HTE# 09-5-22461R

Harnett County Department of Public Health

25612

Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: Roger Wayne Morchison
PROPERTY LOCATION: SR 1100 Line Rd.
SUBDIVISION Atkins Corner LOT # 3
NEW ☑ REPAIR ☐ EXPANSION ☐
Type of Structure: MH 14 X 70'
Proposed Wastewater System Type: Fill System
Projected Daily Flow: 360 GPD
Number of bedrooms: 3 Number of Occupants: 6 max
Basement ☐Yes ☑No
Pump Required: ☐Yes ☐ No ☑ May be required based on final location and elevations of facilities
Type of Water Supply: ☐ Community ☐ Public ☐ Well Distance from well _____ feet
Permit conditions: _____

Site Improvements required prior to Construction Authorization Issuance:

Permit valid for: ☑ Five years ☐ No expiration

Authorized State Agent:: Bryan McSwain L.S. Date: 9/4/2009 SEE ATTACHED SITE SKETCH

The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit..

Construction Authorization

(Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958. and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: Roger Wayne Morchison
PROPERTY LOCATION: Line Rd.
SUBDIVISION Atkins Corner LOT # 3
Facility Type: MH ☑ New ☐ Expansion ☐ Repair
Basement? ☐ Yes ☑ No Basement Fixtures? ☐ Yes ☐ No
Type of Wastewater System** Fill System (Initial) Wastewater Flow: 360 GPD
(See note below, if applicable ☐)
Fill System (Repair)

Installation Requirements/Conditions

Septic Tank Size 1000 gallons
Pump Tank Size 1000 gallons if needed
Number of trenches 6
Exact length of each trench 70 feet
Trenches shall be installed on contour at a
Maximum Trench Depth of: _____ inches
(Trench bottoms shall be level to +/-1/4" in all directions)
Trench Spacing: _____ Feet on Center
Soil Cover: _____ inches
(Maximum soil cover shall not exceed 36" above the trench bottom)
Pump Requirements: _____ ft. TDH vs. _____ GPM
Aggregate Depth: _____ inches below pipe
_____ inches above pipe
_____ inches total

Conditions: See attachments for system specs.
Water line to be 10 ft. from any part of septic system
* Fill material must be clean & free from debris
* Irons will need to be visible when system is installed

**If applicable: *I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.*

Owner/Legal Representative Signature: _____ Date: _____

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. SEE ATTACHED SITE SKETCH

Authorized State Agent: Bryan McSwain L.S. Date: 9/4/2009
Construction Authorization Expiration Date: 9/15/2009

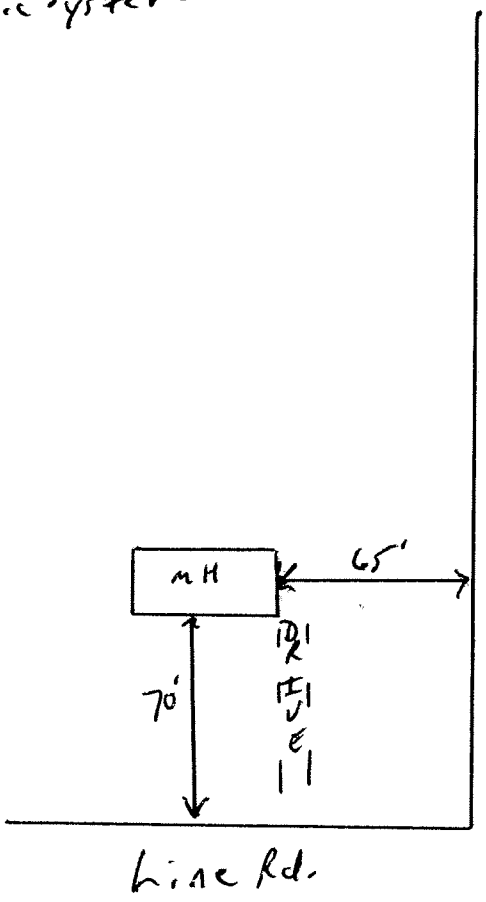
HTE# 09-5-2246IR Permit # 25612

Harnett County Department of Public Health
Site Sketch

ISSUED TO: Roger Wayne Murchison PROPERTY LOCATON: SR 1100 Line Rd.
SUBDIVISION Atkins Corner LOT # 3

Authorized State Agent: Susan McSwain, R.S. Date: 9/4/2009

*See Attachments for layout of Septic System



NOTES:

1. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS, AND AGREEMENTS OF RECORD PRIOR TO THIS PLAT.
2. ALL PROPERTY LINES AND CORNERS ESTABLISHED USING EXISTING BOUNDARY EVIDENCE AND DEEDS AND PLATS OF RECORD IN HARNETT COUNTY REGISTRY.
3. ALL DISTANCES ARE HORIZONTAL GROUND.
4. THIS MAP DRAWN FROM MAP OF RECORD AND NOT AN ACTUAL FIELD SURVEY.
5. THE PROPERTY SHOWN ON THIS PLAT IS NOT LOCATED IN A FEMA DESIGNATED FLOOD PLAIN AREA.

STATE OF NORTH CAROLINA
COUNTY OF Harnett

I, Kelli H. D'Arcy REVIEW OFFICER OF Harnett COUNTY, CERTIFY THAT THIS MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

8-28-09
DATE

Kelli H. D'Arcy
REVIEW OFFICER

I, TRAVIS L. NICKENS, CERTIFY THAT THIS PLAT WAS DRAWN BY ME FROM A RECORD PLAT AND DEEDS; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION SHOWN; 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; WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 27th DAY OF AUGUST, A.D., 2009

Travis L. Nickens
TRAVIS L. NICKENS, PLS NO. L-4218

NORTH CAROLINA PROFESSIONAL SEAL L-4218 LAND SURVEYOR TRAVIS L. NICKENS

I, TRAVIS L. NICKENS, PROFESSIONAL LAND SURVEYOR, DO HEREBY CERTIFY TO THE FOLLOWING:

THAT THE SURVEY IS OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY, OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION.

Travis L. Nickens
TRAVIS L. NICKENS, PLS NO. 4218

CERTIFICATE OF OWNERSHIP

I (WE) HEREBY CERTIFY THAT I AM (WE ARE) THE OWNER(S) OF THE PROPERTY SHOWN AND DESCRIBED HEREON, AND THAT I (WE) HEREBY ADOPT THIS PLAT OF SUBDIVISION WITH MY (OUR) FREE CONCENT, ESTABLISH THE MINIMUM BUILDING SETBACK LINES, AND DEDICATE ALL STREETS, ALLEYS, WALKS, PARKS, AND OTHER SITES AND EASEMENTS TO PUBLIC OR PRIVATE USE AS NOTED AND ALL OF THE LAND SHOWN HEREON IS WITHIN THE SUBDIVISION REGULATIONS JURIDICTION OF HARNETT COUNTY EXCEPT;

Carolyn C. Jernigan 8-28-09
OWNER DATE

NORTH CAROLINA
HARNETT COUNTY
This Map/Plat was presented for registration and recorded in this office in Map Number 2009-601
This 31st day of August 2009
at 9:41 o'clock AM.
KIMBERLY S. HARGROVE
Register of Deeds
Judi B Wester
Deputy/Assistant Register of Deeds

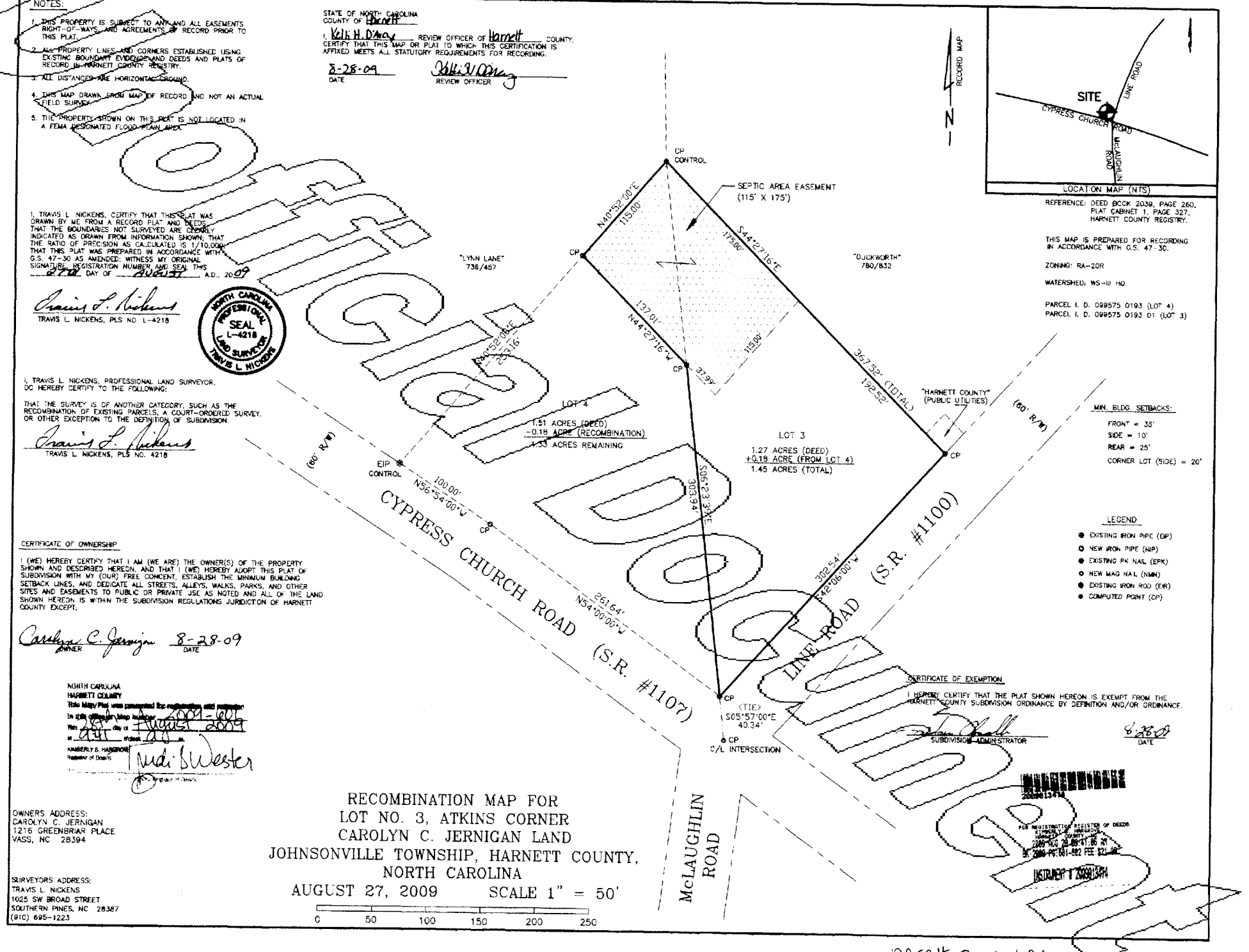
OWNERS ADDRESS:
CAROLYN C. JERNIGAN
1216 GREENBRIAR PLACE
VASS, NC 28394

SURVEYORS ADDRESS:
TRAVIS L. NICKENS
1025 SW BROAD STREET
SOUTHERN PINES, NC 28387
(910) 695-1223

RECOMBINATION MAP FOR LOT NO. 3, ATKINS CORNER CAROLYN C. JERNIGAN LAND JOHNSONVILLE TOWNSHIP, HARNETT COUNTY, NORTH CAROLINA

AUGUST 27, 2009 SCALE 1" = 50'

0 50 100 150 200 250



REFERENCE: DEED BOOK 2039, PAGE 260, PLAT CABINET 1, PAGE 327, HARNETT COUNTY REGISTRY.

THIS MAP IS PREPARED FOR RECORDING IN ACCORDANCE WITH G.S. 47-30.

ZONING: RA-20R

WATERSHED: WS-III HQ

PARCEL I. D. 098575 0193 (LOT 4)
PARCEL I. D. 098575 0193 01 (LOT 3)

CERTIFICATE OF EXEMPTION

I HEREBY CERTIFY THAT THE PLAT SHOWN HEREON IS EXEMPT FROM THE HARNETT COUNTY SUBDIVISION ORDINANCE BY DEFINITION AND/OR ORDINANCE.

SUBDIVISION ADMINISTRATOR

6-28-09
DATE

FOR REGISTRATION REGISTER OF DEEDS KIMBERLY S. HARGROVE HARNETT COUNTY, NC 2009 AUG 28 09:41:06 AM BK 2009-PG 601-602 FEE $21.00 INSTRUMENT # 2009013414

Map# 2009-601

(1) Fill systems may be installed on sites where at least the first 18 inches below the naturally occurring soil surface consists of soil that is SUITABLE or PROVISIONALLY SUITABLE with respect to soil structure and clay mineralogy, and where organic soils, restrictive horizons, saprolite or rock are not encountered. Further, no soil wetness condition shall exist within the first 12 inches below the naturally occurring soil surface and a groundwater lowering system shall not be used to meet this requirement. Fill systems shall not be utilized on designated wetlands unless the proposed use is specifically approved in writing by the designating agency. The following requirements shall also be met:

(A) Nitrification trenches shall be installed with at least 24 inches separating the trench bottom and any soil horizon UNSUITABLE as to soil structure, clay mineralogy, organic soil, rock or saprolite. However, if a low pressure pipe system is used, the minimum separation distance shall be 18 inches.

(B) Nitrification trenches shall be installed with at least 18 inches separating the trench bottom and any soil wetness condition. This separation requirement for soil wetness conditions may be met with the use of a groundwater lowering system only in Soil Groups I and II, with SUITABLE structure and clay mineralogy. However, if a low pressure pipe system is used, the minimum separation distance shall be 12 inches.

(C) Systems shall be installed only on sites with uniform slopes less than 15 percent. Storm water diversions and subsurface interceptor drains or swales may be required upslope of the system to divert surface runoff or lateral flow from passing over or into the system.

(D) The long-term acceptance rate shall be based on the most hydraulically limiting soil horizon within 18 inches of the naturally occurring soil surface or to a depth one foot below the trench bottom, whichever is deeper. The lowest long-term acceptance rate for the applicable soil group shall be used for systems installed pursuant to this Rule. However, the long-term acceptance rate shall not exceed 1.0 gallons per day per square foot for gravity distribution or 0.5 gallons per day per square foot for low-pressure pipe systems installed on sites with at least 18 inches of Group I soils below the naturally occurring soil surface or to a depth of one foot below the trench bottom, whichever is deeper.

(E) If the fill system uses low-pressure pipe distribution, all the requirements of Paragraph (a) of this Rule, except Paragraph (a)(2)(B), shall apply. Systems with a design daily flow greater than 480 gallons per day shall use low-pressure pipe distribution.

 (F) Fill material shall have such soil texture to be classified as sand or loamy sand (Soil Group I) up to the top of the nitrification trenches. The final six inches of fill used to cover the system shall have a finer texture (such as Group II, III) for the establishment of a vegetative cover. Existing fill material shall have no more than ten percent by volume of fibrous organics, building rubble, or other debris and shall not have discreet layers containing greater than 35 percent of shell fragments.

 (G) Where fill material is added, the fill material and the existing soil shall be mixed to a depth of six inches below the interface. Heavy vegetative cover or organic litter shall be removed before the additional fill material is incorporated.

 (H) The fill system shall be constructed as an elongated berm with the long axis parallel to the ground elevation contours of the slope.

 (I) The side slope of the fill shall not exceed a rise to run ratio of 1:4. However, if the first 18 inches below the naturally occurring soil surface is Group I soil, the side slope of the fill shall not exceed a rise to run ratio of 1:3.

 (J) The outside edge of the nitrification trench shall be located at least five feet horizontally from the top of the side slope.

 (K) The fill system shall be shaped to shed surface water and shall be stabilized with a vegetative cover against erosion.

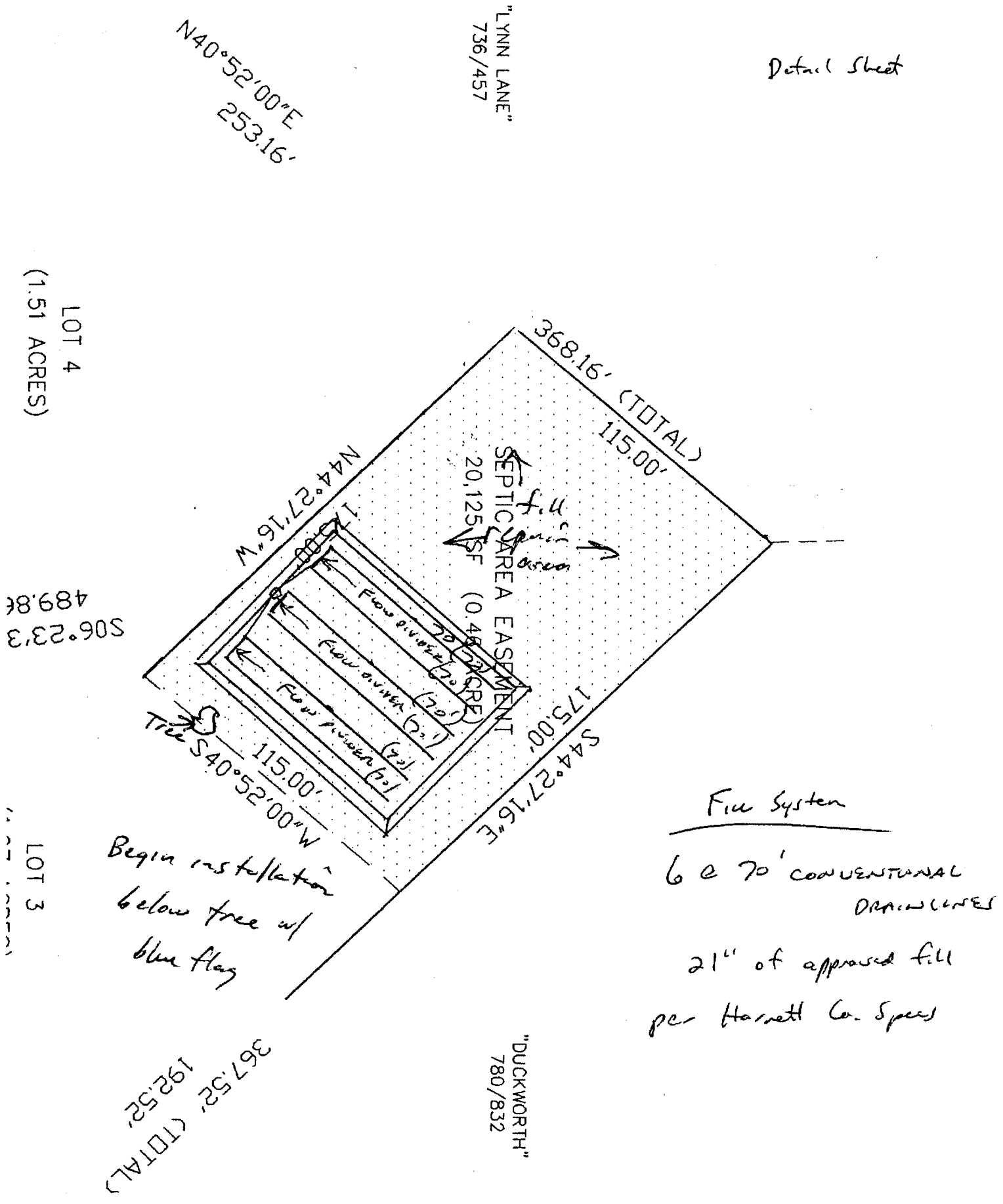
(L) The setback requirements shall be measured from the projected toe of the slope. However, if this setback cannot be met, the setback requirements shall be measured from a point five feet from the nearest edge of the nitrification trench if the following conditions are met:

(i) Slope of the site shall not exceed two percent;

(ii) The first 18 inches of soil beneath the naturally occurring soil surface shall consist of Group I soils;

(iii) The lot or tract of land was recorded on or before December 31, 1989; and

Detail Sheet



Fill System

6 @ 70' CONVENTIONAL DRAIN LINES

21" of approved fill per Harnett Co. Specs

Owner: Wayne Murdison

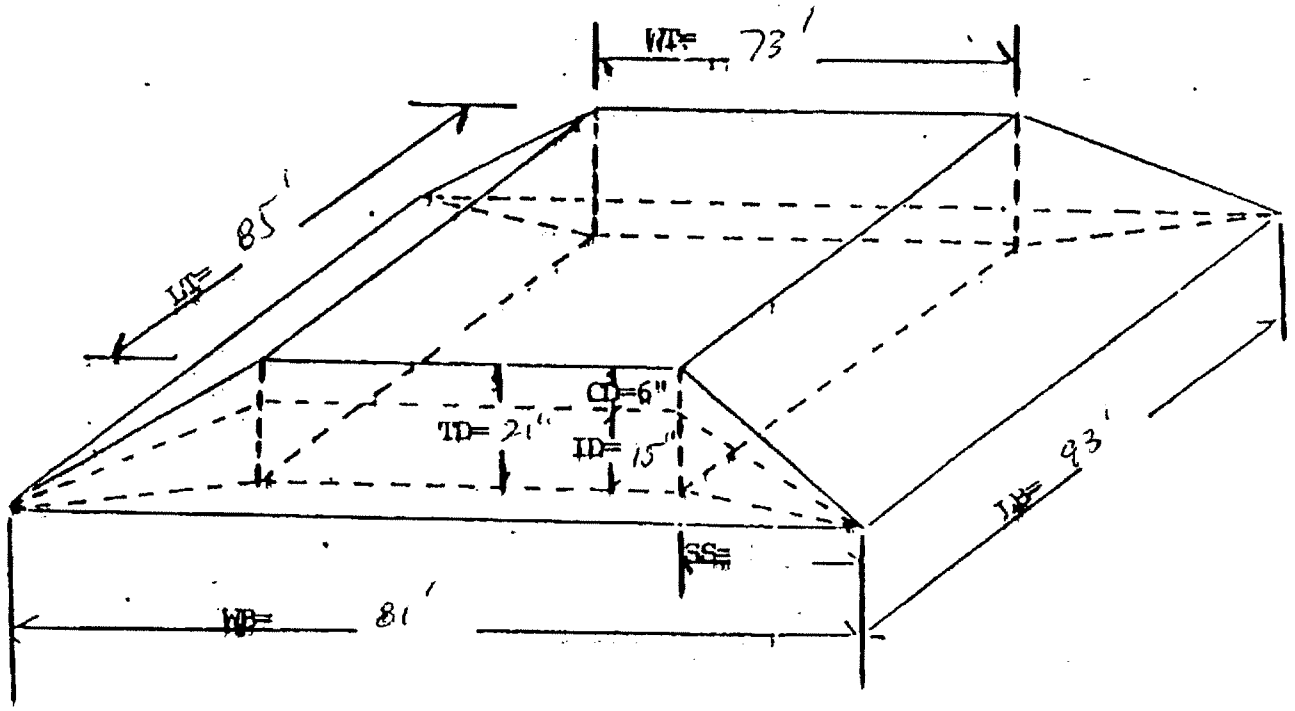
Address: Santee

Location: Line Rd

Plot Plan

See attached

Mound Dimensions



WT = width of top
LT = length of top
WB = width of bottom
LB = length of bottom

SS = side slope
TD = total depth
ID = initial depth
CD = cover depth

Standard Procedure:

1. Fill material shall be applied in two stages:

   a. Initial fill material shall have such soil texture as to be classified as sand or loamy sand (soil Group I) and shall be applied to a depth of (15") which will be level with the top of the nitrification trenches. See ID on Mound Dimension Section.

   b. The final 6" of fill used to cover the system shall be placed on the mound after the system is installed, have a finer texture and be classified as sandy loam, loam, silt, silt loam, sandy clay loam, clay loam or silty clay loam (soil Groups II and III) for the establishment of vegetative cover. See CD on Mound Dimension Section.

2. The fill material and the existing soil shall be mixed to a depth of 6" below the interface.

3. Heavy vegetative cover or organic litter shall be removed before fill material is incorporated.

4. ( ) Proceed nitrification field installation.
   (✓) Inspection of mound prior to installing drainfield.

5. Have inspection approval prior to covering and finish grading.

(*) 6. The fill system shall be shaped to shed surface water and shall be stabilized with a vegetative cover against erosion. This shall be accomplished by placing straw and grass seed on the system after landscaping is completed.

Remarks/Recommendations: As per Harnett Co.

Name: Michael P Baker

Date: 8/24/09

Telephone #: 910 822-4540