


11937 PINNACLE POINT LN

02316420

5/31/2007

duponbj

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

# CERTIFICATE OF COMPLETION/OPERATION PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 5354A DATE: 3/23/04

TC: 023-164-20 ☑ L ☑ CRT

SERIAL 19437

Name of Owner Kenneth Cove Juris.: _____

Address of Property 11937 Pinnacle Point Lane

**Inspection Data:**

Tank Material PCC

Total Length of Drainfield 400

Number of Lines 4 @ 100'

Cover Depth 12"

Water Supply Source Community

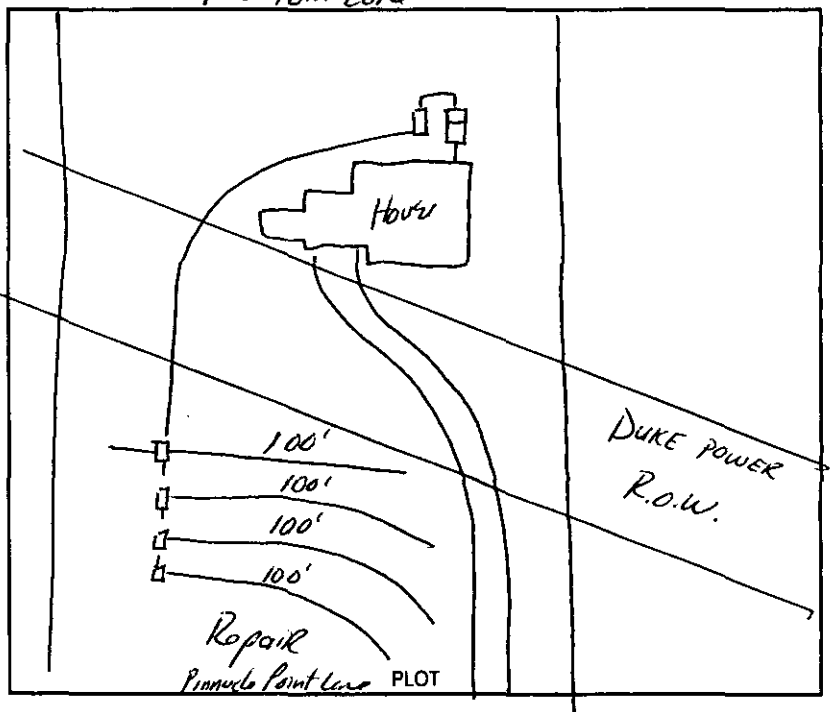
Distance to Water Source 100'

Excavation Inspected 3/23/04

Tank(s) Inspected 3/23/04

Wash Line Inspected —

High Water Alarm Inspected 3/23/04




Design 1500 ST, 1000 DT, PI, CON, 1200 SFT, 12" Stone CTR# Wendell Caldwell

The undersigned has inspected the Septic Tank System described above, and certifies it has been

☒ installed or constructed ☐ altered or repaired

☐ in accordance with the permit issued ☒ as detailed in the plot above

and meets the provisions of 15A NCAC 18A. 1900, "Laws And Rules For Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. This issuance of this

☐ Certificate of Completion ☒ Operation Permit

does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1990 in addition to those listed below under "COMMENTS." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

**Notice:** Disturbance of the designated repair area may result in the suspension/revocation of this permit.

COMMENTS: Three Bedroom House

4 lines x 100' x 3' x 12" Stone w/ Drop Boxes

Type III b Pump to conventional System

Tommy Mecklin R.S.
Environmental Health Specialist

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

# INSTALLATION, CONSTRUCTION, ALTERATION, AND/OR REPAIR APPROVAL

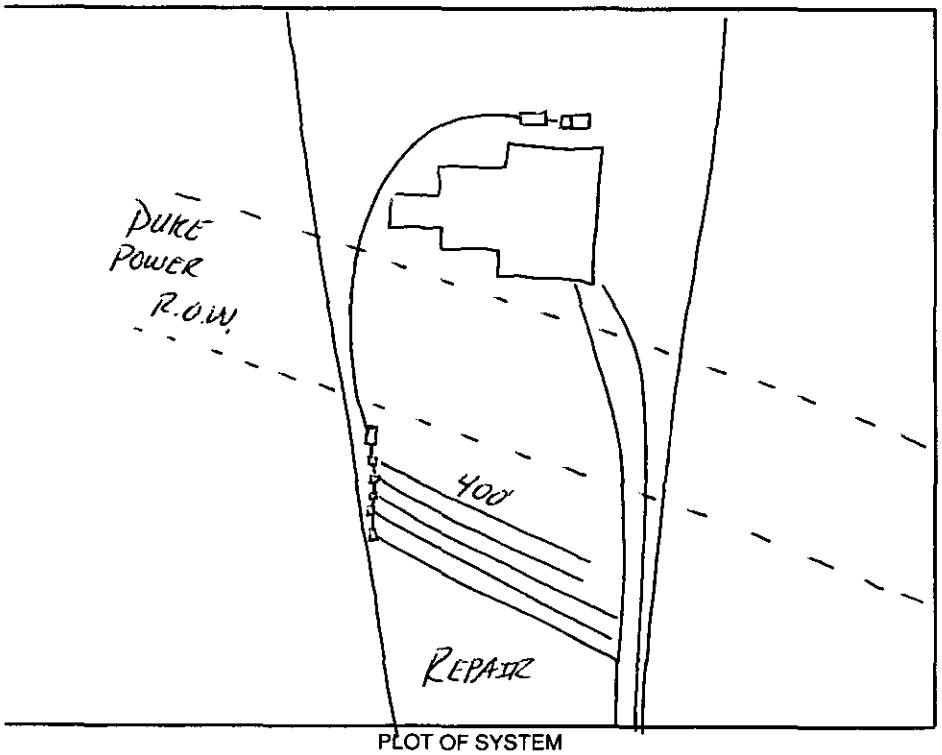
**HEALTH DEPARTMENT**
**ENVIRONMENTAL HEALTH DIVISION**
**700 NORTH TRYON ST., SUITE 211**
**CHARLOTTE, NC 28202**
**PHONE (704) 336-5102**

FILE: 5354A DATE: 2/24/04

TC: 023-164-20 ☑ L

SERIAL 19625

Permission is hereby given to ____ (Install) or Construct, ____ Alter or Repair the individual septic tank wastewater treatment system with subsurface, soil absorption, effluent discharge as specified herein at the described location. This permit is granted based upon the information supplied in the application dated 12/1/03. All work shall be completed on or before 3/24/04, after which date this permit shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of the granting of this permit. A Certificate of Completion or an Operation Permit must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed *will operate properly, or relieve any person now or hereafter owning, controlling or using such system from any liability resulting from* the failure of the system to operate properly.




PLOT OF SYSTEM

Liquid Capacity of Septic Tank 1500 gallons

Liquid Capacity of Dosing Tank 1000 gallons

Tank Construction PCC

Trench Depth 24"

Absorption and/or Nitrification Lines:

Trench Width 3' feet

Trench Walls Scored and Porous yes

Total Line Length 400' feet

Number of Lines varying w/ Drop Boxes

Depth of Stone 12" inches

Distance from House >10' feet

Distance from Property Line >10' feet

Distance from Well >100' feet

NOTICE: This system shall not be installed while soils are in a wet condition.

NAME OF OWNER Kenneth Love

LOCATION OF PROPERTY 11937 Pinnacle Point Lane

Comments: Three Bedroom House

Install 400' at varying lengths with Drop Boxes

Type IIIb Pump to Conventional system

Tommy Mullis R.S.

Environmental Health Specialist

WHITE - HEALTH DEPARTMENT's COPY • CANARY - E.H.S. COPY • PINK - OWNER OR AGENT's COPY

JKA check # 2532 PH63079 LD 3/15/07

**FEE:** 300.00 **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION** AOS 153432
**DATE:** 12-24-03 **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

**DATE:** _____ **PERMIT NO:** 5354A

**PARCEL NO:** 023-164-20

**JOB LOCATION ADDRESS:** 11937 Pinnacle Point Lane
**PROPERTY OWNER:** Kenneth A. Love
**BUILDING CONTRACTOR:** Bobby Hess Construction
**SUBDIVISION NAME:** Mountain Point
**AUTHORIZATION ISSUED BY:** Tony Mitchell R.S. **DATE:** 12/19/03
DEHNR AUTHORIZED AGENT

## AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 5354A, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION, CONSTRUCTION, ALTERATION AND/OR REPAIR APPROVAL MUST BE SECURED **PRIOR** TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. OTHER CONDITIONS: _____

## OWNER CERTIFICATION

I CERTIFY THAT THERE HAVE BEEN NO ALTERATIONS IN SITE OR SOIL CONDITIONS OR MODIFICATIONS TO FACILITY, WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS FROM THOSE SPECIFIED IN THE ORIGINAL APPLICATION OR ASSOCIATED IMPROVEMENT PERMIT UNLESS AUTHORIZED IN WRITING BY THE MECKLENBURG COUNTY HEALTH DEPARTMENT. I ALSO UNDERSTAND THAT ANY SUCH ALTERATIONS, MODIFICATIONS, OR FALSE INFORMATION ARE GROUNDS FOR REVOCATION OF PERMITS AND AUTHORIZATION TO CONSTRUCT.

Kenneth A. Love 12-24-03
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

it Number: 5354A

# CONDITIONS OF IMPROVEMENT PERMIT

Tax Number: 023-164-20

The 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.

| | | | | |
|---|---|---|---|---|
| Basement | ✓ Yes | ___ No | | ___ Partial Basement |
| Type Primary Wastewater System<br>Type (circle one):<br>I II (III) IV V VI | ✓ Conventional<br>___ Prefabricated, permeable block panel system<br>___ Shallow Placed Conventional | ___ Low Pressure Pipe<br>___ Large Diameter Pipe<br>___ Fill<br>___ Other | | ___ Innovative or Experimental:<br>___ IWWS-93-1<br>___ IWWS-93-2<br>___ IWWS-94-1 |

| | | | |
|---|---|---|---|
| 0.3 Long-term acceptance rate | 360 Max gallons/day wastewater flow | 1200 Absorption Area (sq ft) | 9' Trench spacing (min. on centers) |
| NO Serviced by private well | 1500 Gallon septic tank | 400 Total trench length (ft) | 24" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions) |
| 3 Bedrooms in residence | 1000 Gallon pump tank | 12" Depth of stone | |

Any surface waters present: Yes Type: Mountain Island Minimum separation distance: 100'

Site modifications required:

Additional Conditions: Install septic tank + Pump tank before Construction

| | | | | |
|---|---|---|---|---|
| Repair Area System Type<br>Type (circle one):<br>I II (III) IV V VI | ✓ Conventional<br>___ Prefabricated, permeable block panel system<br>___ Shallow Placed Conventional | ___ Low Pressure Pipe<br>___ Large Diameter Pipe<br>___ Fill<br>___ Other | | ___ Innovative or Experimental:<br>___ IWWS-93-1<br>___ IWWS-93-2<br>___ IWWS-94-1 |

| | | | |
|---|---|---|---|
| 1200 Absorption Area (Sq ft)<br>400 Total Trench Length (Ft) | 12" Depth of Stone Trench | 9' Trench spacing (min. on centers) | 24" Maximum Trench Depth |

For existing system, enter the year originally installed:

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. This 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.

Tommy Mickle R.S. 12/19/03
DEHNR Authorized Agent Date

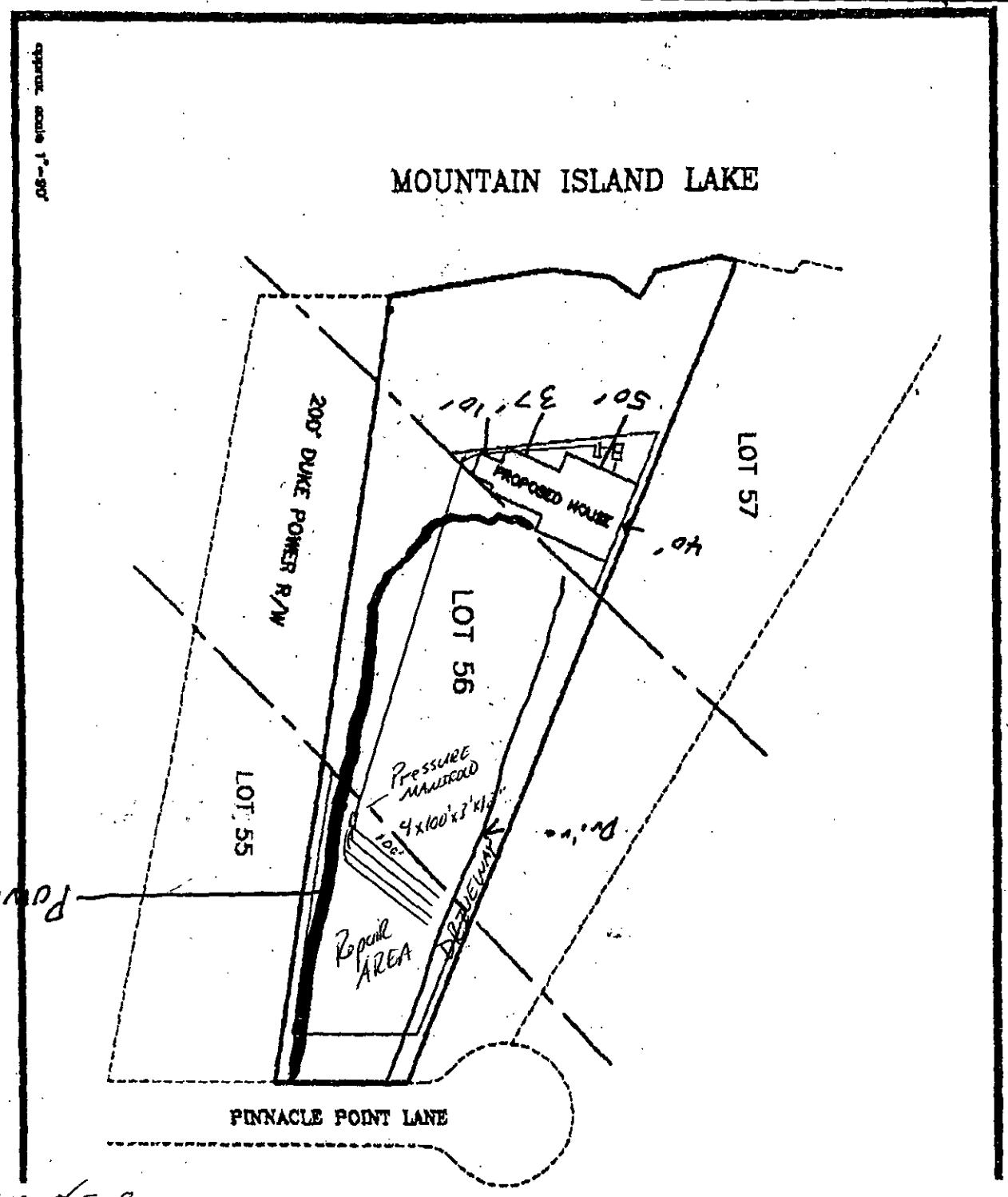
Owner/Agent Signature Date

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

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

5354A

023-164-20




Comments:

→ System designed for a 3 Bedroom House
→ Septic Tank & Pump tank to be installed before House Construction.
→ 1500 gallon septic tank, 1000 gallon Pump Tank
→ Type III b Pump to Conventional System & Repair
→ Install 4 lines x 100' x 3' x 12" Stone
→ Install Pressure Manifold

Thank you

Jimmy Hicks R.S.
12/19/03

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

Sheet: 1
Property ID: 023-164-20
Lot #: 56
File #: 5354A
Code: 2

ACS

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

Owner: Kenneth A. Love
Applicant:
Address: 3326 Paula Circle, Charlotte, N. C., 28216
Date Evaluated: 12/11/2003
Proposed Facility: Residence
Design Flow (.1949): 360gpd
Property Size: 1.75a
Location of Site: 11937 Pinnacle Point 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 | | OTHER PROFILE FACTORS | | | | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1941 Structure/ Texture | 1941 Consistence Mineralogy | 1942 Soil Wetness/ Color | 1943 Soil Depth (IN.) | 1956 Sapro Class | 1944 Restr Horiz | |
| 1 | LS, 8 | 0-4 | GR/SCL | FR/SEXP/SS/SP | >50" TO SOIL WETNESS | 50 | N/A | NONE | PS, IV .3GPD/FT$^2$ |
| | | 4-39 | SBK/C | FI/SEXP/S/P | | | | | |
| | | 39-50 | SBK/SCL | FR/SEXP/SS/SP | | | | | |
| 2 | " | 0-3 | GR/SCL | " | >49" TO SOIL WETNESS | 49 | " | " | " |
| | | 3-12 | SBK/SCL | " | | | | | |
| | | 12-49 | SBK/C | FI/SEXP/S/P | | | | | |
| 3 | LS, 10 | 0-4 | GR/SL | FR/SEXP/NS/NP | >42" TO SOIL WETNESS | 42 | " | " | " |
| | | 4-15 | SBK/SCL | FR/SEXP/SS/SP | | | | | |
| | | 15-24 | SBK/SC | FI/SEXP/S/P | | | | | |
| | | 24-33 | SBK/SCL | FR/SEXP/SS/SP | | | | | |
| | | 33-42 | GR/SL | FR/SEXP/NS/NP | | | | | |
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| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | US | US |
| System Type(s) | | |
| Site LTAR | .3GPD/FT$^2$ | .3GPD/FT$^2$ |

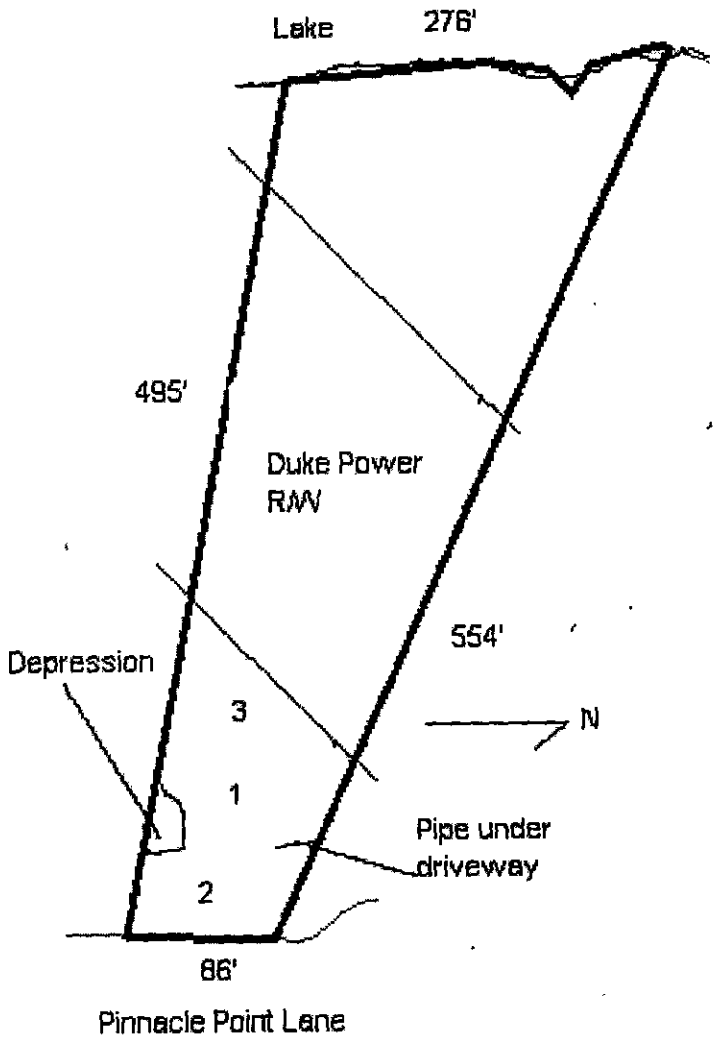
Other Factors (.1946): _____
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 12/12/2003 W. R. Marlin
Others Present:

FILE # 5354A

## COMMENTS: 100% repair, pump to front of lot

| LANDSCAPE POSITIONS | GROUP | TEXTURES | .1955 LTAR | CONSISTENCE MOIST | WET |
|---|---|---|---|---|---|
| R-RIDGE | I | S-SAND | 1.2 - 0.8 | | |
| S-SHOULDER SLOPE | | LS-LOAMY SAND | | VFR-VERY FRIABLE | NS-NON-STICKY |
| L-LINEAR SLOPE | | | | FR-FRIABLE | SS-SLIGHTLY STICKY |
| FS-FOOT SLOPE | II | SL-SANDY LOAM | 0.8 – 0.6 | FI-FIRM | S-STICKY |
| N-NOSE SLOPE | | L-LOAM | | VFI-VERY FIRM | VS-VERY STICKY |
| H-HEAD SLOPE | | | | EFI-EXTREMELY FIRM | NP-NON-PLASTIC |
| CC-CONCLAVE SLOPE | III | SI-SILT- | 0.6 – 0.3 | | SP-SLIGHTLY STICKY |
| CV-CONVEX SLOPE | | SIL-SILT LOAM | | | P-PLASTIC |
| T-TERRACE | | CL-CLAY LOAM | | | VP-VERY PLASTIC |
| FP-FLOOD PLAN | | SCL-SANDY CLAY LOAM | | | |
| | | SICL-SILTY CLAY LOAM | | | |
| | IV | SIC-SILTY CLAY | 0.4 – 0.1 | | |
| | | C-CLAY | | | |
| | | SC-SANDY CLAY | | | |

| STRUCTURE | MINERALOGY |
|---|---|
| SG-SINGLE GRAIN | SLIGHTLY EXPANSIVE |
| M-MASSIVE | |
| CR-CRUMB | EXPANSIVE |
| GR-GRANULAR | |
| SBK-SUBANGULAR BLOCKY | |
| ABK-ANGULAR BLOCKY | |
| PL-PLATY | |
| PR-PRISMATIC | |



FEE: 200.00 CK 2510
DATE: 12/1/03 gc

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

1 1 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 #: [redacted] 3535/A

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: [redacted] 023-164-20

STREET ADDRESS: 11937 Pinnacle Point Lane

SUBDIVISION OR MOBILE HOME PARK NAME: Mountain Point Phase II

LOT NUMBER: 56

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: 5500

NUMBER OF BEDROOMS: 3 NUMBER OF OCCUPANTS: 4

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
EXISTING WASTEWATER SYSTEMS __ YES ✓ NO
EASTMENTS OR RIGHT-OF-WAYS ✓ YES __ NO
WELL, SPRINGS OR WATERLINES __ YES ✓ NO
DESIGNATED WETLANDS __ YES ✓ NO

PROPERTY OWNER:

NAME: Love Kenneth A
(LAST) (FIRST) (MI)

ADDRESS: 3326 Paula Cir,

CITY: Char STATE: N.C. ZIP: 28216

DAYTIME PHONE: 704 361 - 6138

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME:
(LAST) (FIRST) (MI)

DAYTIME PHONE: ( ) —

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 4-1-93

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: Kenneth A. Love DATE: 12-1-03

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

# PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: _____

TC: _____

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.

Kenneth A. Lowe
OWNER/AGENT SIGNATURE

DATE 12-1-03

APPROVAL DATE _____

White - Health Department's Copy  Canary - E.H.S. Copy  Pink - Owner's Copy

**MECKLENBURG COUNTY ENVIRONMENTAL HEALTH**
**SITE EVALUATION REPORT**
**SERIAL NUMBER** 15901

File: 5354A Action 2

Parcel: 02301135 PO ☐ PC

Location: Pinnacle Point Lane

Subdivision:

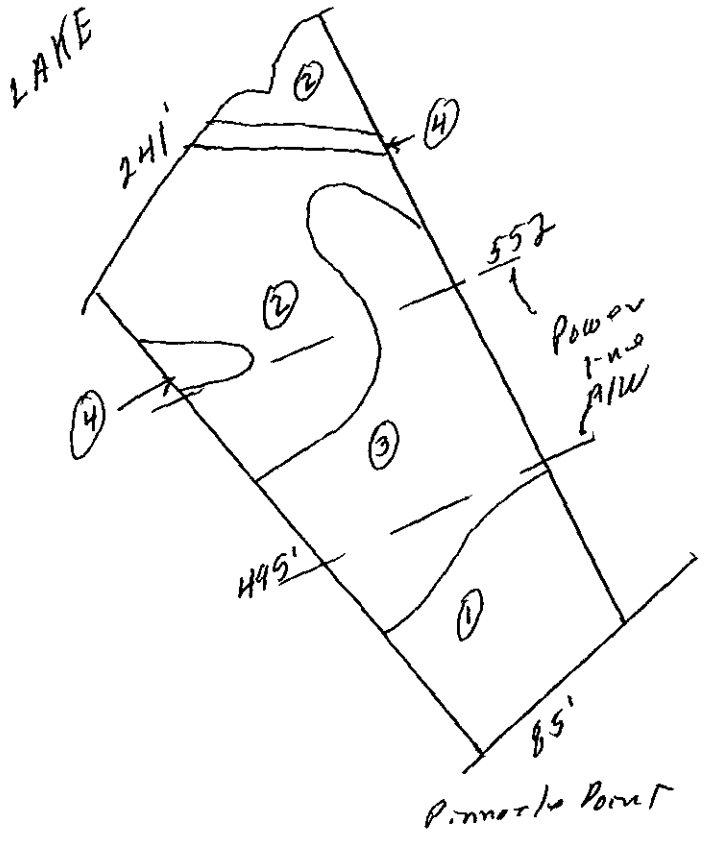
Lot: 56 Block: Acres: 1.76

Owner: Crescent Land & Timber Corp.
Address: 2305 Randolph Road, Suite C
Charlotte, NC 28207

Comments: Recommend system site be approved before lot is closed

Described by: William R. Marlin

Date: 6-5-89




***** EVALUATION KEY *****

S = Suitable U = Unsuitable
PS = Provisionally Suitable
The "Area Classification" below indicates the suitability of areas in the diagram.

| FACTORS | AREA 1 | AREA 2 | AREA 3 | AREA 4 | AREA 5 | AREA 6 |
|---|---|---|---|---|---|---|
| Topography | (S) PS U 6-15% | S (PS) U 15-30% | (S) PS U 6-15% | S PS (U) Depression | S PS (U) Complex Slopes | S PS U |
| Texture | S (PS) U Clay | S (PS) U Clay | S (PS) U Clay | S PS U — | S PS U — | S PS U |
| Structure | S (PS) U Blocky | S (PS) U Blocky | S (PS) U Blocky | S PS U — | S PS U — | S PS U |
| Drainage | S (PS) U >36" To water | S (PS) U >36" To water | S (PS) U >36" To water | S PS U — | S PS U — | S PS U |
| Depth | S (PS) U 36"+ | S PS (U) 12-32" | S PS (U) 14-32" | S PS U — | S PS U — | S PS U |
| Restrictive Horizons | S (PS) U >36" | S (PS) U >36" | S (PS) U >36" | S PS U — | S PS U — | S PS U |
| Available Space | S PS (U) Restricted | S (PS) U | S (PS) U | S PS U | S PS U — | S PS U |
| Other (specify) | S PS U | S PS U | S PS U | S PS U | S PS U | S PS U |
| Soil Group/Series | IVA Cecil-Like | IVA Pacolet-Like | IVA Pacolet-Like | Depression | Complex Slopes | |
| Area Classification | S PS (U) | S PS (U) | S PS (U) | S PS (U) | S PS (U) | S PS U |

# Mecklenburg County
# Health Department

July 10, 1991

Landcraft Properties
2305 Randolph Road
Charlotte, NC 28207

Re: Lot 56 Mt. Point
File: 5354A
Parcel: 023-011-35

Gentlemen:

Receipt of your plans for a modified waste disposal system for the property referenced above is acknowledged.

Your plans for the modified system for the above property as submitted are approved with the following comments:

- Curtain drain and surface birm as per amended layout plan.
- Water saving plumbing devices and low flush toilets should be installed when constructing the residence.
- Occupants to utilize maximum water conservation measures wherever possible.
- Effectively rake and lime all trench sidewalls
- Landscaping of repair area to be undisturbed. No grading, shaping, or altering in anyway.
- Install as part of primary system additional 18 feet of line described as repair line.

Upon execution and recording with the Register of Deeds Division Office, Mecklenburg County, of the enclosed "Septic Tank Agreement Form", an Improvements Permit may be issued by this office.

Sincerely,

Gene Vaughan, R.S., Supervisor
Individual Water and Wastewater Systems

GV/ksm

Enclosures - 3 Septic Tank Agreement Forms

Pd. 6/21/91
Ck.# 462
Amt. = 150.00 $150.00

Date: June 12, 1991

From: T J Systems
P.O. Box 73
Scott, N.C. 28699

7-1-91
Disapproved Tank House placement to be 55+83 1.5 HWL

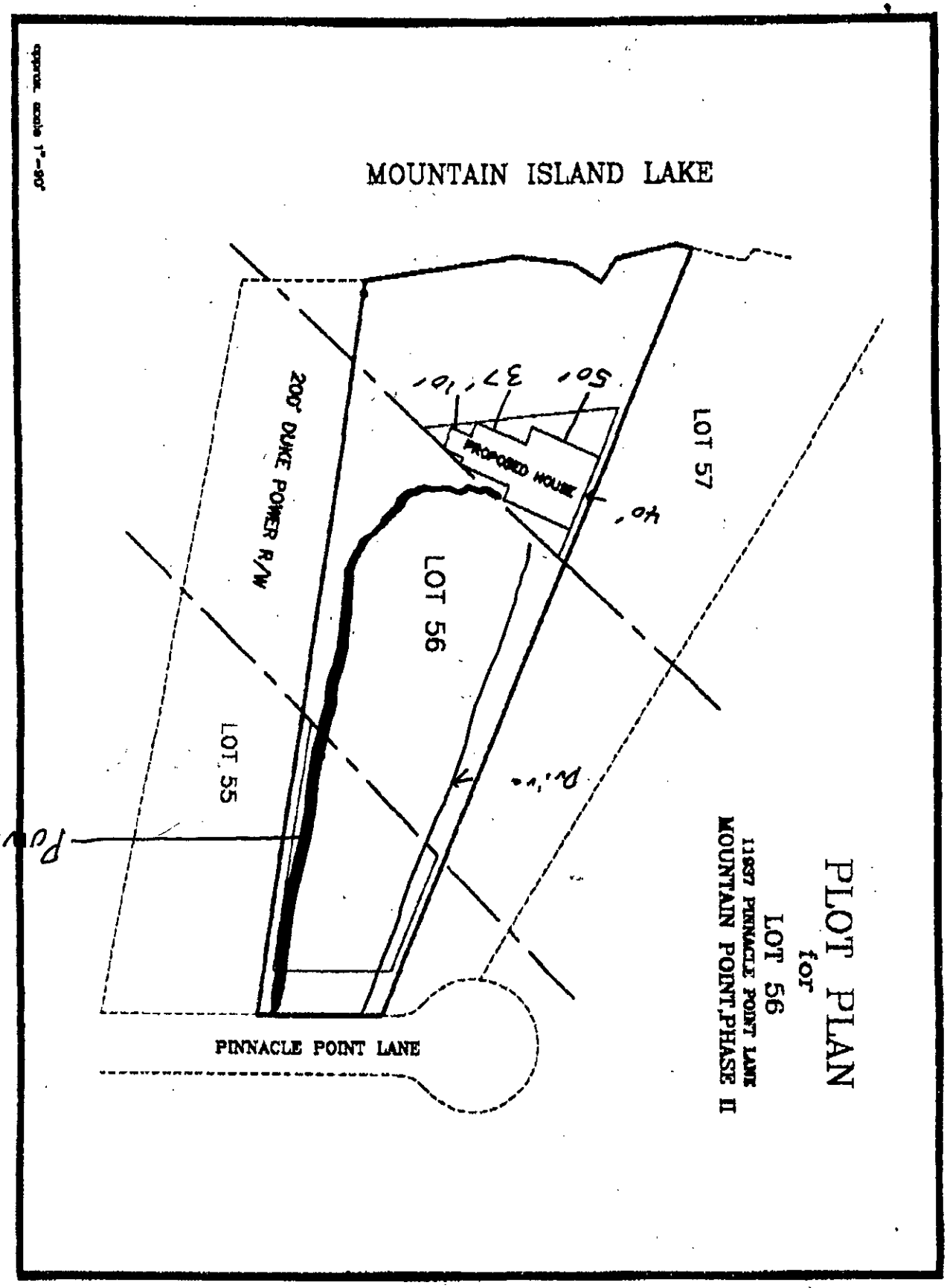
To: Landcraft Properties
2305 Randolph Road
Charlotte, N.C. 28207
Phone 704-

7-2-91
psd Tank House
Sk'd Lemon Inc/Ludge House placement

Subject: Lot 56 Mt. Point Mecklenburg County
File # : 5354A
Parcel : 02301135 PO

System type: 16 inch T & J Panel System with pressure distribution.

This system is designed for a four bedroom house at an application rate of .3 gpd. 480/.3 = 1600/3 = 533 LF of conventional drainfield multiplied by .5 = 267 LF of 16 inch T & J Panel System. This system shall be installed in accordance with all state and local rules and regulations and in compliance manufacturer's installation guidelines. Soil evaluation was supplied by the county.


MOUNTAIN ISLAND LAKE
200' DUKE POWER R/W
LOT 55
LOT 56
LOT 57
PROPOSED HOUSE
50'
37'-10"
PINNACLE POINT LANE
PLOT PLAN
for
LOT 56
11587 PINNACLE POINT LANE
MOUNTAIN POINT PHASE II

Power Line

...BURG COUNTY ENVIRONMENTAL HEALTH
...ALUATION REPORT
SERIAL NUMBER 15901

File: 5354A Action 6

Parcel: 02301135 ... ☐ PC

Location: Pinnacle Point Lane

Subdivision:

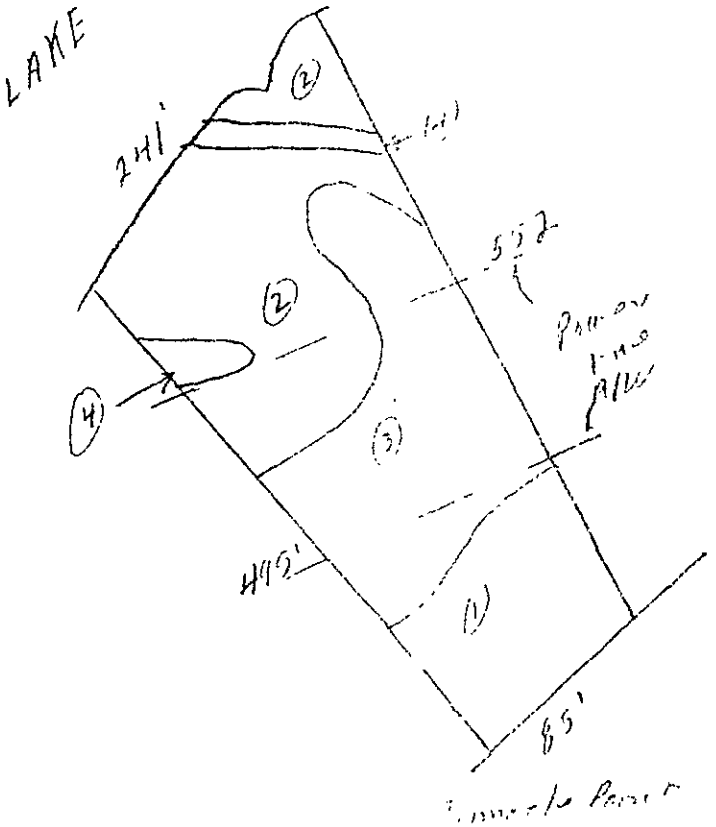
Lot: 56 Block: Acres: 1.76

Owner: Crescent Land & Timber Corp.
Address: 2305 Randolph Road, Suite C
Charlotte, NC 28207

Comments: Recommend system will be approved before Area is closed

Described by: William R. Marks

Date: 6-5-89




*** EVALUATION KEY ***

S = Suitable U = Unsuitable
PS = Provisionally Suitable

The "Area Classification" below indicates the suitability of areas in the diagram.

| FACTORS | AREA 1 | AREA 2 | AREA 3 | AREA 4 | AREA 5 | AREA 6 |
|---|---|---|---|---|---|---|
| Topography | (S) PS U 6-15% | S (PS) U 15-30% | (S) PS U 6-15% | S PS (U) Depression | S PS (U) complex slopes | S PS U |
| Texture | S (PS) U Clay | S (PS) U Clay | S (PS) U Clay | S PS U — | S PS U — | S PS U |
| Structure | S (PS) U Blocky | S (PS) U Blocky | S (PS) U Blocky | S PS U — | S PS U — | S PS U |
| Drainage | S (PS) U >36" To water | S (PS) U >36" To water | S (PS) U >36" To water | S PS U — | S PS U — | S PS U |
| Depth | S (PS) U 36"+ | S PS (U) 12-32" | S PS (U) 14-32" | S PS U — | S PS U — | S PS U |
| Restrictive Horizons | S (PS) U >36" | S (PS) U >36" | S (PS) U >36" | S PS U — | S PS U — | S PS U |
| ailable Space | S PS (U) Restricted | S (PS) U | S (PS) U | S PS U | S PS U — | S PS U |
| r (specify) | S PS U | S PS U | S PS U | S PS U | S PS U | S PS U |
| Group/Series | IVA Cecil-like | IVA Pacolet-like | IVA Pacolet-like | Depression | Complex slopes | |
| Classification | S PS (U) | S PS (U) | S PS (U) | S PS (U) | S PS U | S PS U |

S 78° 22' 25" E
498.39 (TOTAL)
278.04'
POINT
S 52° 20' 33" E
518.59' (TOTAL)
S 39°
TOWER
1945
1949
1946
1947
1918
57
0.57 AC.
59
1.22 AC.
62
0.96 AC.
63
0.91 AC.
C30
C31
C32
C34
M351
S 17°
N 44° 17' 01" W 532.16'
S 54°
N 44° 17' 01" W 447.
392.26'
S 3.5

| Line | # Panel | # Hole Per Panel | Size Hole | Line Head | Line Length | Hole Flow | Per min Line Flow |
|---|---|---|---|---|---|---|---|
| A | 20 | one | 3/16 | 2ft | 87 ' | .59 | 11.80 |
| B | 21 | one | 3/16 | 2ft | 90 ' | .59 | 12.39 |
| C | 21 | one | 3/16 | 2ft | 90 ' | .59 | 12.39 |
| ~~E~~ | ~~repair~~ | ~~cashed~~ | | | ~~18~~ ' | | |
| F | repair | | | | 68 ' | | |
| G | repair | | | | 85 ' | | |
| H | repair | | | | 75 ' | | |
| I | repair | | | | 30 ' | | |
| Totals | ~~82~~ 66 | | | | 267' | | ~~36.58~~ 32.94 |

CALCULATIONS FOR PUMPED SYSTEMS:

Head: Friction loss = 10.22
Total lift = 28.54 (100.30 + 2 - 73.76 = 28.54) elev.
TDH = 38.76
20% margin = 49 ft ( 38.76 / .8 = 48.45 = 49 ft )

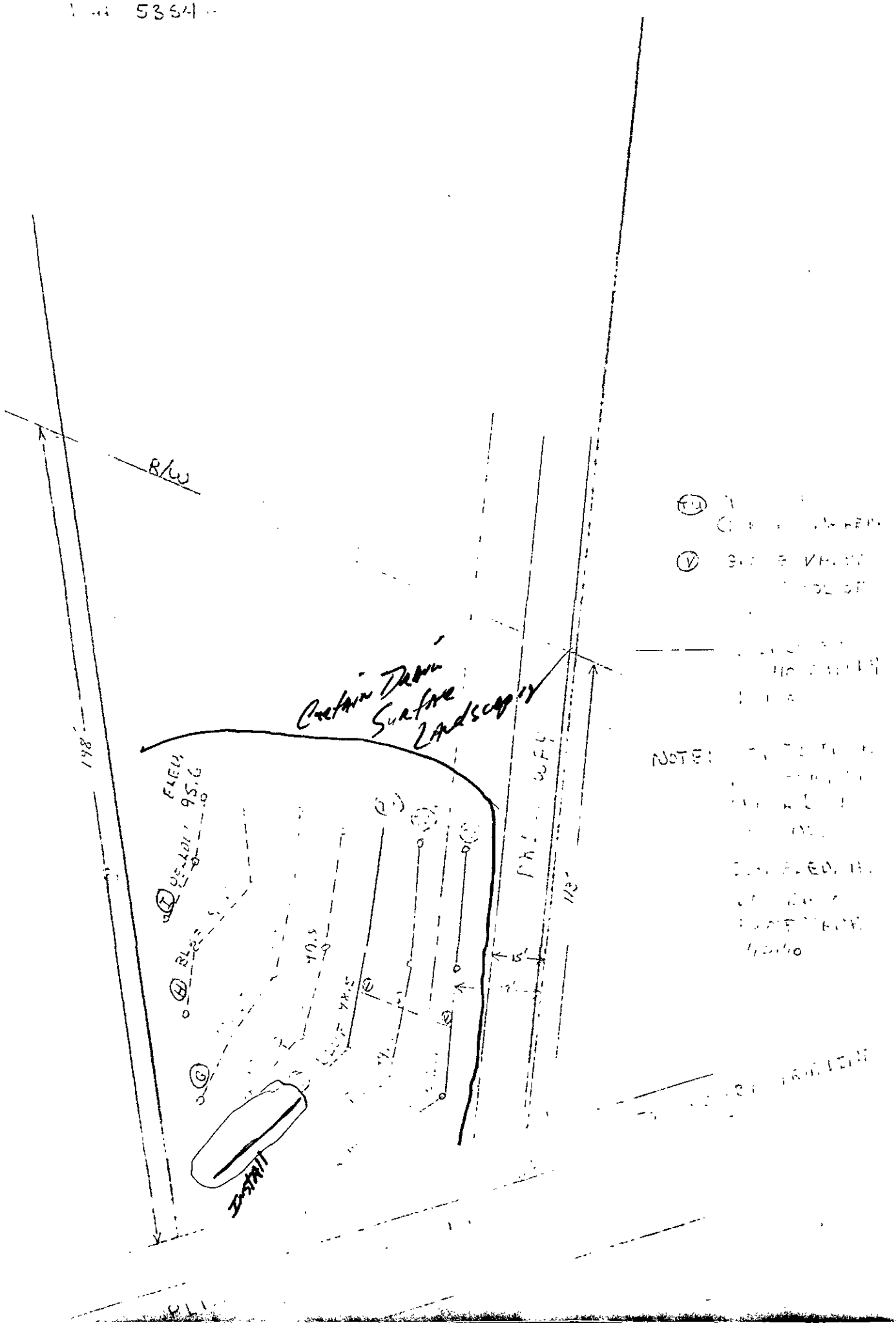
Pump Size: ~~46~~ 49 (~~36.58~~ 38.94/.8) gallon per minute at 49 feet of head.

Pump cycle should be ~~6~~ 6.1 min or ~~223~~ 238 gallons.

Note: Each line shall have a globe valve at the start of the line for pressure adjustment. Valve shall be placed inside a plastic Valve box with a lid at ground surface.
Turn ups shall be cut just below ground surface and covered with a plastic cup and cover. The line shall be capped with a threaded fitting and plug. The ends that are cut off shall be marked as to the line they go to and saved for future system adjustment. Mark valve and turn up with marker as to what valve goes with what turn up.

Friction loss:

| | | | |
|---|---|---|---|
| supply line = | 325 lf = 3.25 * 2.62 | = 8.52 |
| fittings = | 8.52 * .2 | = 1.70 |
| total | | 10.22 |


B/W
198'
Certain Dam
Surface
Landscape
FLEW
95.6
112'
15'
NOTE:

# DESIGN, INSTALLATION AND MAINTENANCE

OF THE

# T & J PANEL WASTEWATER TREATMENT SYSTEM

FOR

## SANITARIANS

AND

## SEPTIC TANK INSTALLERS

Although this manual is sectioned for specific user groups, we at T & J Panel suggest that you familiarize yourself with the complete manual.

# Sanitarians

In the early days of the T & J Panel System, when it was still considered an experimental system, the primary reason for permitting the Panel System was because of insufficient space for a conventional system. Now with inclusion in the Sewage Regulations(10NCAC 10A .1956(3)(a)(ii)), the Panel System should be considered when a quality effluent may be needed, space is limited, usable soil is limited, or there are indications that at some future time, space may be needed for other uses. When there is a trend for added development such as additions to homes, pools, or other special landscaping development the T & J Panel System may prevent insufficient space later. As an example, there was a subdivision where three of five homes in the same block added in-ground pools. Each of these pools impacted the existing nitrification lines. As a sanitarian, if you can foresee such a trend developing, discuss the Panel System with the home owner.

As noted in the regulations, the PPBPS is only permitted where soils are suitable for a conventional system, however, only one-half of the space is needed. The Panel System will allow the use of the best soils on the lot. This system may be gravity fed or pumped using the LP Panel System as described. Most of the concepts for a T & J Panel layout are the same as for a conventional system. The biggest differences are areal area needs and quality of effluent being introduced into the soil.

## Conversion

A three bedroom house with a 0.4 gpd application rate. (First three steps are the same as the conventional line)

1) 120 gallons per bedroom x 3 bedrooms = 360 gallons per day design flow rate.

2) 360 flow rate/0.4 application rate = 900 sq. ft. of trench bottom.

3) 900 sq. ft./3 ft. wide trench = 300 lineal feet of conventional system.

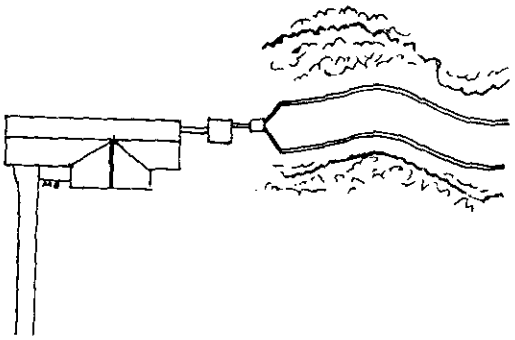
This conventional layout requires 2700 sq. ft. of area on the lot and equal space for repair for a total of 5400 sq. ft. of suitable and usable area. To calculate the T & J Panel System size, the above calculations must be made with an additional fourth step as described in 10NCAC 10A .1956 (3)(a)(ii)(B) for a PPBPS (the T & J Panel System)

4) 300 lineal feet of conventional system x 0.5 for a 16 inch high Panel System = 150 lineal feet of T & J Panel trench.

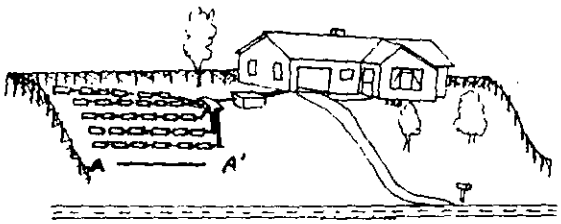
A Panel System requires only a 1200 sq. ft area on the lot for the system and equal area for repair. With the Panel System the installation and repair can go into the same space as the initial area required by a conventional gravel trench system.

## Window Effect

Areal space should always be a consideration for any system, however, it is especially notable with the Panel System as with any system that reduces the size of the areal area drainfield. The following is a simplistic example of this concept.



RIGHT

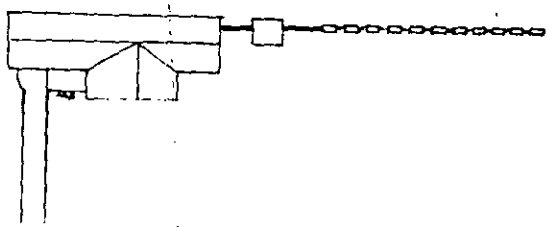



WRONG

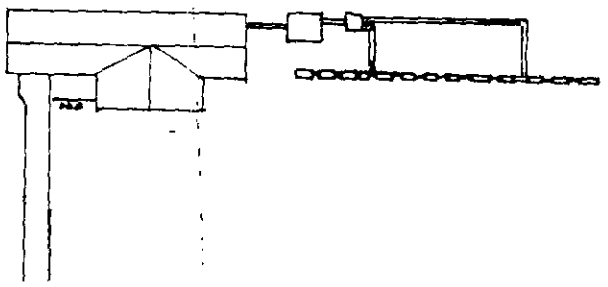
While both systems have the same lineal footage of trench the lower diagram is not a desireable design. The effluent must pass through the area A-A' which can cause a strain on that area and even a failure because of hydraulic overloading.

## Distribution

Another extreme would be the use of a long single trench fed from only one end. In the first example, below the areal space is good and the chance of hydraulic overloading is greatly reduced. However downline distribution in the panel line will not give optimum treatment.



WRONG



RIGHT

In the lower example we see that the trench has been feed from multiple points. Because the Panel lines are put in as level as possible, never exceeding 1/4 inch of fall in 10 feet of run, they feed both ways equally. T & J recommends that no gravity line exceed 50 feet, unless it is fed from multiple points. In both of these examples, we are specifying the Panel System, but the logic applies to the conventional system as well.

COUNTY HEALTH DEPARTMENT

(SEPTIC TANK) IMPROVEMENTS PERMIT AND CERTIFICATE OF COMPLETION
(Ground Absorption Sewage Disposal System -- G. S. Chapter 130-A-Article 11)

OWNER OR CONTRACTOR _____ DATE _____ PERMIT NO. _____

PHONE: Business _____ Home _____

LOCATION _____

_____ S. R. No. _____

SUBDIVISION NAME _____ LOT NO. _____ SECTION OR BLOCK NO. _____

House (✓) Mobile Home ( ) Business ( ) Other _____

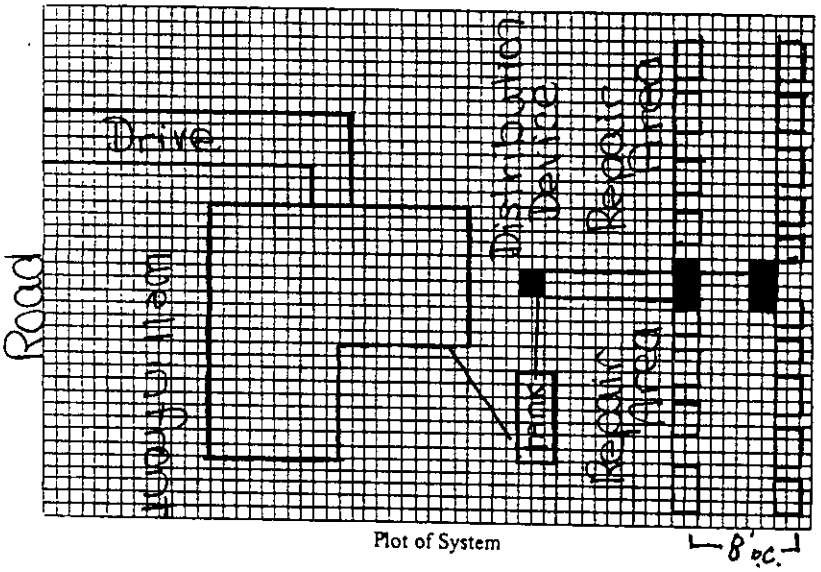
No. Bedrooms 3 No. Bathrooms 2 1/2

Garbage Disposal Unit N/A Yes ( ) No ( )
Auto. Dishwasher Yes (✓) No ( )
Auto. Wash. Machine Yes (✓) No ( )
Site Suitable Yes (✓) No ( )

Lot Area _____

Character & Porosity of Soil clay loam over clay
Percolation Rate 0.4 gal/ft²/day
Topography 6% slope
Depth to Water Table > 60"
Rock or other impervious formations none

_____ Basement with Plumbing _____ Basement without Plumbing ✓ No Basement



Plot of System

Size of Tank 1000 Gals.
Nitrification Field:
No. of Lines (2) 75' lines of
Sq. Ft. 900 Linear Ft. 150 panels
Depth of Stone in Lines 24" of sand
Water Supply: Individual (✓)
Public ( )

Installed by _____

I understand and agree to install septic tank system as specified on this Improvements Permit.

Signed: _____

IMPROVEMENTS PERMIT BY _____

COMMENTS: 2 lines with 17 panels each line. flow split by flow divider. 2' wide and 75' long each split in middle by D-box. 25 tons sand

CERTIFICATE OF COMPLETION BY _____ DATE _____

EXISTING SYSTEM CHECKED BY: _____ DATE _____

CONSTRUCTION MUST COMPLY WITH ALL OTHER APPLICABLE STATE AND LOCAL REGULATIONS.

Permit is VOID if any unauthorized changes are made in installation of system and/or if any false information is supplied in making Improvements Permit.

Health Dept. Copy: White Inspection Dept. Copy: Yellow Sanitarian's Copy: Pink Owner's Copy: Gold

COUNTY HEALTH DEPARTMENT

(SEPTIC TANK) IMPROVEMENTS PERMIT AND CERTIFICATE OF COMPLETION
(Ground Absorption Sewage Disposal System -- G. S. Chapter 130-A-Article 11)

OWNER OR CONTRACTOR _____ DATE _____ PERMIT NO. _____

PHONE: Business _____ Home _____

LOCATION _____

_____ S. R. No. _____

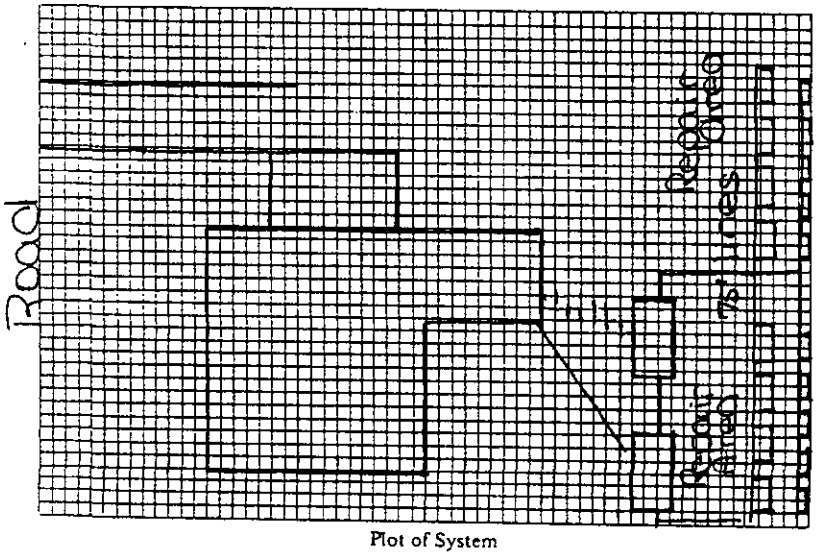
SUBDIVISION NAME _____ LOT NO. _____ SECTION OR BLOCK NO. _____

House (✓) Mobile Home ( ) Business ( ) Other _____

No. Bedrooms 3 No. Bathrooms 2 1/2
Garbage Disposal Unit N/A Yes ( ) No ( )
Auto. Dishwasher Yes (✓) No ( )
Auto. Wash. Machine Yes (✓) No ( )
Site Suitable Yes (✓) No ( )
Lot Area 20,000

Character & Porosity of Soil clay loam over clay
Percolation Rate 0.4 gal/ft²/day
Topography 60% slope
Depth to Water Table >60"
Rock or other impervious formations _____

_____ Basement with Plumbing _____ Basement without Plumbing ✓ No Basement Pressure Distribution



Plot of System

Size of Tank 1,000 septic / 1000 pump Gals.
Nitrification Field:
No. of Lines 3 (35') lines of Tuf
Sq. Ft. 900 Linear Ft. 150
Depth of Stone in Lines 24" sand
Water Supply: Individual ( )
Public ( )

Installed by _____

I understand and agree to install septic tank system as specified on this Improvements Permit.

Signed: _____

IMPROVEMENTS PERMIT BY _____

COMMENTS: pump sized by head 2-4' at turn up

CERTIFICATE OF COMPLETION BY _____ DATE _____

EXISTING SYSTEM CHECKED BY: _____ DATE _____

CONSTRUCTION MUST COMPLY WITH ALL OTHER APPLICABLE STATE AND LOCAL REGULATIONS.

Permit is VOID if any unauthorized changes are made in installation of system and/or if any false information is supplied in making Improvements Permit.

Health Dept. Copy: White Inspection Dept. Copy: Yellow Sanitarian's Copy: Pink Owner's Copy: Gold

## How Many Panels Do You Need?

To calculate the number of 16 inch high panels needed for a 150 foot line, multiply 150'x 12" = 1800" then divide by 52" which is 46 inches for the panel and 6 inches for the space between the panels in the trench. 1800" /52" = 34.6 panels, so you would call for 34 panels. (A material order chart is included in the installer section of this manual.) If there is to be more than one trench, the sizing of the lines should be as equal as possible with as close to the same number of panels in each trench as is practical. A permit will normally show the panel as small blocks on the line. The following two pages are sample copies of permits for Panel systems.

## Gravity or Pressure

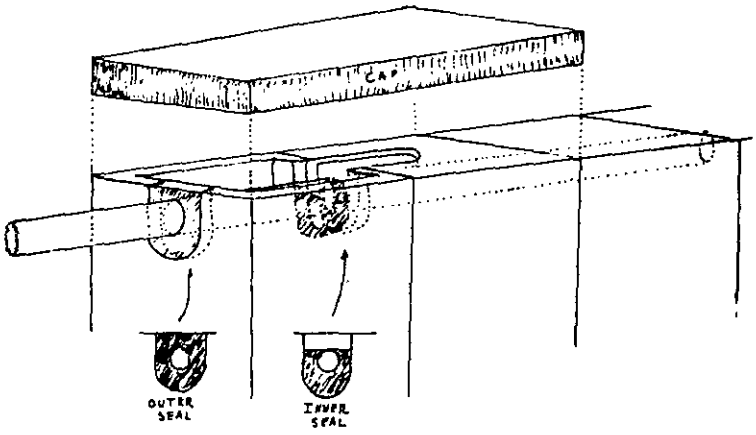
The T & J Panel System can be installed as either gravity or a low pressure distribution system. When designing a pressure system the principles of low pressure distribution are as described in the LPP manual. There is further discussion on pressure systems in the installer section of this manual. One of the attached permits is for a LP Panel drainfield.

## Backfill

Backfill sand shall be a clean, washed, medium sand that is naturally occurring and falls within the gradation of ASTM C-33 specification. This specification is one that is used in the ready mix industry and is readily available in all areas. The second type of sand that you will need is a clean particle sand to coat the bottom of each panel's top chamber with a bed of sand one inch thick. This sand is a medium grade of sand blasting sand. Each one hundred pound bag should cover eight panels. Backfill sand calculations should be taken from the material sheet.

## Tar Seals

The two drawings below illustrate the inner and outer seal. Note that while the outer seal is a complete seal, the inner seal is only up to the top of the connecting pipe. This is to allow for over flow of the effluent at peak use periods into the lower air chambers. At this point the air chambers become additional storage chambers for the effluent.



## Trench Preparation

Trench grade should be established so that backfill cover will be four to six inches over the tops of the panels. (Note on severe slopes system depth should be adjusted to protect against brakeout of effluent) In clay type soils the trench side walls should be raked to bring slicked over areas back as near to original structure as possible. A light dusting of lime on the side walls is required to promote the soil structure.

## Final Inspection

The following list of points are things that an inspector should look for before issuing an completion permit.

1) Is depth of the panels within guidelines?

2) Are drain lines level or less than 1/4 inch fall in ten feet?

3) Have seals been properly constructed?

4) Was the proper sand used in the trench backfill?

5) If in clay type soils were the side walls raked and limed?

(For Pumped Systems)

6) Have pump size, head pressure, and dose cycle been properly sized and set?

(Set dose cycle for 3.6 gallons per 16 inch high panel.)

# Installer

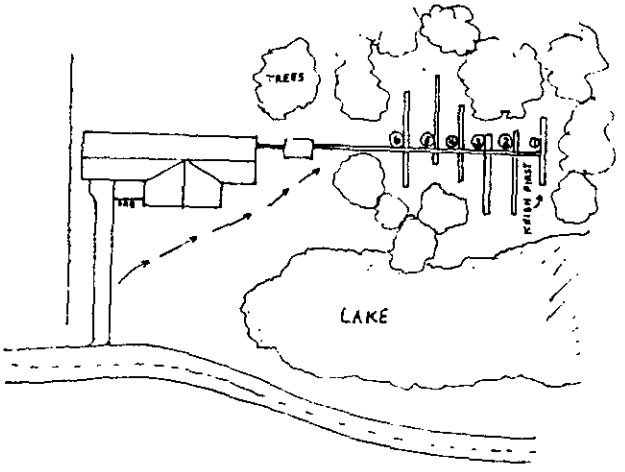
Generally, on level open land, a Panel System can be installed in about the same time as a conventional system; however, traditionally, Panel Systems have been installed where space and topography have restricted use of a conventional system. For this reason Panel System installations have required more time. Many installers enjoy the change of working with panels, not handling gravel, and the satisfaction of knowing a system is being installed where previously a conventional system was not possible.

## Ordering Materials

Enclosed on following two pages you will find an order sheet for the T & J Panel System and a materials chart for 16 inch high Panel System. The distributor in your area will lead you through these sheets when ordering or pricing the system. For information on the distributor located closest to you call 1-800-222-2577 (inside N.C.) or 704-872-9566. After ordering, your panels will be shipped to the job site banded together on pallets.

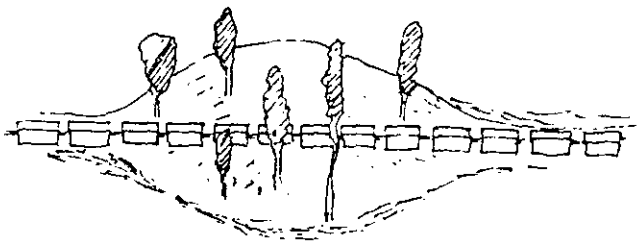
## Installation Tips

Installation for multiple line systems should begin in the most confining area and be worked to the more open areas.

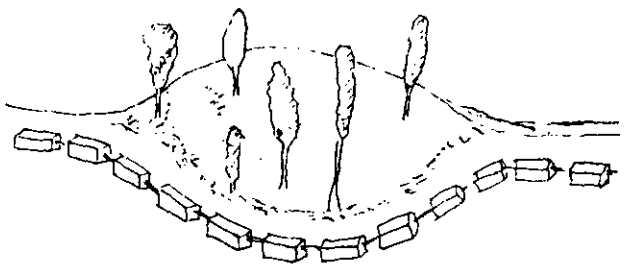



Above is an example of a multiple line installation. As you can see the installation should begin with the line marked 1 and proceed to 2, 3, then 4. This procedure will greatly ease material handling and backfilling. (Note sections of the drainlines should be left uncovered to allow for inspection of lines when area is confined and return access to lines is limited.)

On the following page are two examples of drain lines on sloping lots. The first drawing shows the drainline going through a slope making the center of the line deeper in the ground. This is not a desirable situation. The second drawing shows the drainline going around the slope keeping the trench depth and cover uniform for the entire length of the line. On slopes care should be given to avoid cutting away valuable top soil in an effort to make straight lines. Panel lines can be curved to almost any degree.



Wrong



Right

## Digging The Trench

Start by shooting the grade and marking the contour. Then for a 16 inch panel add 28 inches to the shallowest or lowest grade that the trench must cross to obtain the trench bottom grade. Now dig the trench at the elevation derived, checking the grade frequently. The trench should be a minimum of two feet wide. With the trench open all sidewalls shall be raked to bring smeared areas back to their original structure before a light dusting of lime is applied. Now place a 6 inch layer of backfill sand in the trench and level to grade, then place a 1 x 4 or 6 inch board flat on it's side on top of the 6 inch layer of sand. Once more check the grade of the trench by shooting the top of the board. Once the grade boards have been set, the panels may be set into the ditch by hand or using the backhoe. Each panel weights about 155 pounds and placement by hand goes quickly. The panels should be placed about 6 inches apart in the trench to obtain equal spacing. Now place 10 to 12 pounds of clean particle sand (medium sand blasting sand) in the top chamber of each panel to form a bed of sand about one inch thick. Tar seal rope should be placed in the U outs to form seals as shown in earlier drawings. Once the tar rope is in place, a 24 inch section of two inch PR160 pipe is cut to span from the upper middle top chamber of the first panel to the upper middle chamber of the next panel. The tar seal rope that is used should be of tar or butyl that is soft and pliable to obtain a water tight seal. Now that the connection and sealing is complete a block cap is placed on each end of the panel covering all openings.(These will be delivered with the panels.) The cap block may well serve as an inspection port at some future date. The trench is ready to be backfilled to the top of the panel with the same backfill sand used in the trench bottom. With the sand to the top of the panel, trenches should be left for the sanitarian to inspect. Soil cover should be added after the final inspection.

Most Panel Systems are currently used due to space considerations and caution should be taken to preserve suitable soil structure and site conditions.

## Materials Chart For 16 Inch Panels

Materials needed per panel:

- Three feet of half inch tar seal rope per panel.
- Two feet of two inch PR160 pipe per panel or same linear feet as line layout of pressure system of one and a quarter inch pipe. Add pipe for tie in of lines to tank and house.
- One hundred pounds of partical sand (sand blasting sand fine texture) per eight panels.
- Same linear feet of one by six boards as line length.
- Bag powder lime when in clay soils.

Panel and C-33 Sand fill

50 LF - 11 panels
8¼ tons sand

60 LF - 14 panels
10 tons sand

70 LF - 16 panels
11½ tons sand

80 LF - 18 panels
13¼ tons sand

90 LF - 21 panels
15 tons sand

100 LF - 23 panels
16½ tons sand

110 LF - 25 panels
18¼ tons sand

120 LF - 27 panels
20 tons sand

130 LF - 30 panels
21½ tons sand

140 LF - 32 panels
23 tons sand

150 LF - 34 panels
25 tons sand

160 LF - 37 panels
26½ tons sand

170 LF - 39 panels
28 tons sand

180 LF - 41 panels
30 tons sand

190 LF - 43 panels
31½ tons sand

200 LF - 46 panels
33 tons sand

# T & J Panel Material Worksheet

Homeowner _____ County _____

Address _____

_____

Description of System _____

_____

_____

| | | |
|---|---|---|
| _____ | T & J Panels _____ Inch (caps N/C) | _____ |
| _____ | 2" Pipe | _____ |
| _____ | 1 1/4" Pipe | _____ |
| _____ | Fittings for Pipe | _____ |
| _____ | Tar Seal Rope (3' per Panel) | _____ |
| _____ | Bag Partical Sand (100 lbs per 8 Panels) | _____ |
| _____ | Pallets (Returnable) | _____ |
| _____ | Screened Creek Sand (FM 2.3 to 3.0) | _____ |
| _____ | 1x4 or 1x6 Boards | _____ |
| _____ | Power Lime | _____ |
| _____ | Sep Tank _____ Gallon | _____ |
| _____ | Tar Seal for Tank | _____ |
| _____ | 4" PVC Pipe Schedule 40 | _____ |
| _____ | Distrobution Box | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| | Sub-total | _____ |
| | Delivery Charge | _____ |
| | Tax | _____ |
| | Total | _____ |

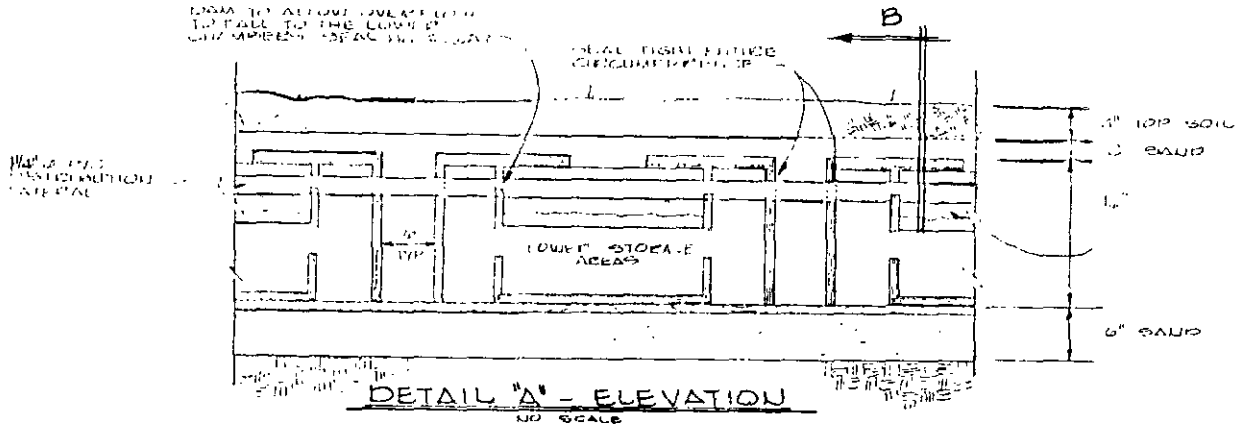
# Panels With Pressure Distribution



The LP Panel uses Technology similar to that of Low Pressure Pipe (LPP) System. The tables and distribution design described in the LPP manual are applicable to the pressure Panel System. The system should be used with two to four feet of head. In many respects an LP Panel is similar to an LPP with the holes discharging into the panels.

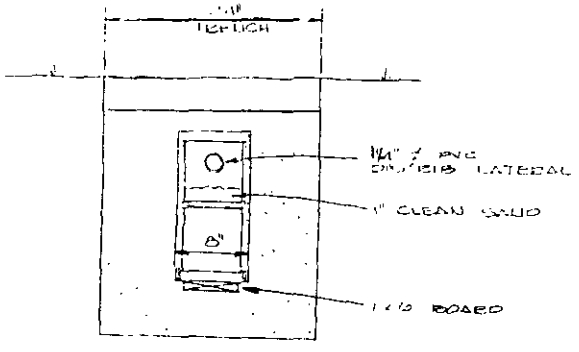
The dosing cycle for the Panel System is designed to pump enough effluent to fill the top chambers of all the panels in the system. The top chamber of a 16 inch panel holds 3.6 gallons. When the system has 34 panels and all the holes are the same size, then you would multiply 34 X 3.6 to get 122 gallon per dose cycle. The holes are drilled in the distribution pipe at the 10 and the 2 o'clock position. These are then placed so that the effluent is pumped into the top center chamber of the panel. If the hole sizing changes then the pump cycle is set by the hole that is discharging the fastest.

All valves and turn ups should be neatly capped, covered, and labled for future service. Pump tanks should be constructed as shown in drawing as to allow for service and or repairs.




DETAIL "A" - ELEVATION

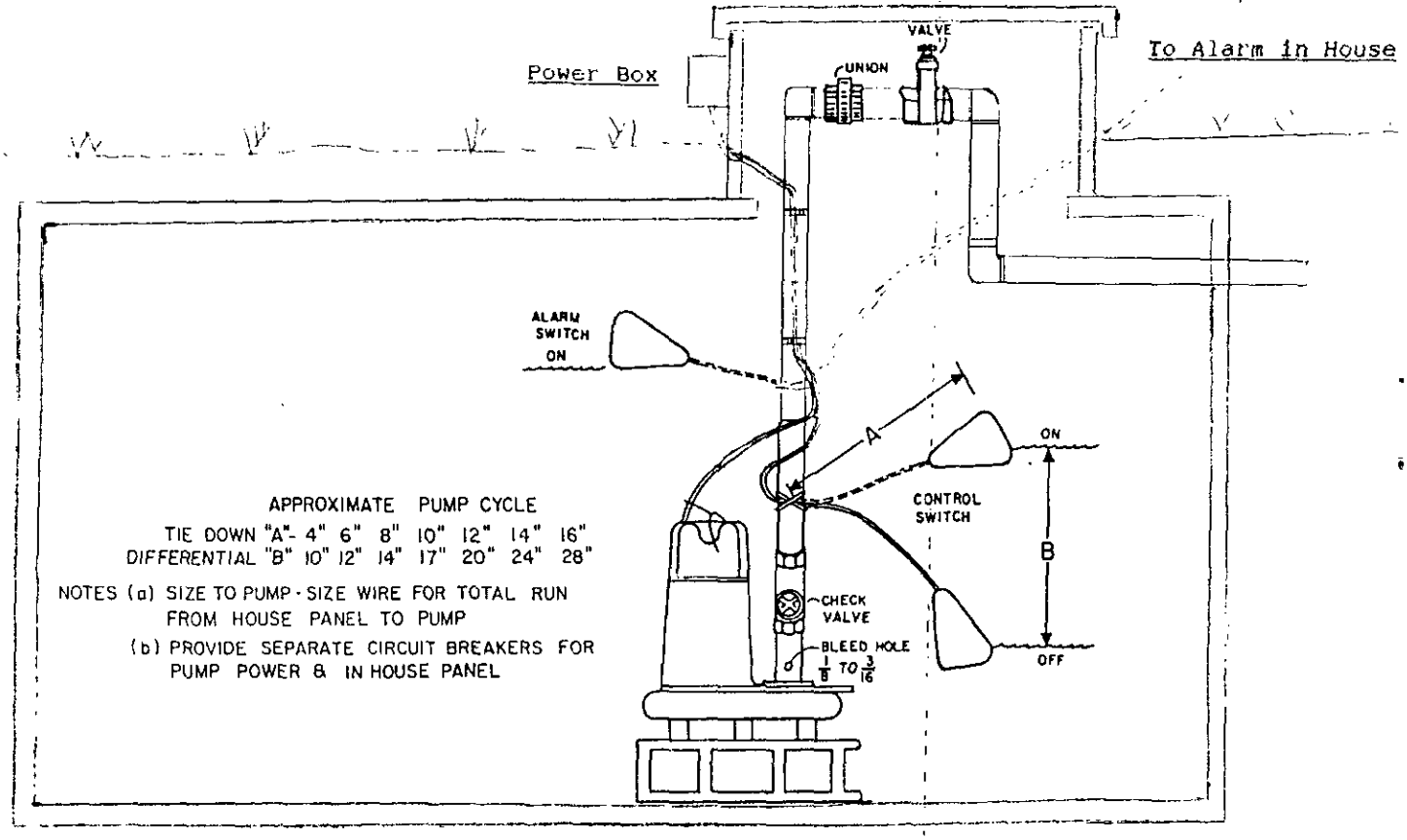
NO SCALE



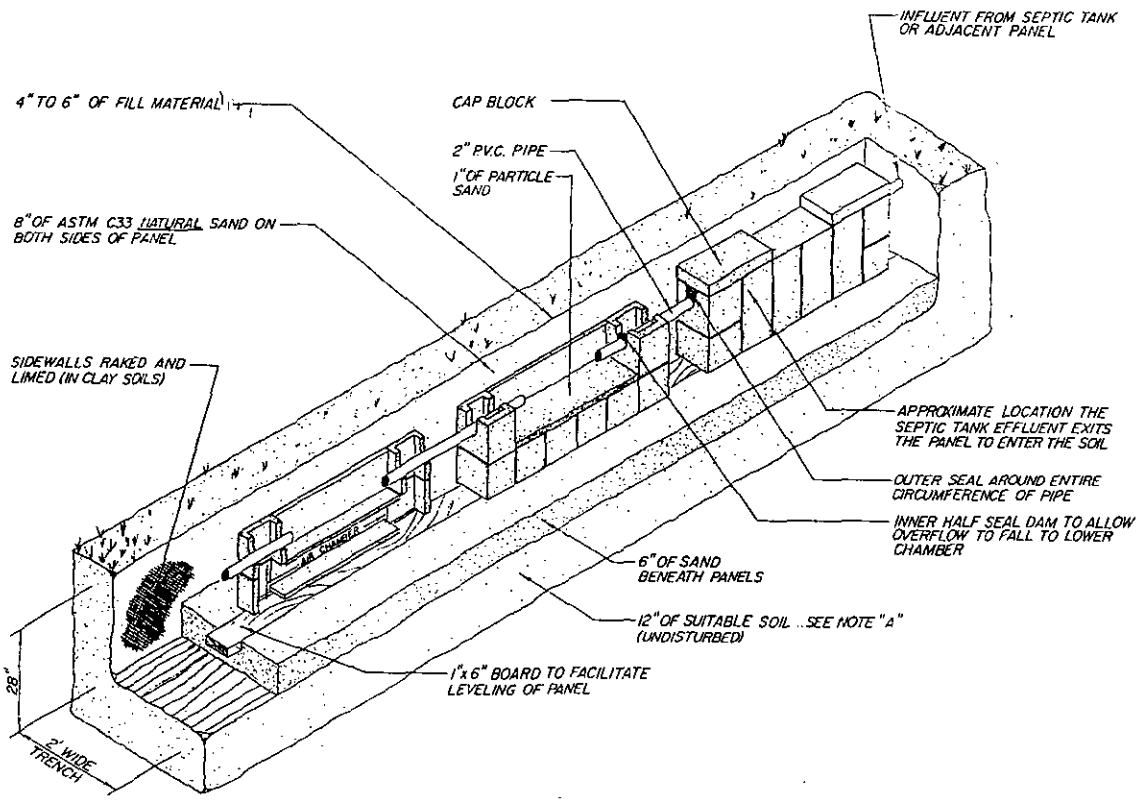

DETAIL "B" - SECTION

NO SCALE

# Pump Tank Drawing

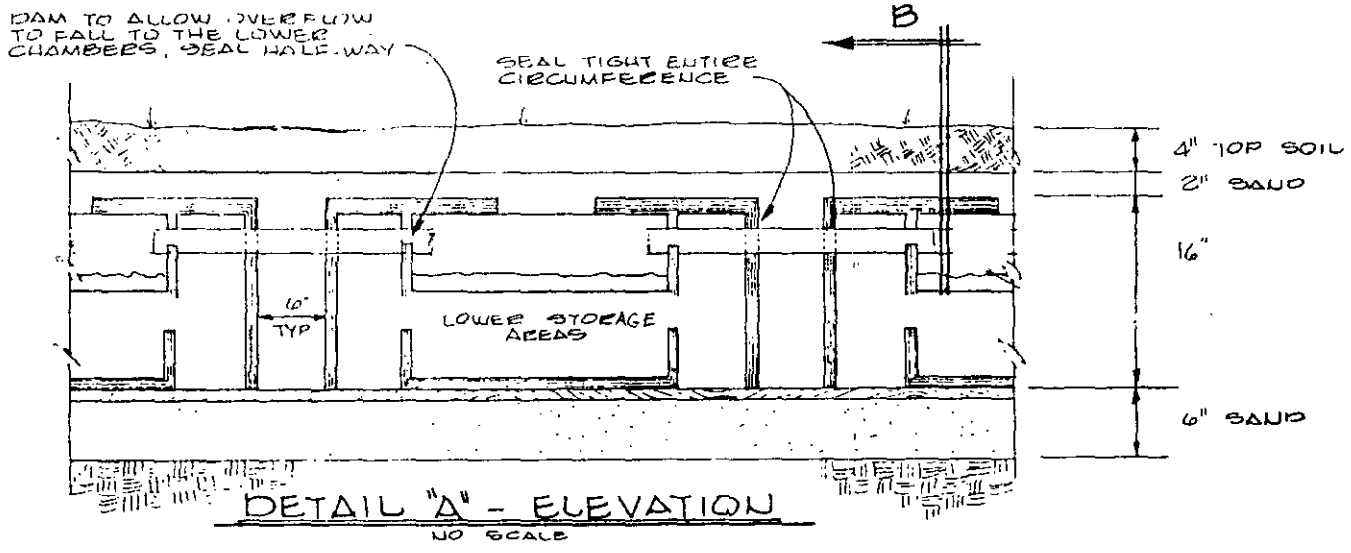


# Isometric Drawing of a Segment of 16" T&J Panel Drainfield

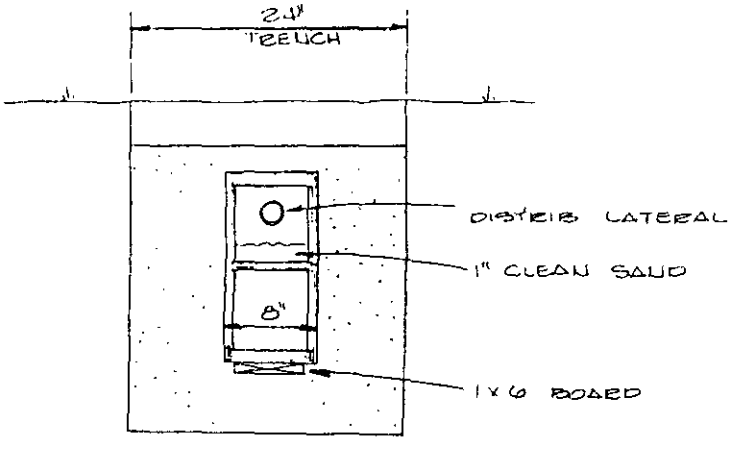


# THE T. & J. PANEL
## WASTE WATER TREATMENT SYSTEM
*PATENT NUMBER 4013559*

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




DETAIL "A" - ELEVATION
NO SCALE




DETAIL "B" - SECTION
NO SCALE

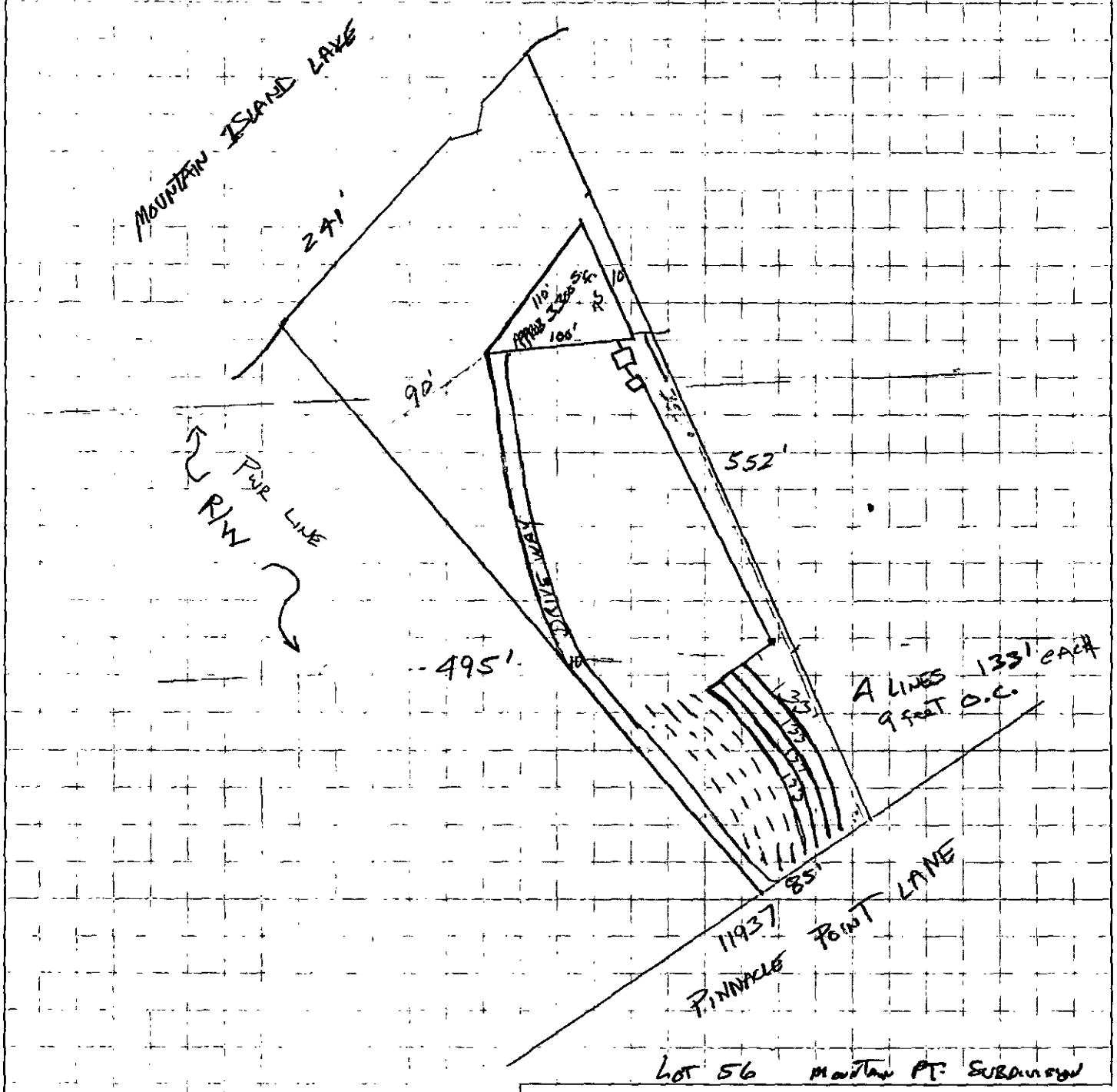
# PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

FILE: 5354A

TC: _____

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries, proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.




Signed: Marshall Hovell

Date: 6-23-89

DATE: 6/26/89

TO: HEALTH DEPARTMENT - ENVIRONMENTAL HEALTH

FROM: COUNTY ENGINEERING

EHD FILE _____ JURISDICTION CODE Meck

PARCEL NUMBER 023-101-03pp

ASSIGNED ADDRESS 11937 Pinnacle Point Ln.

EXISTING ADDRESS Lot 56

PROJECT NAME Mountain Point Ph2

THE ABOVE DESCRIBED LOCATION HAS BEEN CHECKED CONCERNING:

| | APPROVED | NOT APPROVED |
|---|---|---|
| 1. SUBDIVISION REGULATIONS | ☐ | ☐ * |
| 2. FLOODWAY REGULATIONS | ☐ | ☐ * |
| 3. EROSION CONTROL REGULATIONS | ☐ | ☐ * |
| 4. COMMERCIAL DRAINAGE PLAN | ☐ | ☐ * |
| | **PRESENT** | **NOT PRESENT** |
| 5. PUBLIC UTILITY EASEMENT | ☐ * | ☐ |
| | **YES** | **NO** |
| 6. PROPERTY FRONTS ON THOROUGHFARE | ☐ * | ☐ |
| | **YES** | **NO** |
| 7. DRIVEWAY PERMIT REQUIRED | ☐ * | ☐ |

*** If checked, further investigation will be required to determine whether a building permit may be issued by Building Standards for the site.**

REMARKS: Septic Tank

**NOTE: THIS FORM MUST BE TURNED IN AT THE CASHIERS OFFICE AT BUILDING STANDARDS WHEN PAYING PERMIT FEES.**
**A CERTIFICATE OF OCCUPANCY WILL NOT BE GRANTED UNTIL THE TRANSPORTATION DIVISION GRANTS FINAL APPROVAL ON DRIVEWAY(S).**

SIGNED: _____

OPWEAR 02/86

# APPLICATION FOR AN IMPROVEMENT PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

(OFFICE USE ONLY)
FILE: 5354A
TC:
SERIAL: No 18542

Ave fee 5335A for Chuck Dup

☐ L ☐ CRT

**JOB LOCATION**

① ADDRESS: 11937 (STREET NO.) PINNACLE POINT LANE (STREET) ② FILE: 5354A
③ JURISDICTION: MECK ④ TAX PARCEL NO.: 023 01 135 PO
⑤ SUBDIVISION: MOUNTAIN POINT ⑥ LOT: 56 ⑦ BLOCK:

**OWNER**

⑧ NAME: Crescent Land and Timber Corporation (FIRST) (MIDDLE) (LAST)
⑨ MAILING ADDRESS: c/o Marshall Howell, 2305 Randolph Road, Suite C
⑩ CITY: Charlotte ⑪ STATE: N.C. ⑫ ZIP: 28207
⑬ PHONE: (WORK) 332-9340 ⑭ (HOME) 372-9070

**REQUEST**

This request is for a(n):

⑮ ☒ New permit
⑯ ☐ Repair or alteration permit
⑰ ☐ Authorization for mobile home exchange
⑱ ☐ Other (specify)

**DESIGN CRITERIA**

System will serve:

⑲ ☒ Residence ⑳ ☐ Mobile home ㉑ ☐ Business or place of public assembly
㉒ Number of bedrooms? 4 ㉕ Type?
㉓ Maximum occupancy? 7 ㉖ Maximum number of employees?
㉔ Basement? ☐ yes ☒ no ㉗ Maximum number of seats?

**WATER SUPPLY**

㉘ Water supply from (present or proposed):

A ☐ Individual well
B ☐ Municipal system
C ☒ Community well
D ☐ Community system

㉙ The undersigned, 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 on the property for the purpose of processing this request.

Signed: Miles J Boyer
Date: 22 June 89

## IMPROVEMENT PERMIT

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws And Rules For Sanitary Sewage Collection, 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 permit is issued by this Department.

... This permit is not transferable, and shall become null and void 36 months from the date of issuance.

Environmentalist / Date

Director or Authorized Section Head / Date

*This permit must be signed by the Director of Mecklenburg County Health Department or an authorized section head in order to be valid.

# Mecklenburg County
## Health Department

Basil G. Deltas, M.D., M.P.H.
Health Director


June 6th, 1989

Crescent Land & Timber Corp.
2305 Randolph Road, Suite C
Charlotte, NC 28207

RE: Property located at Pinnacle Point Lane 56
FILE: 5354A
PARCEL: 02301135 PO

Dear Sir:

At your request, a field investigation was conducted on the property designated above for the purpose of determining site suitability for the installation of a ground absorption sewage disposal system. The results of this investigation showed the property to be classified UNSUITABLE for the installation of such a system. A copy of the Site Evaluation Report (Serial Number 15901) is enclosed.

State regulations provide that sites originally classified unsuitable may be utilized for the installation of alternate or modified sewage disposal systems provided the requirements of 10 NCAC 10A .1948 (c) are met. A reprint of this section is enclosed for your information.

Should you desire to file for permission to install an alternate or modified sewage treatment system on the property, please submit an Application For An Improvement Permit with an ACCURATELY dimensioned plot plan detailing the location of current and/or proposed buildings, wells and sewage disposal systems to this office. They will be reviewed, and if it is determined that the proposed system may reasonably be expected to function satisfactorily, an Improvement Permit will be issued by the Department upon completion by you, of a formal request for lot reclassification.

If I may be of any assistance, please feel free to call.

Very truly yours,

Jim Ericson, R.S., Supervisor
On Premises Waste Disposal & Water Supply

Enclosure (2)


Environmental Health Division
1200 Blythe Boulevard • Charlotte, North Carolina 28203 • (704) 376-4603

# APPLICATION FOR SOIL INVESTIGATION

6c

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

(OFFICE USE ONLY)

FILE: 5354A

TC: _____

☐ PC ☐ REPT

**JOB LOCATION**

① ADDRESS: Pinnacle Point Lane

② SUBDIVISION: Mountain Point Ph. 2 ③ LOT: 56 ④ BLOCK: _____

⑤ PARCEL REFERENCE: BOOK NO.: 023 PAGE NO.: 13 PARCEL NO.: _____

⑥ DEED REFERENCE: BOOK NO.: 436 426 (LMI-90) PAGE NO.: 204 354

**OWNER**

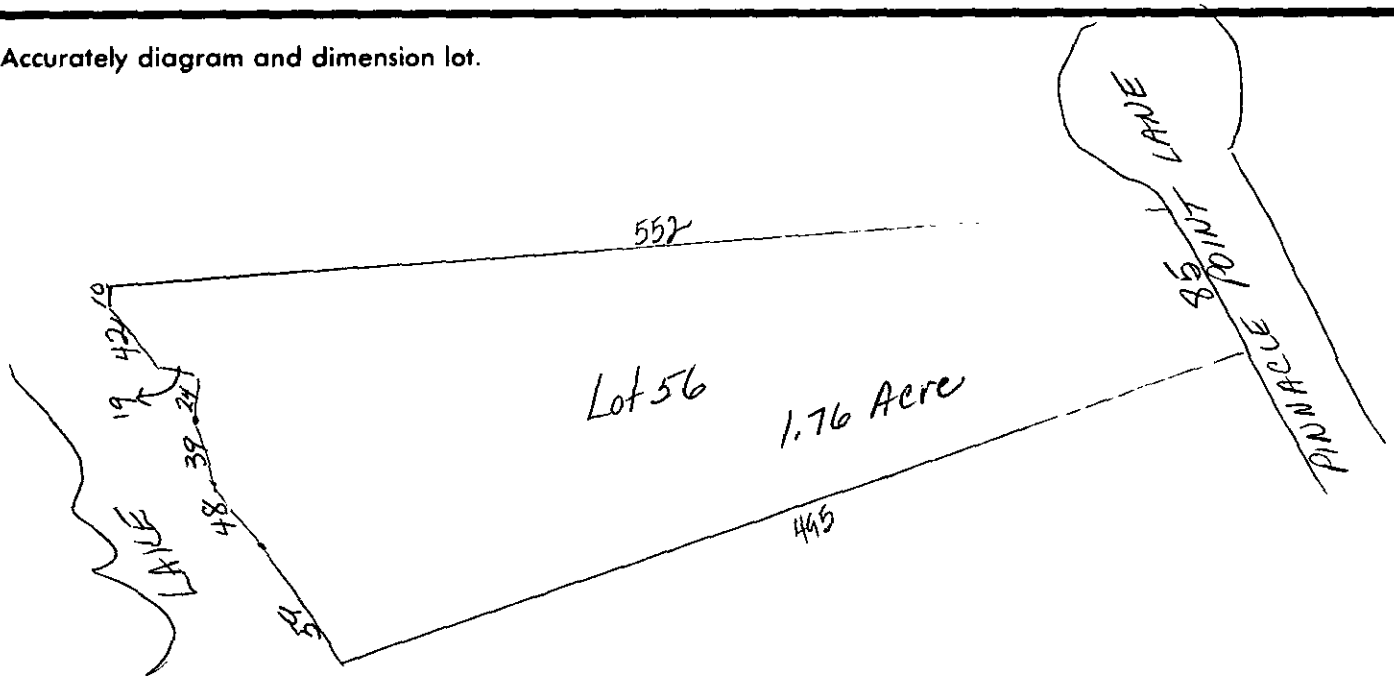
⑦ NAME: Crescent Land & Timber Corp. (c/o Lana Hathaway, LandCraft Properties)
(FIRST) (MIDDLE) (LAST)

⑧ MAILING ADDRESS: 2305 Randolph Road, Suite C

⑨ CITY: Charlotte, ⑩ STATE: N.C. ⑪ ZIP: 28207

⑫ PHONE: (WORK) (704) 332-9340 (HOME) (704) 892-9811

⑬ Accurately diagram and dimension lot.




⑭ The undersigned, 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: Ethelene G Williams

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

Date: March 23, 1989

WHITE - HEALTH DEPARTMENT'S COPY • CANARY - ENVIRONMENTALIST'S COPY • PINK - OWNER'S COPY

# APPLICATION FOR SOIL INVESTIGATION

MECKLENBURG COUNTY · ENVIRONMENTAL HEALTH

1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

(OFFICE USE ONLY)

ENVIRONMENTAL HEALTH DIVISION
PAID
JAN 11 1989
$45.

FILE: 5354A

TC: _____

☐ PC ☐ REPT

**JOB LOCATION**

① ADDRESS: Pinnacle Point Lane

② SUBDIVISION: Mountain Point Ph. 2 ③ LOT: 56 ④ BLOCK: _____

⑤ PARCEL REFERENCE: BOOK NO.: 023 PAGE NO.: 13 PARCEL NO.: _____

⑥ DEED REFERENCE: BOOK NO.: 436, 426 (LMI-90) PAGE NO.: 204, 354

**OWNER**

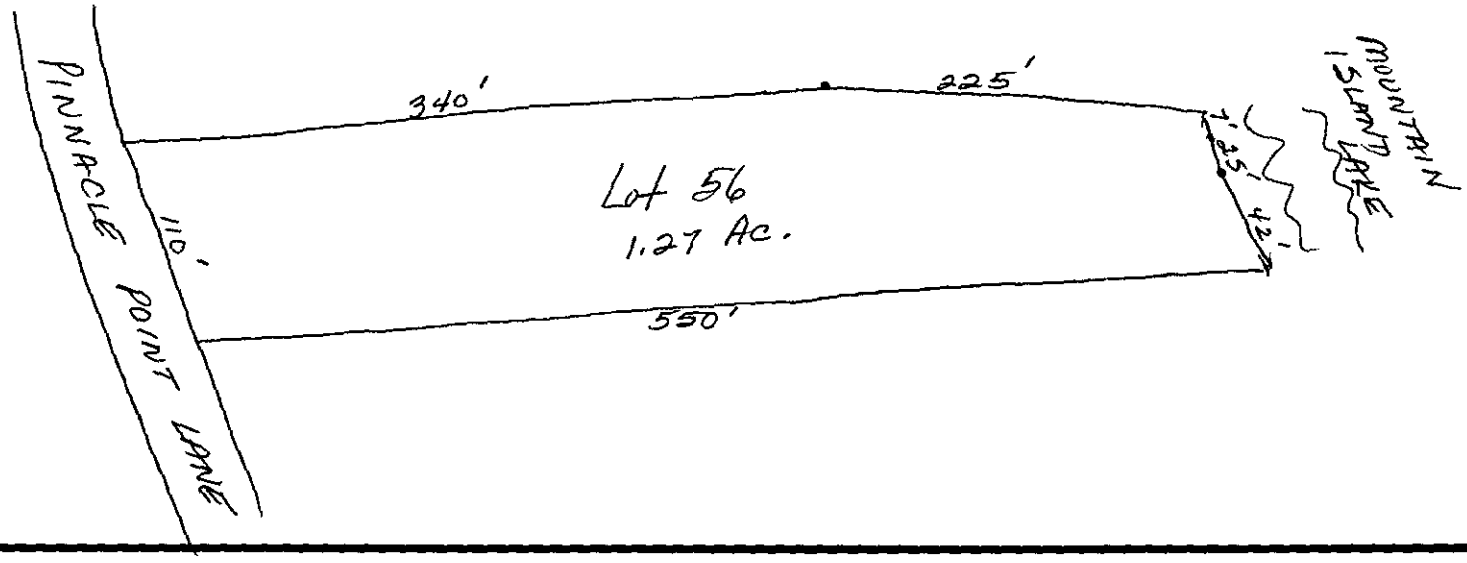
⑦ NAME: Crescent Land & Timber Corp. (c/o Lana Hathaway)
(FIRST) (MIDDLE) (LAST)

⑧ MAILING ADDRESS: 2305 Randolph Road, Suite C

⑨ CITY: Charlotte ⑩ STATE: N.C. ⑪ ZIP: 28207

⑫ PHONE: (WORK) (704) 332-9340 (HOME) (704) 892-9811

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⑭ The undersigned, 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 DEPARTMENT OF ENVIRONMENTAL HEALTH to enter onto the property for the purpose of processing this request.

Signed: Miles J Bryan, V.P.

Date: 1/11/89

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

WHITE - ENVIRONMENTAL HEALTH DEPARTMENT'S COPY ● CANARY - ENVIRONMENTALIST'S COPY ● PINK - OWNER'S COPY