


13424 SAGE THRASHER LN

19936133

1/9/2008

duponbj

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

EHS Teri M.W Reviewer (D)

5767 B County Permit Review Worksheet

| Rule or Law | Permit Application | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| .1937(d) | Is the Application complete | ✓ | | | | | | | | | |
| .1937(d) | Is there a Site plan/Plat with application | ✓ | | | | | | | | | |
| .1937(d) | Is the Facilityshown? | ✓ | | | | | | | | | |
| .1937(d) | Are appurtenances shown | ✓ | | | | | | | | | |
| | **Site Evaluation Information** | | | | | | | | | | |
| .1939 (a)(1) | Topography and Landscape Position Recorded? | ✓ | | | | | | | | | |
| .1940 (a-g) | Slope % Recorded? | ✓ | | | | | | | | | |
| .1939 (a)(2) | Texture Class Recorded? | ✓ | | | | | | | | | |
| .1939 (a)(2) | Structure type Recorded? | ✓ | | | | | | | | | |
| .1939 (a)(2) | Consistence Recorded? | ✓ | | | | | | | | | |
| .1939 (a)(2) | Mineralogy Recorded? | ✓ | | | | | | | | | |
| .1939 (a)(3) | Soil Wetness Condition Recorded? | ✓ | | | | | | | | | |
| .1939 (a)(4) | Soil Depth to Rock or Parent Material Recorded When Encountered? | ✓ | | | | | | | | | |
| .1939 (a)(5) | Depth to Restrictive Horizons Recorded When Encountered? | ✓ | | | | | | | | | |
| .1939 (a)(6) | Sufficient Available Space Recorded? | ✓ | | | | | | | | | |
| .1937(m) | Are the Profile Locations Shown? | ✓ | | | | | | | | | |
| .1939(a) & .1945(b) | Are the S/PS Profiles in system & in repair area? | ✓ | | | | | | | | | |
| | Number of auger borings made: | 4 | | | | | | | | | |
| | Were sufficient auger borings made? | ✓ | | | | | | | | | |
| .1939(d), .1955, .1956, .1957 | LTAR | .3 | | | | | | | | | |
| | **IP/CA** | | | | | | | | | | |
| G.S. 130A-336(a) & .1937(g) | Proposed System Type stated-Initial | ✓ | | | | | | | | | |
| .1945(b) | Proposed System Type stated-Repair | ✓ | | | | | | | | | |
| G.S. 130A-336(a)(3) | System location identifiable by setbacks - Initial | ✓ | | | | | | | | | |
| .1937(g) & .1945(b) | System components shown - Initial | ✓ | | | | | | | | | |
| .1945(b) | Repair area shown | ✓ | | | | | | | | | |
| .1937 (f)(g) | Does System design match facility, flow & WW characteristics? | ✓ | | | | | | | | | |
| .1937 (f)(g) | Is System design consistent with soil/site conditions? | ✓ | | | | | | | | | |
| .1937 (f)(g) | Is the System located in the approved area? | ✓ | | | | | | | | | |
| G.S. 130A-336(a) | Is the Design flow (gpd) indicated? | ✓ | | | | | | | | | |
| G.S. 130A-336(a) | Number of Bedrooms, employees, seats, etc. indicated? | ✓ | | | | | | | | | |
| .1937(g) | Trench depth indicated? | ✓ | | | | | | | | | |
| .1937(g) | Trench width indicated? | ✓ | | | | | | | | | |
| .1937(g) | Trench length indicated? | ✓ | | | | | | | | | |
| G.S. 130A-336(a)(1) | Proposed/existing well shown? | ✓ | | | | | | | | | |
| G.S. 130A-336(a)(1) | Property line lengths shown? | ✓ | | | | | | | | | |
| G.S. 130A-336(a) | Facility/appurtenance setbacks shown from fixed points? | ✓ | | | | | | | | | |
| | **OP** | | | | | | | | | | |
| .1937(i) | System type as described in table V(a) of rule .1961 | | | | | | | | | | |
| .1937(i) | Conditions for system performance, operation, maintenance, monitoring and reporting. | | | | | | | | | | |

SES ARROWM NOTES FAIR TT

*If system design is incorrect or inconsistent with site conditions, indicate why for each below*

#2051

FILE NUMBER: 57667B

SEPTIC FEE: 100
DATE: 3/5/07
CK# 010242 JKA

Revised On: January 3, 2007

APPLICATION NUMBER: _____

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

WELL FEE: _____
DATE: _____

1. **SEPTIC / TYPE APPLICATION:** ☐ NONE ☒ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☒ MODIFIED PLOT PLAN

2. **WELL / TYPE APPLICATION:** ☒ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

3. **JOB LOCATION INFORMATION:** 199-361-33
**TAX PARCEL NUMBER:** Po ~~199-371-03~~
**STREET ADDRESS:** SAGE Thrush Lane (13424)
**CITY:** Cha-lotte
**STATE:** NC **ZIP:** 28278
**SUBDIVISION NAME:**
**LOT #:** 175 **LOT SIZE (acres):** 9.5
**TOWNSHIP:**
☒ 0-MECKLENBURG ☐ 3-CORNELIUS ☐ 6-HUNTERSVILLE
☐ 1-CHARLOTTE ☐ 4-PINEVILLE ☐ 7-MINT HILL
☐ 2-DAVIDSON ☐ 5-MATTHEWS

4. **BUILDING INFORMATION:**
**BUILDING TYPE:**
☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☒ HOUSE ☐ OTHER _____
**HEATED SQUARE FOOTAGE:** 10,000
**NUMBER OF BEDROOMS:** 6
**NUMBER OF OCCUPANTS:** 12
**FOUNDATION TYPE:**
☐ CONCRETE SLAB ☒ BASEMENT WITH PLUMBING
☐ CRAWL SPACE ☐ BASMENT WITH NO PLUMBING

5. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ☐ N/A
NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. **WATER SUPPLY:** ☒ MUNICIPAL ☐ PUBLIC WELL ☐ PRIVATE WELL ☐ SHARED WELL ☐ SPRING

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

8. **PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE** *(1-MOST DESIRED 5-LEAST DESIRED):*

8A. **RANK:** ☐ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER PRESS

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

| | | | | | |
|---|---|---|---|---|---|
| BURIED CABLES, LANDFILLS, STUMPHOLES | ☐ YES | ☒ NO | GRADING/SOIL REMOVAL PERFORMED | ☐ YES | ☒ NO |
| EXISTING WASTEWATER SYSTEMS | ☐ YES | ☒ NO | JURISDICTIONAL WETLANDS | ☐ YES | ☒ NO |
| WELLS, SPRINGS, OR WATER LINES | ☐ YES | ☒ NO | APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY | ☐ YES | ☒ NO |
| EASEMENTS OR RIGHT-OF-WAYS | ☐ YES | ☒ NO | WASTEWATER OTHER THAN DOMESTIC SEWAGE | ☐ YES | ☒ NO |

10. **PROPERTY OWNER:**
NAME: SANCTUARY AT LAKE WYLIE
ADDRESS: 11104 LIMEHURST PLACE
CITY: CHARLOTTE
STATE: NC ZIP: 28278
~~HOME PHONE~~:
WORK PHONE: 795-1106
~~MOBILE PHONE~~:
FAX:

11. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**
NAME: Paul Fennings - Sinf
ADDRESS: 385 Timber Rd
CITY: Monroe
STATE: NC ZIP: 28112
~~HOME PHONE~~:
WORK PHONE: 704-882-8525
MOBILE PHONE: 704-491-6330 ~~FAX~~:

12. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** 2005
13. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** 15 Days

14. **SEPTIC SYSTEM PERMIT APPLICATION SIGNATURE SECTION:**
If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. 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. The permit is valid for either 60 months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

3-5-07
Property Owner's or Owner's Legal Representative Signature Date

15. **WELL PERMIT APPLICATION SIGNATURE SECTION:**
If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. 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. The permit is valid for a period of 12 months from the date of issuance.

Property Owner's or Owner's Legal Representative Signature Date

☐ SURVEY PLAT TO SCALE SUBMITTED ☒ SCALED SITE PLAN SUBMITTED ☐ UN-SCALED SITE PLAN SUBMITTED

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

.vironment, Health, and Natural Resources
.vironmental Health
Wastewater Section

Sheet: 1 of 2
Property ID: PO 199-371-03
Lot #: 175
File #: 5767B
Code: 1

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

Owner: The Sanctuary at Lake Wylie
Applicant: Toney Jacobs
Address: 10933 Ballantyne Crossing Ave., Charlotte, N. C. 28277
Date Evaluated: 1/13/2005
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: .3a. Inv.
Location of Site: Sage Thrush Lane
Property Recorded:
Water Supply: [ x ] Public [ ] Individual [ ] 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 | OTHER PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS, 12 | 0-4 | GR/CL | FR/SEXP/SS/SP | >48" TO SOIL WETNESS | 48 | N/A | NONE | PS, IV |
| | | 4-48 | SBK/C | FI/SEP/S/P | | | | | .3GPD/FT$^2$ |
| 2 | LS, 6 | 0-3 | GR/CL | FR/SEXP/SS/SP | >48" TO SOIL WETNESS | " | " | " | " |
| | | 3-33 | SBK/C | FI/SEP/S/P | | | | | |
| | | 33-48 | SBK/CL | FR/SEXP/SS/SP | | | | | |
| 3 | NS, 10 | 0-3 | GR/CL | " | >50" TO SOIL WETNESS | 50 | " | " | " |
| | | 3-50 | SBK/C | FI/SEXP/S/P | | | | | |
| | | | | | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | | |
| Site LTAR | .3GPD/FT$^2$ | .3GPD/FT$^2$ |

Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 1.14/2005,
Others Present: P. Penninger

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 #: **30002051** GWS File #: **5767B** Tax Parcel #: **199-361-33**

- 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):** 3/16/2012

Type of Installation: Residential - Modified Plot Plan Lot Number: 175

Structure Type: HOUSE Size ($ft^2$): 10000 # Bedrooms: 6 # Occupants: 12

Building Foundation: Basement With Plumbing Water Supply: Municipal

**II. Initial System Type:** PPBPS (pressurized) **System Classification:** IVa

Initial System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 720 | 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 ($ft^2$): | 1200 | Total Trench Length (ft): | 400 |
| Maximum Trench Depth (in): | 36 | Depth of Media (in): | 12 | Distribution Device: | Manifold (LPP Distri | | |

**III. Repair System Type:** PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 720 | 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 ($ft^2$): | 1200 | Total Trench Length (ft): | 400 |
| Maximum Trench Depth (in): | 36 | Depth of Media (in): | 12 | Distribution Device: | Manifold (LPP Distri | | |

**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 Michael Owner/Legal Agent: Ray Pennington

Print Name

Signature: Jeremy J Michael R.S. Signature:

Date Issued: 3/16/2007

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 #: **30002051** GWS File #: **5767B**

**IV. Permit Conditions/Comments:**

- This type of septic system requires an inspection once every 3 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 septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- The septic system shall be installed in accordance with the plans submitted 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.
- All components of the septic system must be located a minimum distance from the normal pool elevation or mean high water mark for the nearby body of water. See plot plan for minimum setback requirements.

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 Michael

Signature: Jeremy Michael R.S.

Date Issued: 3/16/2007

Owner/Legal Agent: PAUL F. PENNINGTON

Print Name

Signature:

199-361-33

13424 SAGE THRASHER LN.

S&ME

**GWS Septic System Design Review**

**GWS File #:** 5767B **Approved** **Disapproved**

**Design Review:** 3-15-07 (TCP) ☒ ☐

**Field Review:** 3-14-07 ☒ ☐

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

March 12, 2007

Mr. James Martin
The Sanctuary at Lake Wylie
11104 Limehurst Place
Charlotte, North Carolina 28278

Reference: **Revision of Septic Improvement Permit for Lot 175 at the Sanctuary at Lake Wylie**
Mecklenburg County Health Department (MCHD) File #5767B

Dear Mr. Martin,

Attached is the request for the revision to the Improvement Permit for the above referenced lot. The lot was originally permitted for a 5 bedroom house and you are now requesting an Improvement Permit for a 6 bedroom house. We are proposing a LPPPBPS system with 400 feet of line for the system and repair. The proposed building envelope may be moved closer to the lake. Also, after a final house location is identified, the septic area could possibly be re-permitted closer to the final house location.

Mr. Bill Marlin has evaluated the soils (see attached MCHD soil sheets) and S&ME, Inc. has flagged the system and repair on the lot. The septic lines have been located by the surveyor and are shown on the attached maps provided by YW&H. 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 Sanctuary.

A building permit cannot be issued until the MCHD office issues an Authorization to Construct (ATC). The buyer will apply for the ATC. If the buyer's house pad does not fit in the "building envelope" shown on the Improvement Permit, the proposed system may have to be modified prior to your office issuing the ATC. **No grading shall take place on the lot prior to obtaining the ATC from the MCHD.**

Tri-County Wastewater (TCWW) is under contract to supply maintenance services for each septic system installed at The Sanctuary. TCWW will have a list of preferred septic contractors for the subdivision and will also have requirements for septic system installation that are greater than the MCHD and State requirements. It will be the responsibility of TCWW to enforce any requirements above State requirements or the MCHD conditions on the Improvement Permit.

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

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

TCT
3-15-07

# Design Specifications for Lot 175 at The Sanctuary
## MCHD File # 5767B

| | |
|---|---|
| Daily Design Flow: | 720 gpd |
| Number Bedrooms: | 6 bdr. |
| Basement or Crawlspace: | Basement |
| Septic Tank Size: | 1500 gal |
| Pump Tank Size: | 1500 gal |
| Primary System Loading Rate: | 0.3 gpd/ft$^2$ |
| Primary System: | LP PPBPS |
| Number and length of laterals: | 5 @ 80 ft. 1 1/2" SCH 40 PVC PIPE |
| Total ft. of primary system: | 400 ft. REQUIRED FOR LATERALS > 70'. |
| Number of T&J Panels: | 18 per 80 ft. line for a total of 90 panels |
| Flow Rate through system: | 45 gpm – use 5/32 in. holes with 3 ft. head pressure |
| Pump Requirements: | to be calculated by installer when specific house and pump tank locations are available |
| Dosing Volume: | approx. 324 gal. – (3.6 gal per panel)* |
| 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: | yes |
| Repair System Loading Rate: | 0.3 gpd/ft$^2$ |
| Repair System: | LP PPBPS |
| Total ft. of repair | 420 ft. (400 required) |

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

## SEPTIC SYSTEM DESIGN REVIEW WORKSHEET

**File:** 5767B

**Address:** 13424 SAGE THRASHER LN

**PID #:** 199-361-33

**Subdivision:** SANCTUARY

**Lot #:** 175

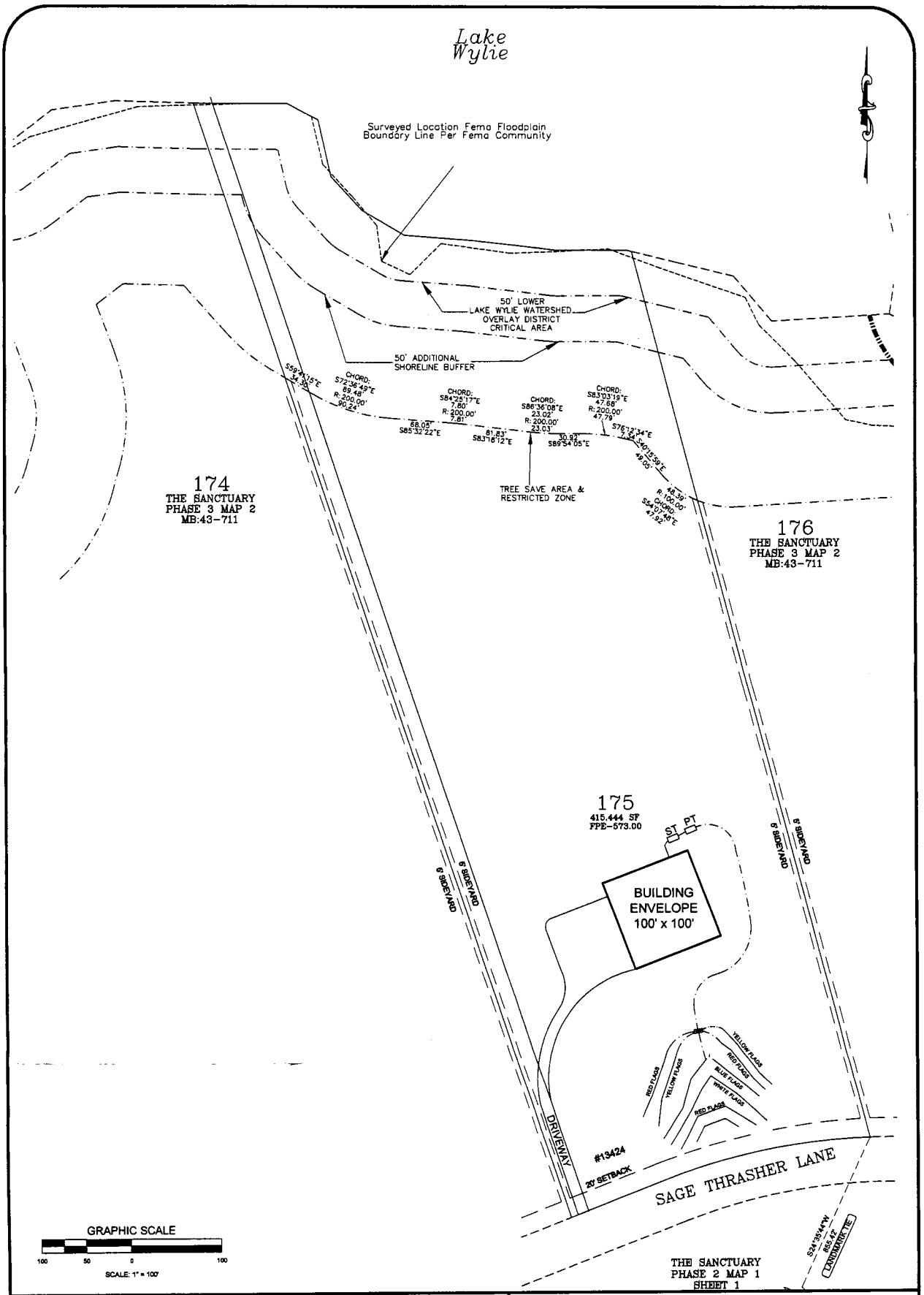
**Comments:**

① FINAL DESIGN WILL REQUIRE 1½" Ø SCH 40 PVC FOR LATERALS IF LENGTH EXCEEDS 70'.

② MAY REWORK LATERALS TO BE ≤ 70' AND USE 1¼" Ø SCH. 40 PVC.

**Reviewed By:** TREVOR THOMASON **Date:** 3-15-07

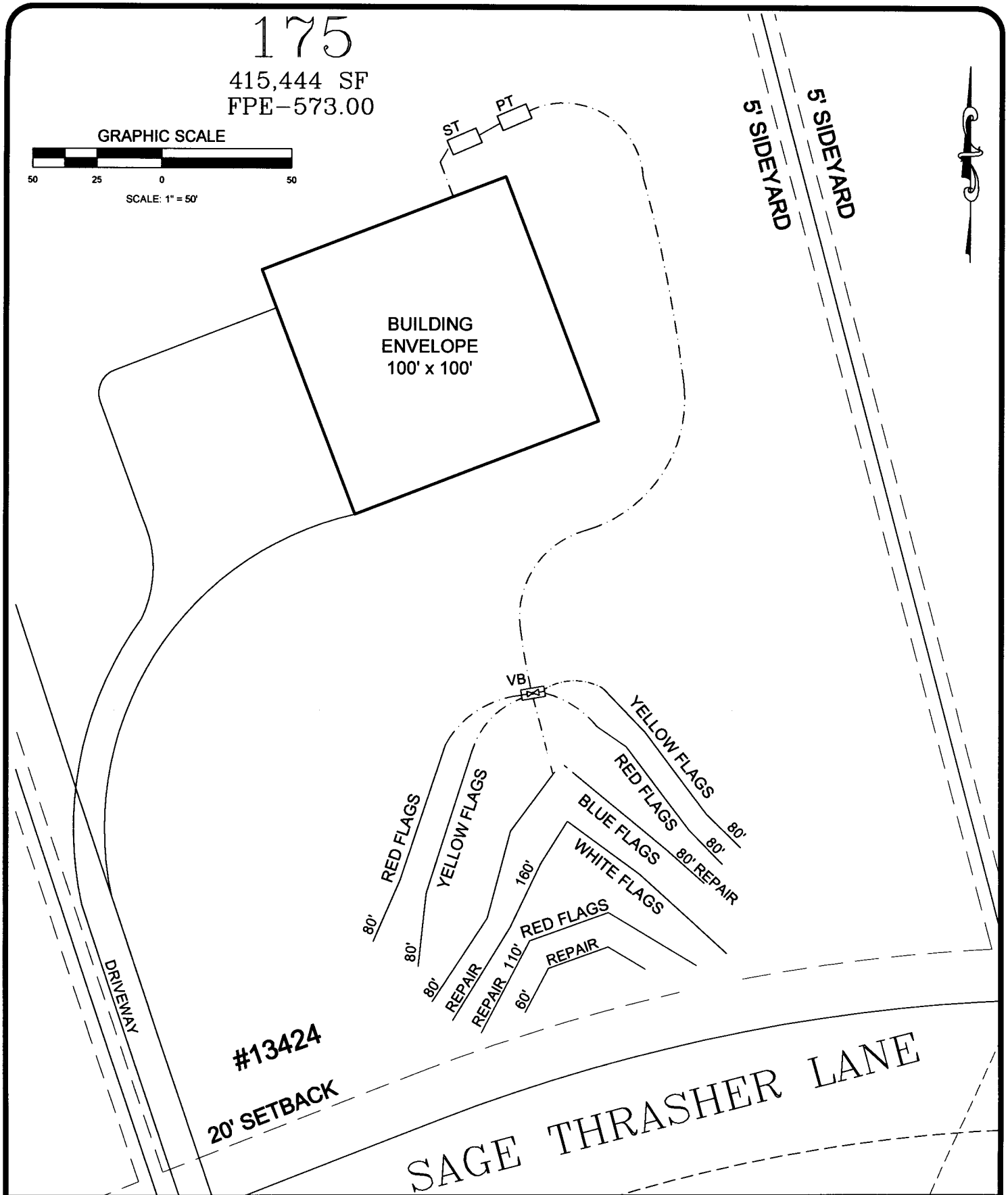
**Status:** ☒ Approved ☐ Disapproved ☐ Pending




S&ME
3718 OLD BATTLEGROUND ROAD
GREENSBORO, NC. 27410
PH. 336-288-7180
FAX. 336-288-8980
WWW.SMEINC.COM

**LOT 175**
THE SANCTUARY
MECKLENBURG COUNTY, NORTH CAROLINA

| SCALE: AS SHOWN | DRAWN BY: RDM | CHECKED BY: JP |
|---|---|---|
| JOB NO. 1588-05-067 | DATE: MARCH 2007 | FIGURE NO. 1 |




| | |
|---|---|
| SCALE: | AS SHOWN |
| DATE: | MARCH 2007 |
| DRAWN BY: | RDM |
| PROJECT NO: | 1581-05-067 |

S&ME
WWW.SMEINC.COM

LOT 175
THE SANCTUARY
MECKLENBURG COUNTY, NORTH CAROLINA

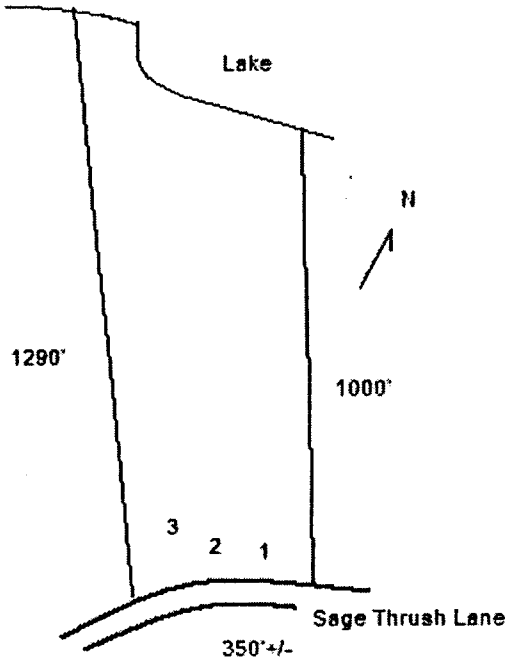
FIGURE NO.
2

**COMMENTS:**
100% repair

| 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 | | CL-Clay Loam | | |
| FP-Flood Plain | | 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**



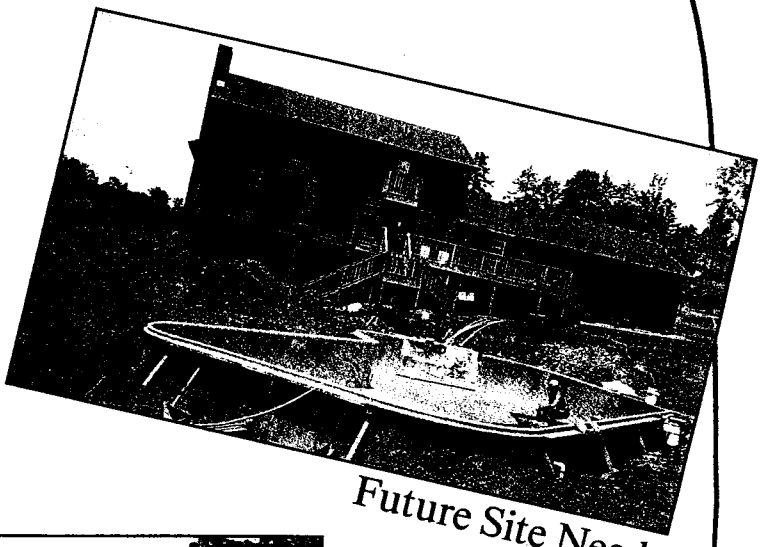
# When Your Problem in On-site Waste Is:



Topography and Vegetation



Special Landscaping Needs



Future Site Needs



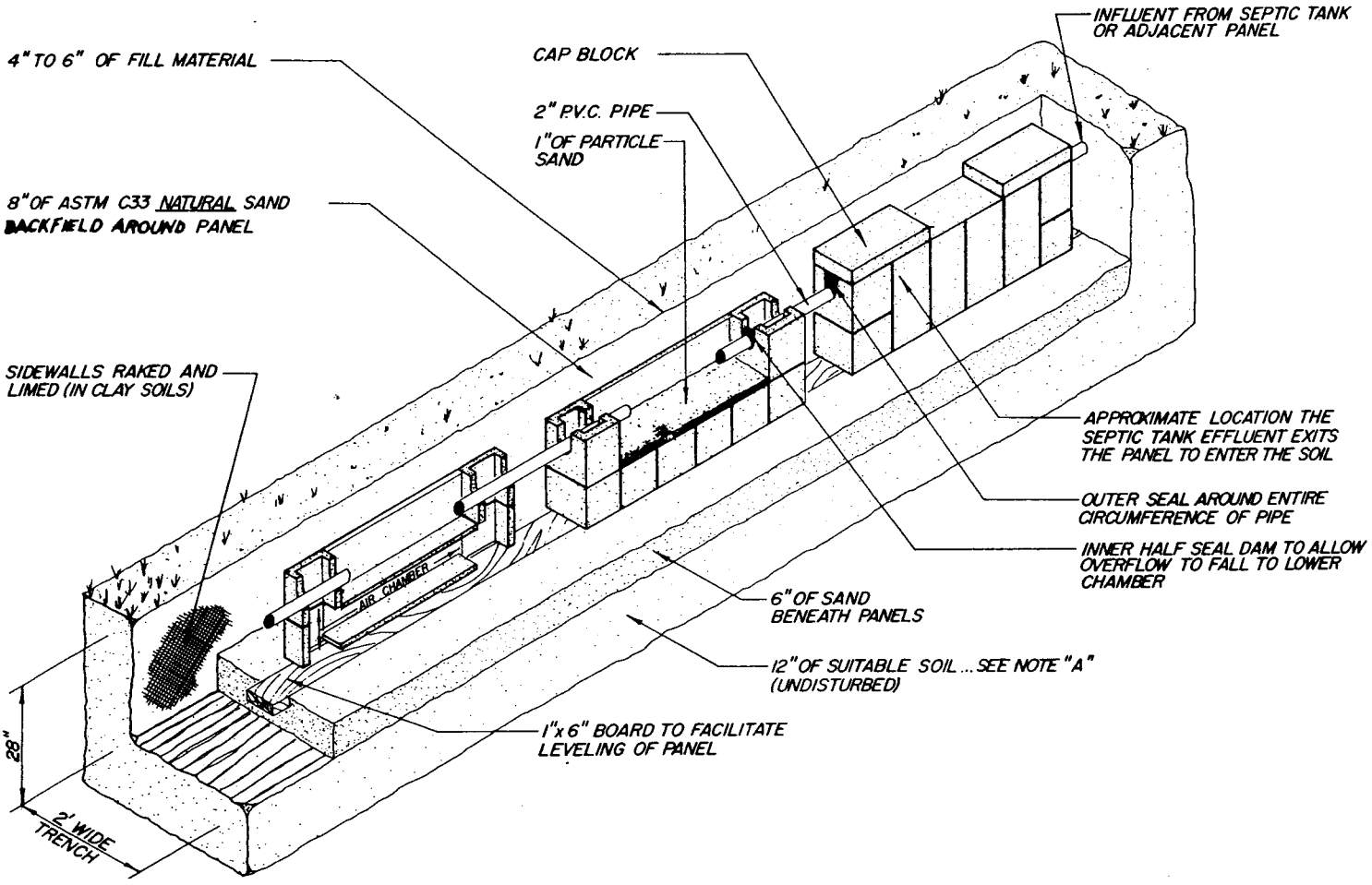
Limited Suitable Area

Then consider the

# T&J Panel Wastewater Treatment System

A Better Quality Effluent Than With Conventional Systems

# Isometric Drawing of A Segment of 16" T&J Panel System Drainfield

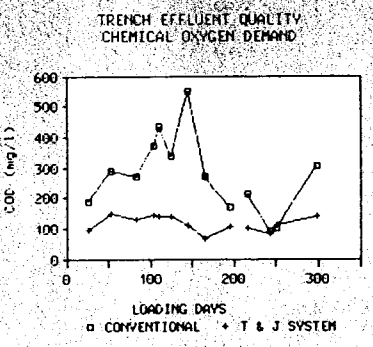



## Advantages of the T&J Panel System

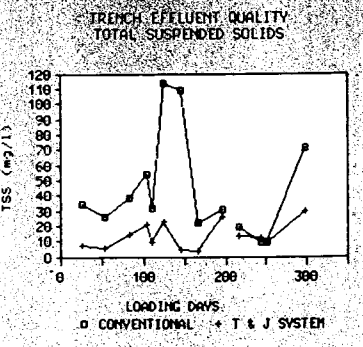
- Effluent discharged closer to the ground surface
- Each panel works as individual unit
- Panel may be grouped where best soils are found
- Less soil distributed during installation
- Less catch basin effect
- Lines only 24" wide — more landscape flexibility
- Aerobic bacterial activity
- Easily installed — similar to conventional system
- Can be installed as modified mound system
- Lines can be inspected or serviced through lids
- Prefabricated panels delivered to job site

## Environmentally Superior Effluent With The T&J Panel System

In a side by side test, both total suspended solids and chemical oxygen demand was reduced with the Panel System. The panels were loaded at 3.4 times that of the conventional system.



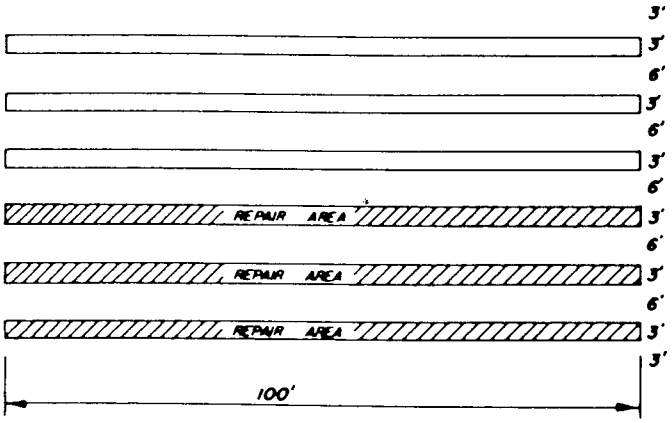

Total Suspended Solids Concentration for Effluent from Simulated Conventional and T&J System Trenches. (Note: Hydraulic Loading Rate for Conventional = 1.53 ca/day, for T&J = 5.27 ca/day.)




Chemical Oxygen Demand Concentration for Effluent from Simulated Conventional and T&J System Trenches. (Note: Hydraulic Loading Rate for Conventional = 1.53 ca/day, for T&J = 5.27 ca/day.)

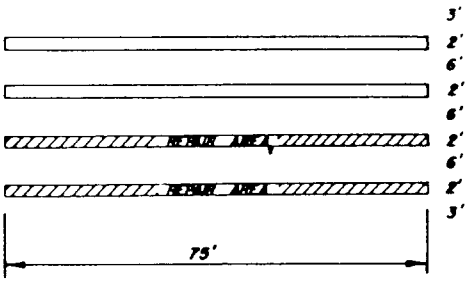
# See the difference in a real space needed with the T&J Panel System Wastewater Treatment System when compared to a conventional tile/stone nitrification system.

## Conventional System




A total suitable and usable area of 5400 square feet is needed for a conventional system.

## T & J Panel System



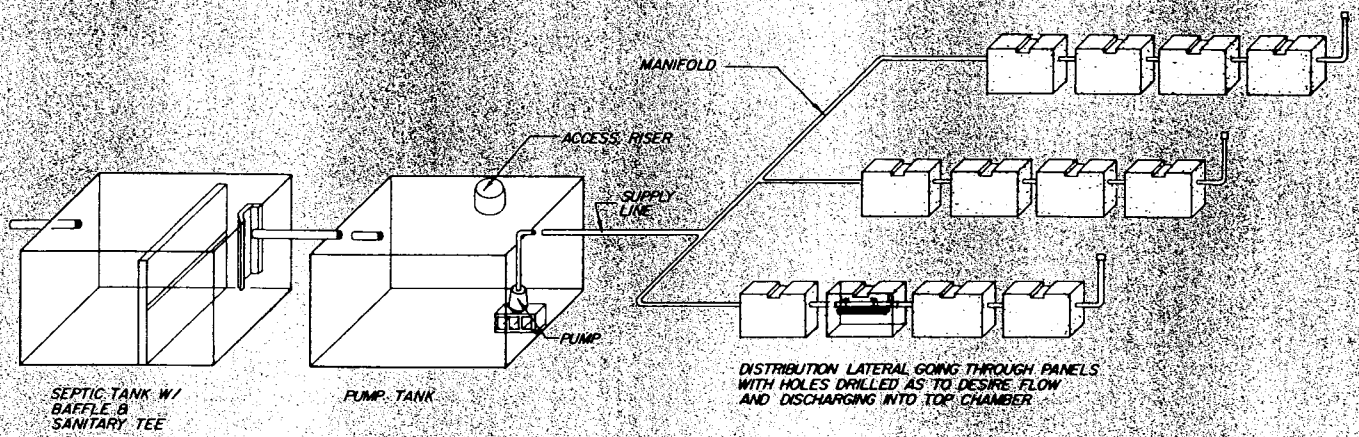

A total suitable and usable area of 2400 square feet is needed for the T & J Panel System**.

*Typical 3 bedroom house in a clay soil with 0.4 gallon per day per foot square application rate with a design flow on 120 gallons per day per bedroom.

**The T & J Panel Wastewater Treatment System is included in the North Carolina Sewage regulations as a PPBPS as of August 1, 1988. This allows for a 50% reduction in lineal footage of trench with the 16 inch panel as illustrated above. (See note "A")
Note A - This reflects North Carolina Codes. Please check local codes and practices for your area.

## Low Pressure Panels (LP Panel) - Alternative installation for the T&J Panel System.

**The LP offers a high quality effluent with a uniform distribution of wastewater throughout the entire system.**




- Uniform distribution of the effuent.
- Elimination of localized overloading.
- Works with 2-4 feet of pressure head.
- Dosing and resting cycles.
- Placing of the effluent into the sidewall near the surface—where the more porous soils are found.
- The aerobic action of the T&J Panel's design.
- The filtration of the effluent through the T&J Panel System and its sand backfill.

# THE T.&J. PANEL
## WASTEWATER TREATMENT SYSTEM

PATENT NUMBER 4013559

P.O. Box 288 • Statesville, North Carolina 28677
N.C. WATS 1-800-222-2577 • (704) 872-9566

There are many new developments in ground absorption sewage disposal system on the market today. The T&J Panel System is designed to make the most out of the least amount of space possible. This is made possible by the fuller use of the more porous top soil and the limited effect of evapotransporation and the wicking action of the block as the effluent is kept close to the surface of the ground and fused through the pores of the block to the sidewall area of the drainfield lines. This more general distribution and wicking allows for the use of the entire sidewall area and helps prevent the sealing off of the bottom and lower sidewalls that often occurs in a conventional system.

A 16 inch high panel is 46 inches long, 8 inches wide, and weighs about 155 pounds. There is a 6 inch by 6 inch air chamber at each end of the panel which extends from top to bottom to ensure aerobic action in each level of the field lines. Each panel has a storage chamber just below the top chamber for storage during peak use periods. A 24 inch panel is also available for use in repair or specially engineered systems.

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

**Limited Warranty**

The structural integrity of each T&J Panel, when installed in accordance with manufacturer's instructions, is warranted against defective materials and workmanship for one year from date of manufacture. Should a defect appear within the warranty period, purchaser must inform T&J Panel System of the defect before the warranty expires. T&J Panel System will supply a replacement unit. T&J Panel System's liability specifically excludes the cost of removal and/or installation of the panels. There are no other warranties with respect to the units, including no warranties of merchantability or of fitness for a particular purpose. The warranty does not extend to incidental, consequential, special or indirect damages. The company shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other loss or expense incurred by buyer. Specifically excluded from warranty coverage are: Damage to the panels due to ordinary wear and tear; alteration, accident, misuse, abuse or neglect of the panels; the panels being subjected to stresses greater than those prescribed in the installation instructions; the placement by buyer of improper materials into buyer's system; or any other event not caused by the company. Furthermore, in no event shall the company be responsible for any loss or damage to the buyer, the panels or any third party resulting from its installation or shipment. Buyer shall be solely responsible for ensuring that installation of the system is completed in accordance with all applicable laws, codes, rules and regulations. Any alteration of this warranty must be noted as "Warranty" in writing by the company.

**Engineering and Test Data by Law Environmental Services and Ayers and Associates is available from the manufacturer at the address below.**


# THE T&J PANEL
## WASTEWATER TREATMENT SYSTEM

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**Distributed by**

**Serving people with a better quality system**

FEE: 200 check #756
DATE: 11/3/04

# APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

#2090

[ ] CRT

TYPE APPLICATION: ___ NEW SYSTEM ___ EXPANSION/ ALTERATION OF EXISTING SYSTEM ___ REPAIR OF EXISTING SYSTEM

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

FILE #: 57675

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 199-371-03 pt

STREET ADDRESS: Island Point Rd

SUBDIVISION OR MOBILE HOME PARK NAME: The Sanctuary At Lake Wylie, LLC II

LOT NUMBER: 175

TYPE OF BUILDING (CHECK ONE):

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

TOWNSHIP (CHECK ONE):

✓ 0 MECKLENBURG
___ 1 CHARLOTTE
___ 2 DAVIDSON
___ 3 CORNELIUS
___ 4 PINEVILLE
___ 5 MATTHEWS
___ 6 HUNTERSVILLE
___ 7 MINT HILL

HEATED SQUARE FOOTAGE:

NUMBER OF BEDROOMS:

NUMBER OF OCCUPANTS:

CLOSING DATE _____

FOUNDATION FOR RESIDENCE:

___ WITHOUT BASEMENT
___ ON SLAB
___ CRAWL SPACE
___ WITH BASEMENT /PLUMBING
___ WITH BASEMENT /NO PLUMBING

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: ___ YES ✓ NO TYPE: _____

WATER SUPPLY (CHECK ONE):

___ COMMUNITY (C)
✓ MUNICIPAL (M)
___ PRIVATE WELL (P)
___ SHARED WELL (S)
___ OTHER 'SPRINGS' (O)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

| | | | |
|---|---|---|---|
| BURIED CABLES, LANDFILLS, STUMPHOLES | ___ YES ✓ NO | WELL, SPRINGS OR WATERLINES | ___ YES ✓ NO |
| EXISTING WASTEWATER SYSTEMS | ___ YES ✓ NO | DESIGNATED WETLANDS | ___ YES ✓ NO |
| EASTMENTS OR RIGHT-OF-WAYS | ✓ YES ___ NO | | |

| PROPERTY OWNER: | LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE: |
|---|---|
| NAME: (LAST) The Sanctuary At Lake Wylie, LLC (FIRST) (MI) | NAME: (LAST) Jacobs (FIRST) Tony (MI) C |
| ADDRESS: 10933 Ballantyne Crossing Ave | DAYTIME PHONE: 704 663 - 6905 |
| CITY: Charlotte STATE: NC ZIP: 28277 | m 704 582 9219 |
| DAYTIME PHONE: (704) 544 - 0201 ext 226 | |

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

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 agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Tony C Jacobs, CPSS (Agent) DATE: 11/3/04

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102

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

Sheet: 1 of 2
Property ID: PO 199-371-03
Lot #: 175
File #: 5767B
Code: 1

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

AJ

Owner: The Sanctuary at Lake Wylie
Address: 10933 Ballantyne Crossing Ave., Charlotte, N. C. 28277
Proposed Facility: Residence  Design Flow (.1949): 600gpd
Location of Site: Sage Thrush Lane
Water Supply: [ x ] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ x ] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [ x ] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Toney Jacobs
Date Evaluated: 1/13/2005
Property Size: .3a. Inv.
Property Recorded:

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | .1941 Consistence Mineralogy | OTHER PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS, 12 | 0-4 | GR/CL | FR/SEXP/SS/SP | >48" TO SOIL WETNESS | 48 | N/A | NONE | PS, IV |
| | | 4-48 | SBK/C | FI/SEP/S/P | | | | | .3GPD/FT$^2$ |
| 2 | LS, 6 | 0-3 | GR/CL | FR/SEXP/SS/SP | >48" TO SOIL WETNESS | " | " | " | " |
| | | 3-33 | SBK/C | FI/SEP/S/P | | | | | |
| | | 33-48 | SBK/CL | FR/SEXP/SS/SP | | | | | |
| 3 | NS, 10 | 0-3 | GR/CL | " | >50" TO SOIL WETNESS | 50 | " | " | " |
| | | 3-50 | SBK/C | FI/SEXP/S/P | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | IVa | IVa JAM |
| Site LTAR | .3GPD/FT$^2$ | .3GPD/FT$^2$ |

Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 1.14/2005, W. R. Marlin
Others Present: P. Penninger

**COMMENTS:**
100% repair

| 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 | | CL-Clay Loam | |
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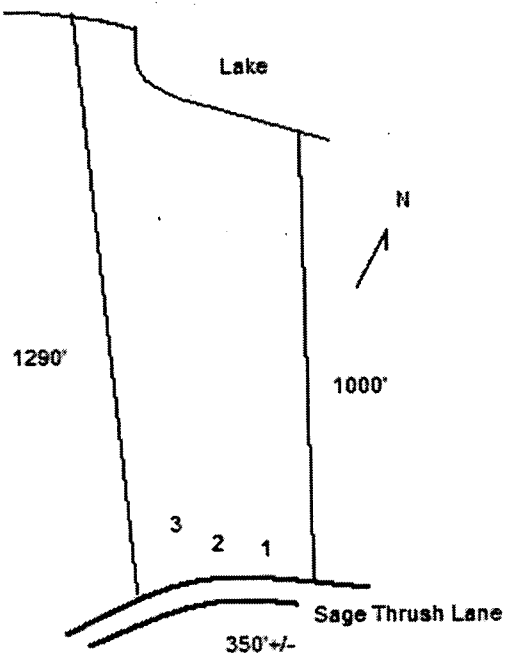
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SG-Single Grain
M-Massive
CR-Crumb
GR-Granular
SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic

**Consistence**
**Moist**
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

**Consistence**
**Wet**
NS-Non-Sticky
SS-Slightly Sticky
S-Sticky
VS-Very Sticky
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SP-Slightly Plastic
P-Plastic
VP-Very Plastic

**Mineralogy**
SEXP-Slightly Expansive
EXP-Expansive

**Sketch of Soil Evaluation Locations**



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

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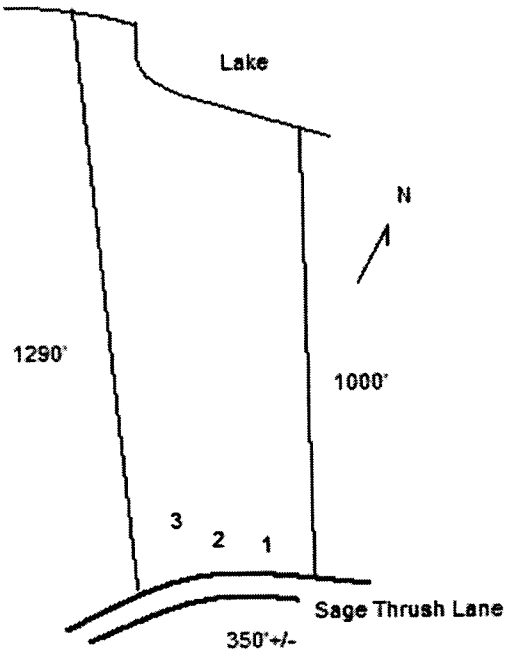
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EXP-Expansive

**Sketch of Soil Evaluation Locations**



# TONEY C. JACOBS & ASSOCIATES, INC.

Consulting Soil Scientists

Licensed by the North Carolina Board for Licensing of Soil Scientists
Certified by the American Registry of Certified Professionals in Agronomy, Crops and Soils

168 Broadbill Drive
Mooresville, NC 28117
Phone (704) 663-6905
Fax (704) 662-9845 E-mail jacobs@i-america.net


February 2, 2005

To: Mr. David Cornelius, R.S.
Mecklenburg County Env. Health Dept.

From : Toney C. Jacobs
Paul G. Penninger

RE: Request for an Improvement Permit for lot 175 at The Sanctuary:
MCHD file # 5767B

Crescent Resources is requesting an Improvement Permit for lot **175** at The Sanctuary Subdivision for a **5** bedroom, basement home. Mr. Bill Marlin of the MCHD evaluated the soils on 1-14-05 and determined the septic area is PS at an 0.3 gpd/ft$^2$ LTAR. Toney C. Jacobs and Associates, Inc. has flagged a 25% reduction septic system and PPBPS repair on the lot, as shown on the attached sketch.

We understand a building permit cannot be issued until your office issues an Authorization to Construct (ATC). The buyer of the lot will apply for the ATC. If the buyer's house pad does not fit in the "building envelope" shown on the Improvement Permit, we understand the proposed system may have to be modified prior to your office issuing the ATC. **No grading shall take place on lot prior to obtaining the ATC from the MCHD.**

Tri-County Wastewater (TCWW) is under contract to supply maintenance services for each septic system installed at The Sanctuary. TCWW will have a list of preferred septic contractors for the subdivision and will also have requirements for the installation of the septic systems that are greater that the state requirements. It will be the responsibility of TCWW to enforce any requirements above state requirements or the conditions on the Improvement Permit or ATC.

Please review the attached system sketch and design specifications for the Improvement Permit. Please call if you have and questions, comments, or corrections.

## Design Specifications for Lot 175 at The Sanctuary, MCHD File # 5767B

| | |
|---|---|
| System Type: | primary: pressure manifold , 25% reduction<br>repair: LP PPBPS |
| Daily design flow: | 600 gpd |
| Septic tank size: | 1500 gal. (2 compartments) |
| Pumping tank size: | 1500 gal. |
| Effluent loading rate: | 0.3 gpd/ft$^2$ for primary and repair |
| Number and length of laterals: | 6 @ 84 ft. 25% reduction |
| Flow rate through the system: | 33 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 or owners agent when specific house and pump tank location are available |
| Dosing volume: | approx. 270 gal. – 2.2 doses/day at design flow |
| Depth of water 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 |

## CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: **5767B**

Tax Number: **199-371-03**

- The IMPROVEMNET 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.

Basement: ☒ Yes ☐ No ☐ Partial Basement

**Primary Wastewater System**

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☐ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional
☐ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other
☒ Innovative or Experimental:

| | | | |
|---|---|---|---|
| **0.3** Long-term acceptance rate (GPD/ft^2) | **600** Max gallons/day wastewater flow | **1500** Absorption Area (ft^2) | **9** Trench spacing (min. on centers) (ft) |
| Serviced by private well: ☐ Yes ☒ No | **1500** Gallon septic tank | **500** Total trench length (ft) | **24** Maximum trench depth (in) (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions.) |
| **5** Bedrooms in residence | **1500** Gallon pump tank | **na** Depth of stone (in) | |

Any surface water present: **Yes** Type: **Lake Wylie** Minimum separation distance (ft): **50**

Additional conditions: **Install according to plans on file submitted by Toney Jacobs and Associates. Lot #175**

**Repair Area System**

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional
☒ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other
☐ Innovative or Experimental:

| | | | |
|---|---|---|---|
| **1000** Absorption Area (ft^2) **333** Total trench length (ft) | **na** Depth of stone (in) | **8** Trench spacing (min. on centers) (ft) | **24** Maximum trench depth (in) |

The undersigned, an authorized agent of the MECKLENBURG COUNTY HELTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. The approval is granted in accordance with the provisions of Laws and Rules For Sewage, Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

*** No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair Approval is granted by this Department.

*** This Improvement permit is transferable.

RS 3/15/05

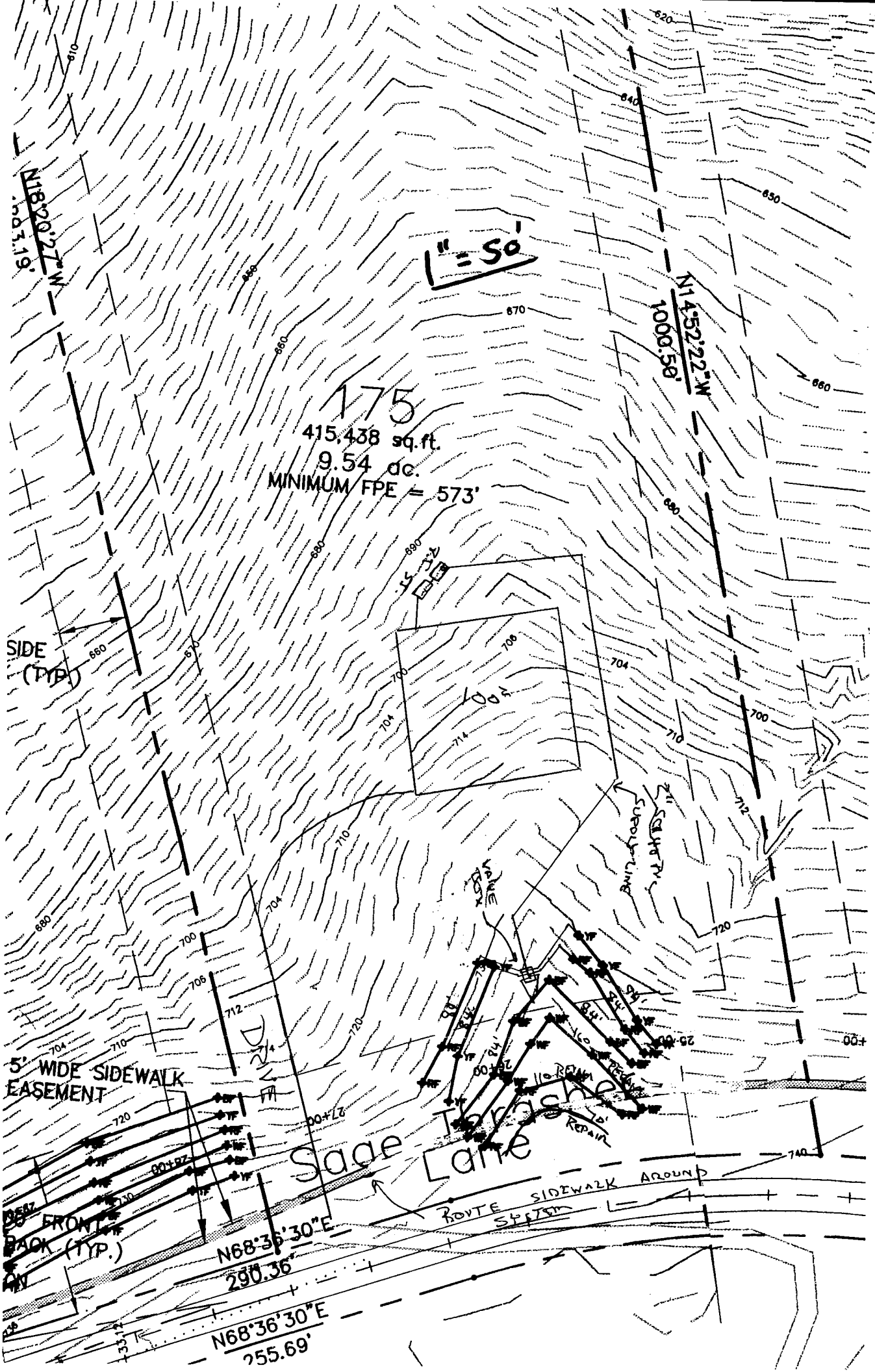
DENR Authorized Agent Date

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, NC 28202
(704) 336-5103

36-04

Owner/Agent Signature Date

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH, AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION


1" = 50'
N18°20'27"W
203.19'
N14°52'22"W
1000.50'
175
415,438 sq.ft.
9.54 ac.
MINIMUM FPE = 573'
SIDE
(TYP.)
5' WIDE SIDEWALK
EASEMENT
REAR
(TYP.)
N68°36'30"E
290.36'
N68°36'30"E
255.69'
Sage Terrace Lane
ROUTE SIDEWALK AROUND
SYSTEM
REPAIR