 46.97 gpm | @ 4' ..... 54.25gpm |
| Discharge tap flow - total 8 | @ 2' ..... 43.84 gpm | @ 3' ..... 53.68 gpm | @ 4' ..... 62.00gpm |
| Discharge tap flow - total 9 | @ 2' ..... 49.32 gpm | @ 3' ..... 60.39 gpm | @ 4' ..... 69.75gpm |
| Discharge tap flow - total 10 | @ 2' ..... 54.80 gpm | @ 3' ..... 67.10 gpm | @ 4' ..... 77.50gpm |
| Discharge tap flow - total 11 | @ 2' ..... 60.28 gpm | @ 3' ..... 73.81 gpm | @ 4' ..... 85.25gpm |
| Discharge tap flow - total 12 | @ 2' ..... 65.76 gpm | @ 3' ..... 80.52 gpm | @ 4' ..... 93.00gpm |
| Discharge tap flow - total 13 | @ 2' ..... 71.24 gpm | @ 3' ..... 87.23 gpm | @ 4' ..... 100.7gpm |
| Discharge tap flow - total 14 | @ 2' ..... 76.72 gpm | @ 3' ..... 93.94 gpm | @ 4' ..... 108.5gpm |

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

Sheet: 1 of 2
Property ID: PO 019-242-32
Lot #: 11
File #: 6642B
AppID: 1083
Code: 2

# SOIL/SITE EVALUATION
# for ON-SITE WASTEWATER SYSTEM

Owner: Simoni Builders
Applicant: Kenny Owens
Address: 1910 South Boulevard, Suite 200, Charlotte, N. C. 28203
Date Evaluated: 11/29/06
Proposed Facility: Residence
Design Flow (.1949): 480 GPD
Property Size: 1.91a
Location of Site: 15218 Pavilion Valley Circle
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, 8 | 0-4 | GR/SCL | FR/SEXP/SS/SP | 2.5Y6/1 at 13" | 13+ | N/A | NONE | US, IV |
| | | 4-13 | SBK/C | FI/SEXP/S/P | | | | | .1GPD/FT$^2$ |
| 2 | " | 0-3 | GR/SCL | FR/SEXP/SS/SP | 2.5Y7/1 at 18" | 24+ | " | " | " |
| | | 3-12 | SBK/C | " | | | | | |
| | | 12-24 | SBK/C | FI/SEXP/S/P | | | | | |
| 3 | " | 0-5 | GR/SCL | FR/SEXP/SS/SP | >42" TO SOIL WETNESS | 42 | " | " | PS, IV |
| | | 5-42 | SBK/C | FI/SEXP/S/P | | | | | .25GPD/FT$^2$ |
| 4 | " | 0-4 | GR/SCL | FR/SEXP/SS/SP | >45" TO SOIL WETNESS | 45 | " | " | " |
| | | 4-45 | SBK/C | FI/SEXP/S/P | | | | | |
| 5 | " | 0-6 | GR/SCL | FR/SEXP/SS/SP | >26" TO SOIL WETNESS | 26+ | " | " | US |
| | | 6-25 | SBK/C | FI/SEXP/S/P | | | | | |
| | | 25-27 | SBK/ABK/C | VFI/EXP/VS/VP | | | | | |
| 6 | LS, 5 | 0-4 | GR/SCL | FR/SEXP/SS/SP | >18" TO SOIL WETNESS | 18+ | " | " | " |
| | | 4-16 | SBK/SC | FI/SEXP/S/P | | | | | |
| | | 16-18 | SBK/SC | VFI/EXP/VS/VP | | | | | |
| 7 | " | 0-6 | GR/SCL | FR/SEXP/SS/SP | 2.5Y6/1 at 30" | 35 | " | " | US, IV |
| | | 6-28 | SBK/SC | FI/SEXP/S/P | | | | | .1GPD/FT$^2$ |
| | | 28-35 | SBK/C | VFI/EXP/VS/VP | | | | | |
| 8 | " | 0-6 | GR/SCL | FR/SEXP/SS/SP | >23" TO SOIL WETNESS | 23+ | " | " | US |
| | | 6-23 | SBK/SC | VFI/EXP/VS/VP | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | IIIb | Vc |
| Site LTAR | .25GPD/FT | .25GPD/FT$^2$ |

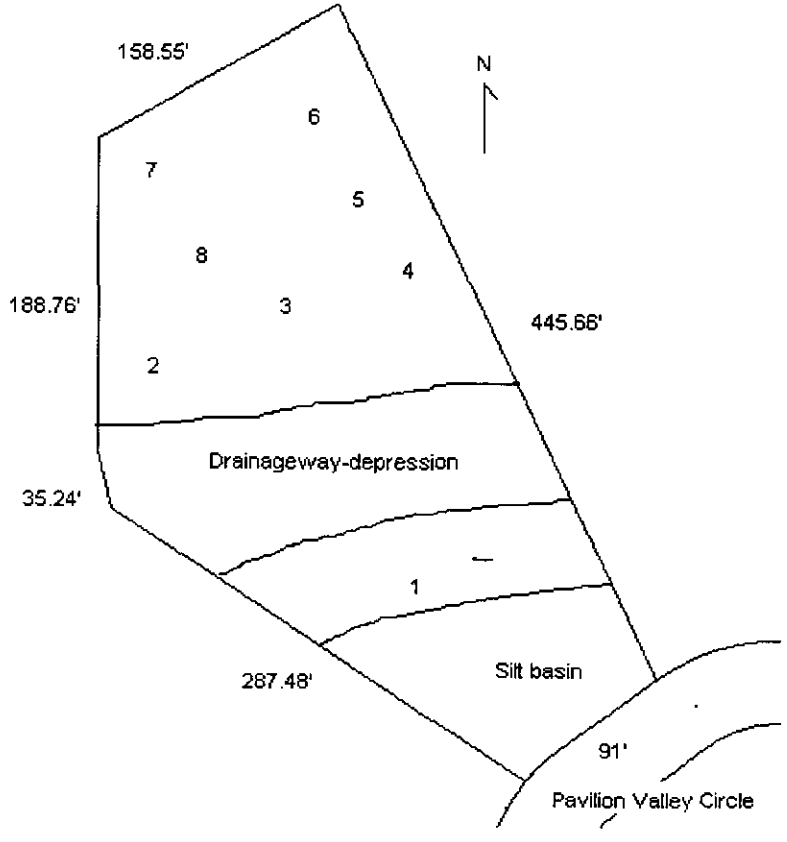
Other Factors (.1946):
Site Classification (.1948): PS
Evaluated By: W. R. Marlin, LSS, 12/4/2006
Others Present:

**COMMENTS:**
100% repair, house site not identified at time of investigation

| Landscape Position | Group | Texture | .1955 LTAR | Structure |
|---|---|---|---|---|
| R-Ridge | I | S-Sand | 1.2 - 0.8 | SG-Single Grain |
| SS-Shoulder Slope | | LS-Loamy Sand | | M-Massive |
| LS-Linear Slope | | | | CR-Crumb |
| FS-Foot Slope | II | SL-Sandy Loam | 0.8 - 0.6 | GR-Granular |
| NS-Nose Slope | | L-Loam | | SBK-Subangular Blocky |
| HS-Head Slope | | | | ABK-Angular Blocky |
| CC-Concave Slope | III | SI-Silt | 0.6 - 0.3 | PL-Platy |
| CV-Convex Slope | | SICL-Silty Clay Loam | | PR-Prismatic |
| 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 | | |

| 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**



#1083 #100 2nd pd 2nd soil

GWS – RES. APP 07/05

# 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

2/10/06

SEPTIC FEE: 240.00
DATE: 12/8/05
OPT: 1 2

WELL FEE:
DATE:
OPT:

FILE # 66428

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

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

**JOB LOCATION INFORMATION:**

019-243-14
TAX/PARCEL #: 01924232
STREET ADDRESS: Hunterville - Concord RD
CITY: Huntersville 15218 PAVILION VALLEY DR.
STATE: NC ZIP:
SUBDIVISION OR MOBILE HOME PARK NAME: The Pavilion
LOT #: 11
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: 5-4
NUMBER OF OCCUPANTS: 6

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: Simonini Builders
ADDRESS: 1910 South Boulevard Suite 200
CITY: Charlotte
STATE: NC ZIP: 28203 EXT 158
HOME PHONE: WORK PHONE: 704-358-3060
MOBILE PHONE: 704-756-9460 FAX: 704-358-4978
ACC # X39501

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

NAME: Kenny Owens
ADDRESS: 6206 Birkdale Valley Dr. APT #515
CITY: Charlotte
STATE: NC. ZIP: 28277
HOME PHONE: WORK PHONE: 704-540-[illegible]
MOBILE PHONE: 704-502-5588 FAX: 704-541-8094

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.

Kathy Owens 6-14-06
Owner's/Agent's Signature Date

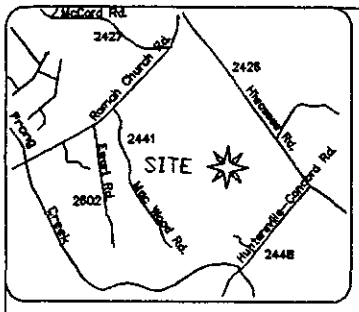
NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT & NATURAL RESOURCES DIVISION
OF ENVIRONMENTAL HEALTH ON-SITE
WASTEWATER SECTION

*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

0702

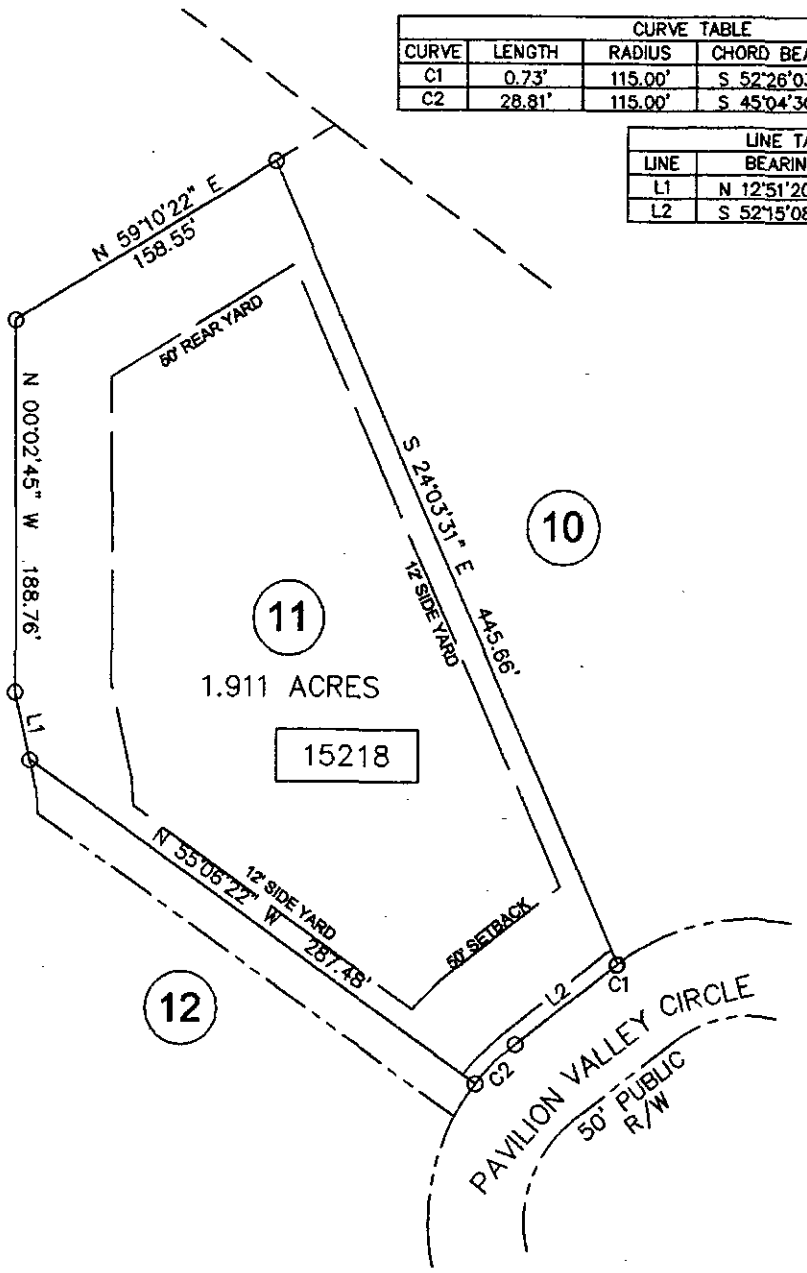


VICINITY MAP

| CURVE TABLE | | | | |
|---|---|---|---|---|
| CURVE | LENGTH | RADIUS | CHORD BEARING | CHORD |
| C1 | 0.73' | 115.00' | S 52°26'03" W | 0.73' |
| C2 | 28.81' | 115.00' | S 45°04'30" W | 28.74' |

| LINE TABLE | | |
|---|---|---|
| LINE | BEARING | DISTANCE |
| L1 | N 12°51'20" W | 35.24' |
| L2 | S 52°15'08" W | 67.19' |

66/28




LEGEND

- ⊙ SET IRON PIN (#5 REBAR)
- ● EXISTING IRON PIN (AS DESCRIBED)
- TIE LINE
- BOUNDARY AS SURVEYED
- BOUNDARY BY DEED OR PLAT
- RIGHT OF WAY
- EASEMENT

PLOT PLAN — SURVEY

PROPERTY OF: LOT 11 THE PAVILION

HUNTERSVILLE TWP., MECKLENBURG CO., NC

ADDRESS: 15218 PAVILION VALLEY CIRCLE, HUNTERSVILLE, NC

LOT 11, BLOCK ____, THE PAVILION

SCALE: 1 IN. = 100 FT. DATE: JUNE 21, 20 06

0 100 200 300

CONCORD ENGINEERING & SURVEYING, INC.
ENGINEERS - SURVEYORS - PLANNERS
45 SPRING STREET SW CONCORD, NC 28025
PHONE (704) 786-5404
FAX (704) 786-7454

ACAD FILE: LOT 11.DWG

© CESI 2006

JOB NO.: 050306.001

# SEPTIC SYSTEM DESIGN REVIEW WORKSHEET

**File:** 6642B

**Address:** 15218 Pavilion Valley Circle

**PID #:** 019-243-14

**Subdivision:** The Pavilion

**Lot #:** 11

**Comments:**

1. *Update application & soil report to reflect 4-bedroom house.*
2. Recommend additional evaluation of soils in the primary system area to confirm suitability.

**Reviewed By:** Trevor Thomason TCT

**Date:** April 17, 2007

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